

CAC

Technical Data Book

CAC Inverter (50Hz)

SAMSUNG



CAC

CAC Technical Data Book

Contents

I. Products

1	Nomenclature	8
2	Line-up	12
3	Accessory	14

II. Specifications

1	Slim 1 way cassette	19
2	Mini 4 way cassette	27
3	4 way cassette S	47
4	Slim duct	83
5	MSP (Middle static pressure) duct	93
6	Console	115
7	Ceiling	127
8	Neo forte	137
9	Outdoor units	149

III. Installation

1	Space requirements	180
2	Electric specifications	181
3	Wiring works	182
4	Refrigerant piping works	185
5	Option switches & function keys	190
6	High ceiling option (4Way cassette S only)	193
7	Setting an indoor unit address & installation option	194
8	Error code	201



Products

I. Products

1	Nomenclature	8
2	Line-up	12
3	Accessory.....	14

1 Nomenclature

1-1. Indoor/Outdoor unit

Old Model Name



① Classification I

S	Slim 1 way	Cassette Type
C	4 way	
T	Mini 4 way	
E	Slim	Duct Type
D	MSP	
F	Ceiling	Convertible Type
J	Console	
U	Universal	Outdoor Unit

② Mode

H	H/P (Heat Pump)
---	-----------------

③ Capacity

x 1/10 kW (3 digits)

④ Rating Voltage

E	1Ø, 220~240V, 50Hz
G	3Ø, 380~415V, 50Hz

⑤ Refrigerant

X	R410A
---	-------

⑥ Classification II

V	Inverter
S	Inverter (Residential)

⑦ Version

1-2. Indoor Unit

New Model Name

AC	N	026	N	D	E	H	A	/	000
①	②	③	④	⑤	⑥	⑦	⑧		Buyer

① Classification I

AC	CAC
----	-----

② Classification II

N	Indoor
---	--------

③ Capacity

x 1/10 kW (3 digits)

④ Product Notation I

1	1 way	Cassette Type
2	2 way	
N	Mini 4 way	
4	4 way	

⑤ Product Notation II

F	Flagship	Indoor
P	Premium	
D	Deluxe	
S	Standard	

⑥ Rating Voltage

E	1Ø, 220~240V, 50Hz
G	3Ø, 380~415V, 50Hz

⑦ Mode & Refrigerant

H	Heat Pump (R410A)
---	-------------------

⑦ Version

A	Basic model (Not NASA)
B	Derivation model (NASA)

1 Nomenclature

1-2. Indoor Unit

Old Model Name



① Classification

NS	CAC (Single)
----	--------------

② Capacity

x 1/10 kW (3 digits)

③ Product Notation

1	Slim 1 way	Cassette Type
2	2 way	
M	Mini 4 way	
4	4 way	
H	HSP duct	Duct Type
S	MSP duct	
L	Slim duct(LSP)	
C	Ceiling	Convertible Type
J	Console	
N	Neo forte	Wall Mounted Type

④ Mode

Z	Flagship (Heat Pump)
P	Premium (Heat Pump)
D	Deluxe (Heat Pump)
H	Heat Pump

⑤ Refrigerant

X	R410A
---	-------

⑥ Rating Voltage

E	1Ø, 220~240V, 50Hz
G	3Ø, 380~415V, 50Hz

⑦ Version

A~Z	Export
-----	--------

1-3. Outdoor Unit

New Model Name

RC	100	D	H	X	E	A	/	000
①	②	③	④	⑤	⑥	⑦		Buyer

① Classification

RC	CAC (Single)
----	--------------

② Capacity

x 1/10 kW (3 digits)

③ Product Notation

P	Inverter Premium
D	Inverter Deluxe
Z	Flagship
S	Standard

④ Mode

C	Cooling Only
H	Heat Pump

⑤ Refrigerant

X	R410A
---	-------

⑥ Rating Voltage

E	1Ø, 220~240V, 50Hz
G	3Ø, 380~415V, 50Hz

⑦ Version

A~Z	Export
-----	--------

2 Line-up

2-1. Indoor Unit

Capacity Type	2.6kW	3.5kW	5.2kW	6.0kW	7.0/ 7.1kW	9.0kW	10.0kW	12.5kW	14.0kW
Slim 1 way cassette									
Mini 4 way cassette									
4 way cassette S (Deluxe)									
4 way cassette S (Premium)									
4 way cassette S (Flagship)									
Slim duct									
MSP duct									
Console									
Ceiling									
Neo forte									

2-2. Outdoor Unit

Type		Capacity	2.6kW	3.5kW	5.2kW	6.0kW
Smart Inverter	Premium	1Phase				
		3Phase				
	Deluxe	1Phase				
		3Phase				
	Standard	1Phase				

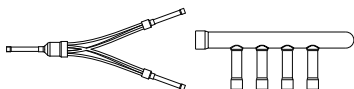
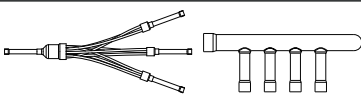
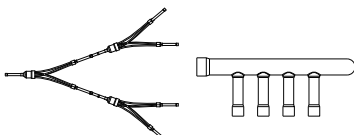
Type		Capacity	7.0/7.1kW	9.0kW	10.0kW	12.5kW	14.0kW
Smart Inverter	Flagship	1Phase					
		3Phase					
	Premium	1Phase					
		3Phase					
	Deluxe	1Phase					
		3Phase					
	Standard	1Phase					

2-3. DPM(Digital Pack Multi)

Capacity	Smart Inverter		Outdoor Unit	Indoor Unit
7.1kW	Premium	1Phase	RC071PH-XEA	ACN035NDEHA/EU x 2
		3Phase	-	-
	Deluxe	1Phase	RC071DH-XEA	ACN035NDEHA/EU x 2
		3Phase	-	-
10.0kW	Premium	1Phase	RC100PH-XEA	ACN052NDEHA/EU x 2 ACN035NDEHA/EU x 3
		3Phase	RC100PH-XGA	ACN052NDEHA/EU x 2 ACN035NDEHA/EU x 3
	Deluxe	1Phase	RC100DH-XEA	ACN052NDEHA/EU x 2 ACN035NDEHA/EU x 3
		3Phase	RC100DH-XGA	ACN052NDEHA/EU x 2 ACN035NDEHA/EU x 3
	Premium	1Phase	RC125PH-XEA	ACN060NDEHA/EU x 2 ACN052NDEHA/EU x 3
		3Phase	RC125PH-XGA	ACN060NDEHA/EU x 2 ACN052NDEHA/EU x 3
12.5kW	Deluxe	1Phase	RC125DH-XEB	ACN060NDEHA/EU x 2 ACN052NDEHA/EU x 3
		3Phase	RC125DH-XGA	ACN060NDEHA/EU x 2 ACN052NDEHA/EU x 3

Capacity	Smart Inverter		Outdoor Unit	Indoor Unit
14.0kW	Premium	1Phase	RC140PH-XEA	ACN071NDEHA/EU x 2 ACN052NDEHA/EU x 3 ACN035NDEHA/EU x 4
			RC140PH-XEA	NS0714DXEA x 2
		3Phase	RC140PH-XGA	ACN071NDEHA/EU x 2 ACN052NDEHA/EU x 3 ACN035NDEHA/EU x 4
			RC140PH-XGA	NS0714DXEA x 2
	Deluxe	1Phase	RC140DH-XEB	ACN071NDEHA/EU x 2 ACN052NDEHA/EU x 3 ACN035NDEHA/EU x 4
			RC140DH-XEB	NS0714DXEA x 2
		3Phase	RC140DH-XGA	ACN071NDEHA/EU x 2 ACN052NDEHA/EU x 3 ACN035NDEHA/EU x 4
			RC140DH-XGA	NS0714DXEA x 2

3 Accessory

Classification		Product		Model	Image
Integrated management system	Controller	DMS 2		MIM-D00A	
		S-NET 3		MST-P3P	
		S-NET mini (Touch Panel Controller)		MST-S3W	
Centralized control system	Controller	Centralized controller (On/Off Controller)		MCM-A202D	
		Function controller		MCM-A100	
	Interface module	Centralized controller interface module		MIM-B13D	
Individual control system	Controller	Wireless remote controller		MR-DH00	
		Wired remote controller		MWR-WE10	
		Wired remote controller		MWR-WH00 MWR-WH01	
		Wired remote controller		MWR-SH00	
		Wireless signal receiver kit	Wireless signal receiver	MRK-A00	
			Receiver wire	MRK-10A	
		External Temp. Sensor		MRW-TA	
Guest room management system		External contact interface module		MIM-B14	
Joint		2 indoor units connection		MXJ-2D2509K	
		3 indoor units connection		MXJ-3D2509K	
		4 indoor units connection		MXJ-4D2509K	

Classification	Product	Model	Image
Front Panel	Slim 1 way cassette	PSSMA	
	Slim 1 way cassette	PC1NUPMA	
	Mini 4 way cassette (Waffle Pattern)	PC4SUSMA	
	Mini 4 way cassette	PMSMA	
	4 way cassette S (Waffle Pattern)	PC4NUSKA	
	4 way cassette S (Waffle Pattern, Black)	PC4NBSKA	
	4 way cassette S (Classic Pattern)	PC4NUSKE	
Motion Detect Sensor Kit	Mini 4 way cassette	MCR-SMA	
S-Plasma ion Kit	4way cassette S Mini 4 way cassette	MSD-CAN1	
Drain Pump	Slim duct	MDP-E075SEE3	
	MSP duct (1,150mm x 260(320)mm x 480mm)	MDP-M075SGU1	
	MSP duct (1,200mm x 360mm x 650mm)	MDP-M075SGU2	
	MSP duct (900mm x 260mm x 480mm)	MDP-M075SGU3	



Specifications

II. Specifications

1	Slim 1 way cassette	19
2	Mini 4 way cassette.....	27
3	4 way cassette S.....	47
4	Slim duct.....	83
5	MSP (Middle static pressure) duct.....	95
6	Console.....	117
7	Ceiling	129
8	Neo forte	139
9	Outdoor units	151



Specifications



1 Slim 1 way cassette

1-1. Specifications.....	20
1-2. Capacity tables	21
1-3. Dimensional drawing.....	22
1-4. PCB connector lay-out.....	23
1-5. Electrical wiring diagram	24
1-6. Sound pressure level	25
1-7. Temperature and air flow distribution.....	26

1 Slim 1 way cassette

1-1. Specifications

1) Technical specifications

Model Name		Indoor Unit		Outdoor Unit		NS0261DXEA		NS0351DXEA		
						RC026DHXEA		RC035DHXEA		
System	Mode				-		Heat Pump		Heat Pump	
	Capacity	Capacity (Nominal)	Cooling ⁽¹⁾	kW	1.00 / 2.60 / 3.50		1.00 / 3.50 / 4.10			
			(Min / Std / Max)	Btu/h	3,400 / 8,900 / 11,900		3,400 / 11,900 / 14,000			
			Heating ⁽²⁾	kW	1.00 / 3.30 / 4.60		1.00 / 4.00 / 4.80			
			(Min / Std / Max)	Btu/h	3,400 / 11,300 / 15,700		3,400 / 13,600 / 16,400			
	Power	Power Input (Nominal)	Cooling ⁽¹⁾	kW	0.25 / 0.70 / 1.12		0.25 / 1.14 / 1.42			
			(Min / Std / Max)		0.21 / 0.91 / 1.30		0.21 / 1.16 / 1.39			
		Current Input (Nominal)	Cooling ⁽¹⁾	A	1.60 / 3.30 / 5.20		1.60 / 5.30 / 6.60			
			(Min / Std / Max)		1.40 / 5.30 / 6.40		1.40 / 5.50 / 6.80			
		COP	Nominal Cooling		-	3.71		3.07		
			Nominal Heating		-	3.63		3.45		
	Energy Grade		-	A/A		B/B				
	Option Code				-		017057-1860F8-271A23-370010		017057-17624D-272328-370010	
	Piping Connections	Liquid Pipe		Ø, mm(inch)	6.35 (1/4)		6.35 (1/4)			
		Gas Pipe		Ø, mm(inch)	9.52 (3/8)		9.52 (3/8)			
		Installation Limitation	Max. Length	m	20.0		20.0			
			Max. Height	m	15.0		15.0			
Refrigerant	Type		-	R410A		R410A				
	Control Method		-	EEV		EEV				
	Factory Charging		kg	0.95		0.95				
Indoor Unit	Power Supply		Ø, #, V, Hz	-		1, 2, 220~240, 50		1, 2, 220~240, 50		
	Fan	Type	-	Cross flow		Cross flow				
		Motor	Output	W	56		60			
		Number of Unit		EA	1		1			
		Air Flow Rate	High / Mid / Low	CMM	8.0 / 7.0 / 6.0		8.5 / 7.5 / 6.5			
				CFM	283 / 247 / 212		300 / 265 / 230			
		External Static Pressure	Min / Std / Max	mmAq	-		-			
			Pa	-		-				
	Drain	Drain Pipe		Ø, mm	VP20 (OD 26,ID 20)		VP20 (OD 26,ID 20)			
	Sound	Sound Pressure ⁽³⁾	High / Mid / Low	dB(A)	30 / 27 / 25		34 / 31.5 / 28			
	External Dimension	Net Weight		kg	9.0		9.0			
		Shipping Weight		kg	11.0		11.0			
		Net Dimensions (WxHxD)		mm	970 x 135 x 410		970 x 135 x 410			
		Shipping Dimensions (WxHxD)		mm	1,164 x 212 x 478		1,164 x 212 x 478			
	Panel Size	Panel model		-	PSSMA / PC1NUPMA		PSSMA / PC1NUPMA			
		Panel Net Weight		kg	3.1		3.1			
		Shipping Weight		kg	4.5		4.5			
		Net Dimensions (WxHxD)		mm	1,180 x 25 x 460		1,180 x 25 x 460			
		Shipping Dimensions (WxHxD)		mm	1,259 x 144 x 539		1,259 x 144 x 539			
	Additional Accessories	Drain pump	Drain pump	-	Built-in		Built-in			
			Max. Lifting Height / Displacement	mm / liter/h	750 / 24		750 / 24			
		Air Filter		-	Long life filter		Long life filter			
	Outdoor Unit	Power Supply		Ø, #, V, Hz	-		1, 2, 220~240, 50		1, 2, 220~240, 50	
		Compressor	Type	-	Single BLDC Rotary		Single BLDC Rotary			
			Model		-	UG4C090LUDJR		UG4C090LUDJR		
			Oil	Type	-	POE		POE		
Initial Charge				cc	320		320			
Fan		Air Flow Rate	Cooling / Heating	CMM	29 / 29		30 / 30			
				CFM	1,024 / 1,024		1,060 / 1,060			
Sound		Sound Pressure ⁽³⁾	Cooling / Heating	dB(A)	46/47		47/48			
External Dimension		Net Weight		kg	33.0		33.0			
		Shipping Weight		kg	37.0		37.0			
		Net Dimensions (WxHxD)		mm	790 x 548 x 285		790 x 548 x 285			
		Shipping Dimensions (WxHxD)		mm	926 x 655 x 382		926 x 655 x 382			
Operating Temp. Range		Cooling		°C	-10 ~ 46		-10 ~ 46			
		Heating		°C	-15 ~ 24		-15 ~ 24			

*Specifications may be subject to change without prior notice for product improvement.

*1) Nominal cooling capacities are based on;

- Indoor temperature : 27°C DB, 19°C WB / Outdoor temperature : 35°C DB, 24°C WB
- Equivalent refrigerant piping : 5m, Level differences : 0m

*2) Nominal heating capacities are based on;

- Indoor temperature : 20°C DB, 15°C WB / Outdoor temperature : 7°C DB, 6°C WB
- Equivalent refrigerant piping : 5m, Level differences : 0m

*3) Sound pressure was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

1-2. Capacity tables

1) RC026DHXEA + NS0261DXEA

(1) Cooling

TC(Total Capacity, kW), SHC(Sensible Heat Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)											
		-10			21			35			46		
WB	DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	2.84	2.13	0.40	3.41	2.56	0.86	2.42	1.81	0.65	2.65	1.99	1.21
16	22	2.91	2.19	0.41	3.50	2.62	0.89	2.48	1.86	0.66	2.71	2.04	1.24
18	25	2.99	2.24	0.42	3.58	2.69	0.91	2.54	1.90	0.68	2.78	2.09	1.27
19	27	3.06	2.30	0.43	3.67	2.75	0.93	2.60	1.95	0.70	2.85	2.14	1.30
22	30	3.13	2.35	0.44	3.76	2.82	0.95	2.66	2.00	0.71	2.92	2.19	1.33
24	32	3.21	2.41	0.45	3.85	2.89	0.98	2.73	2.04	0.73	2.99	2.24	1.36

(2) Heating

TC(Total Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)							
		-15		-10		7		24	
DB		TC	PI	TC	PI	TC	PI	TC	PI
16		2.36	1.00	2.77	1.09	3.37	0.93	3.59	0.98
18		2.33	0.99	2.75	1.08	3.33	0.92	3.56	0.97
20		2.31	0.98	2.72	1.07	3.30	0.91	3.52	0.96
21		2.29	0.97	2.69	1.06	3.27	0.90	3.48	0.95
22		2.26	0.96	2.67	1.05	3.23	0.89	3.45	0.94
24		2.24	0.95	2.64	1.04	3.20	0.88	3.42	0.93

2) RC035DHXEA + NS0351DXEA

(1) Cooling

TC(Total Capacity, kW), SHC(Sensible Heat Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)											
		-10			21			35			46		
WB	DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	3.46	2.59	0.75	3.86	2.89	1.08	3.25	2.44	1.06	2.79	2.09	1.21
16	22	3.54	2.66	0.77	3.95	2.96	1.10	3.33	2.50	1.09	2.86	2.14	1.24
18	25	3.63	2.72	0.79	4.05	3.04	1.13	3.42	2.56	1.11	2.93	2.20	1.27
19	27	3.72	2.79	0.81	4.15	3.11	1.16	3.50	2.63	1.14	3.00	2.25	1.30
22	30	3.81	2.86	0.83	4.25	3.19	1.19	3.58	2.69	1.17	3.07	2.30	1.33
24	32	3.90	2.93	0.85	4.35	3.26	1.22	3.67	2.75	1.20	3.15	2.36	1.36

(2) Heating

TC(Total Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)							
		-15		-10		7		24	
DB		TC	PI	TC	PI	TC	PI	TC	PI
16		2.56	1.30	3.38	1.41	4.08	1.18	4.36	1.26
18		2.54	1.28	3.34	1.39	4.04	1.17	4.31	1.25
20		2.51	1.27	3.31	1.38	4.00	1.16	4.27	1.24
21		2.48	1.26	3.28	1.37	3.96	1.15	4.23	1.23
22		2.46	1.24	3.24	1.35	3.92	1.14	4.19	1.22
24		2.44	1.23	3.21	1.34	3.88	1.13	4.14	1.20

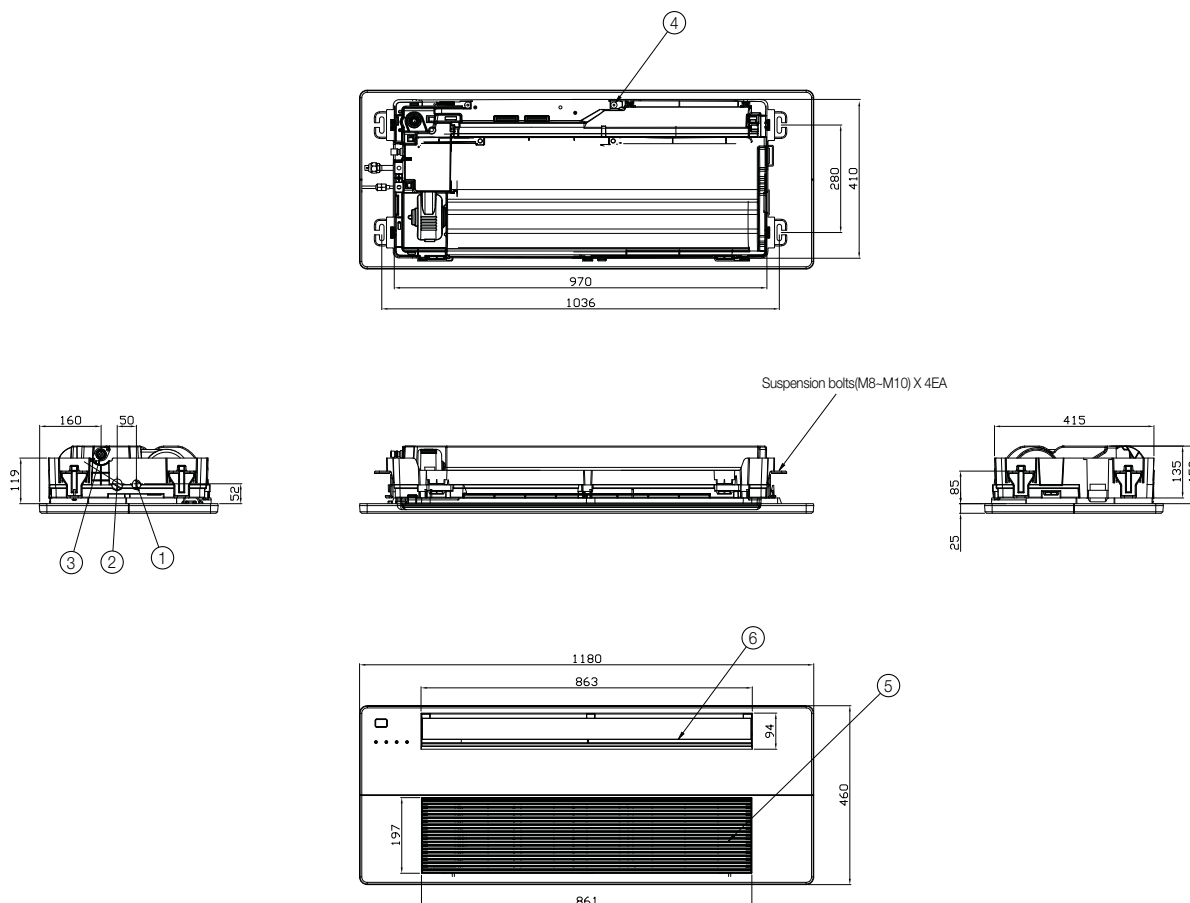
Note

- ◆ Ratings shown are net capacities.
- ◆ Capacities are based on following conditions;
 - Equivalent refrigerant piping length : 5m / Level difference : 0m.

1 Slim 1 way cassette

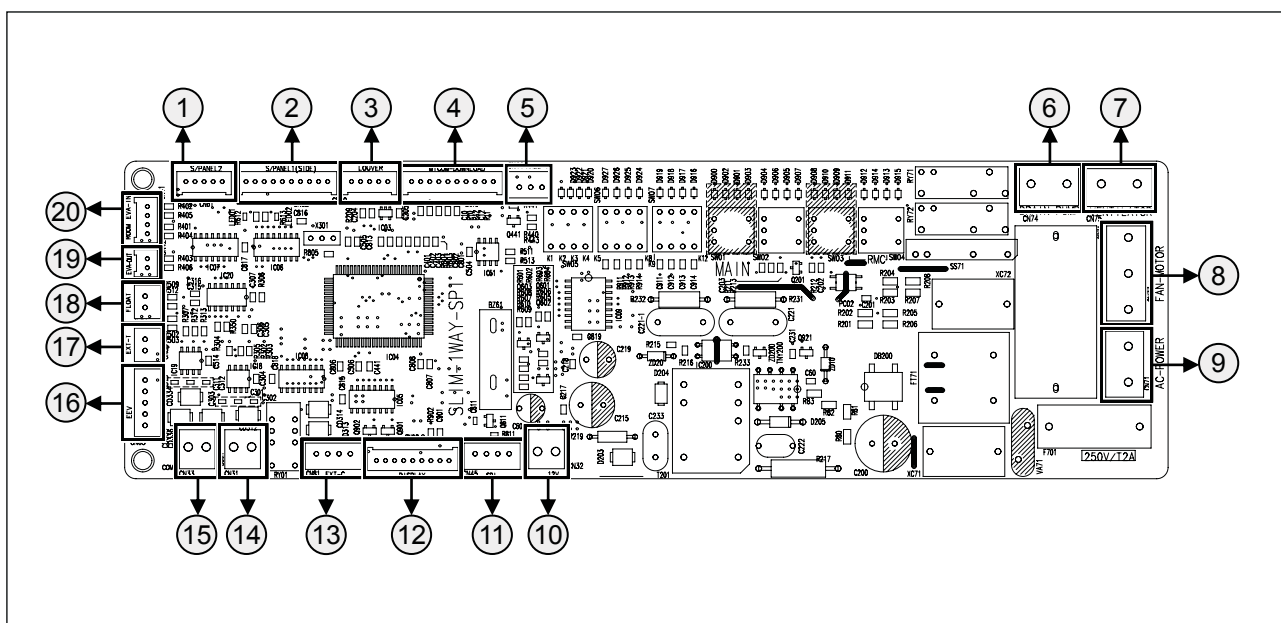
1-3. Dimensional drawing

Unit:mm



No.	Name	Description	
		2.6kW	3.5kW
①	Liquid pipe connection	Ø6.35mm (1/4") Flare	
②	Gas pipe connection	Ø9.52mm (3/8") Flare	
③	Drain pipe connection	VP20 (OD26, ID20)	
④	Conduit for power supply & communication wiring	-	
⑤	Air inlet grille	-	
⑥	Air outlet louver	-	

1-4. PCB connector lay-out



AC

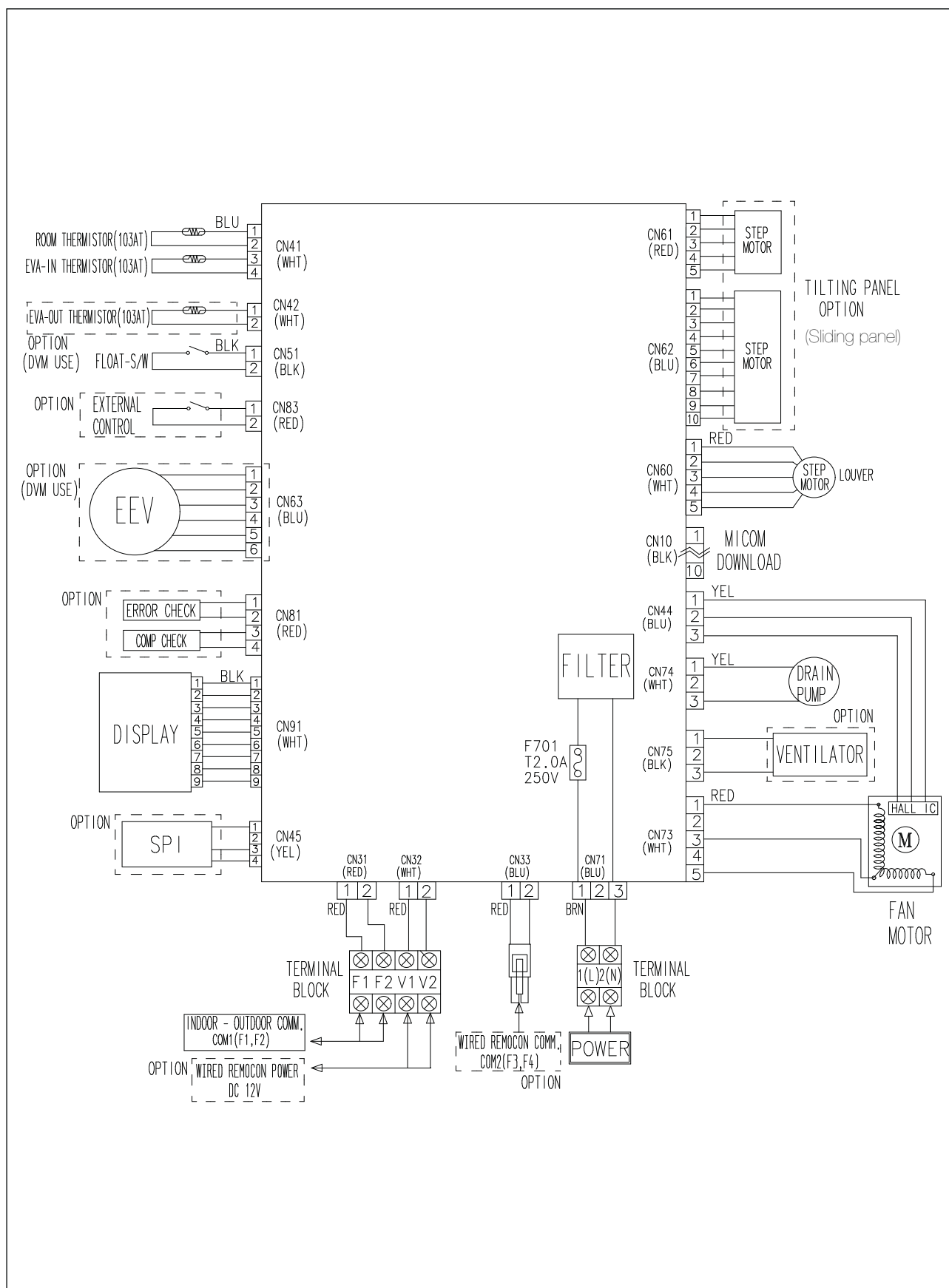
No.	CN #	Color	Function
⑥	CN74	WHT	Drain Pump
⑦	CN75	BLK	Ventilator
⑧	CN73	WHT	Fan Motor
⑨	CN71	BLU	AC POWER Input

DC

No.	CN #	Color	Function
①	CN61	RED	Sliding Panel2 (Option : Sliding Panel)
②	CN62	BLU	Sliding Panel1 (Option : Sliding Panel)
③	CN60	WHT	Louver
④	CN10	BLK	Micom-Download
⑤	CN44	BLU	Hall-IC(RPM Feedback)
⑩	CN32	WHT	DC12V
⑪	CN45	YEL	SPI
⑫	CN91	WHT	Panel Display
⑬	CN81	RED	Error Check, Oper. Check
⑭	CN31	RED	COM1
⑮	CN33	BLU	COM2
⑯	CN63	BLU	EEV(Only for DVM)
⑰	CN83	RED	External Control(On/Off)
⑱	CN51	BLK	Float switch sensor
⑲	CN42	WHT	EVA OUT Temp. sensor
⑳	CN41	WHT	Indoor Unit Temp. sensor (Room,EVA IN)

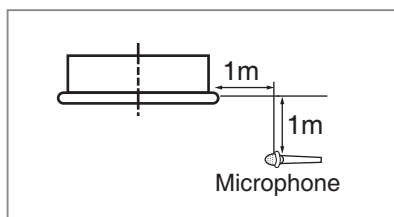
1 Slim 1 way cassette

1-5. Electrical wiring diagram



1-6. Sound pressure level

1) Operation sound level



Unit : dB(A)

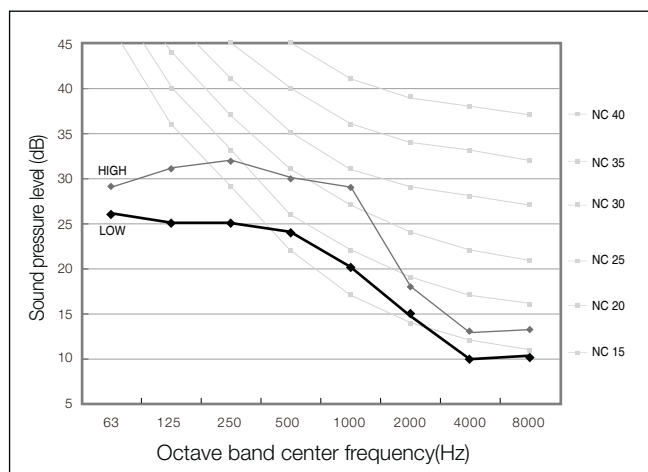
Model	High	Low
NS0261DXEA	30	25
NS0351DXEA	34	28

Note

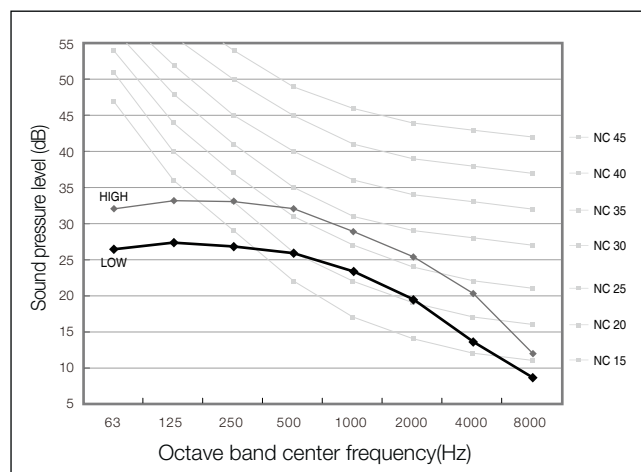
- ◆ These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- ◆ Operation sound level may differ depending on operation and ambient conditions.

2) NC curves

(1) NS0261DXEA



(2) NS0351DXEA



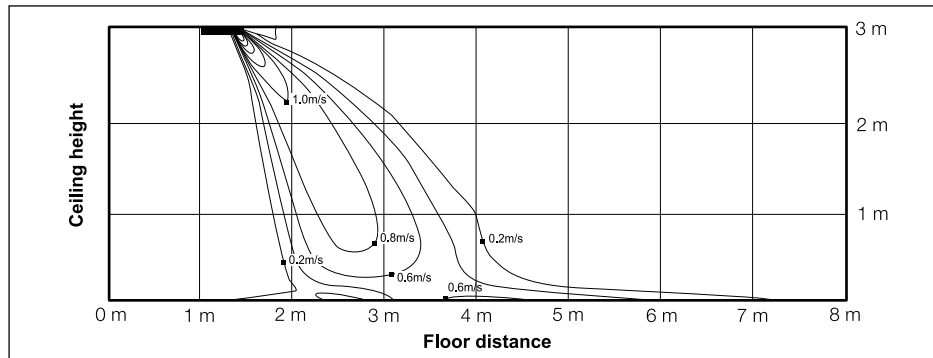
1 Slim 1 way cassette

1-7. Temperature and air flow distribution

1) NS0351DXEA

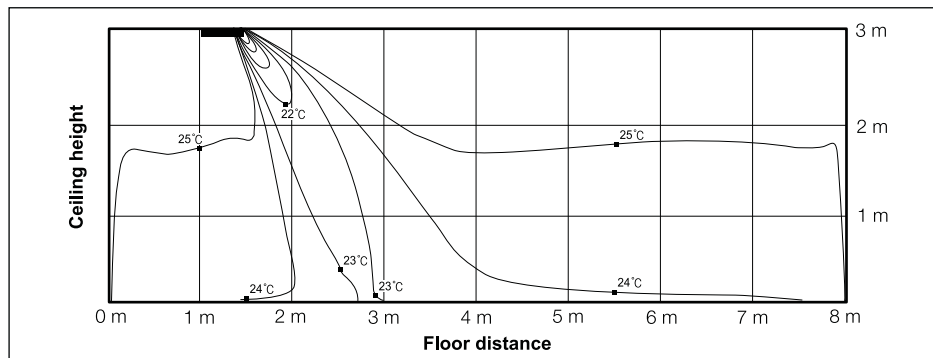
(1) Cooling air velocity distribution

◆ Discharge angle : 60°



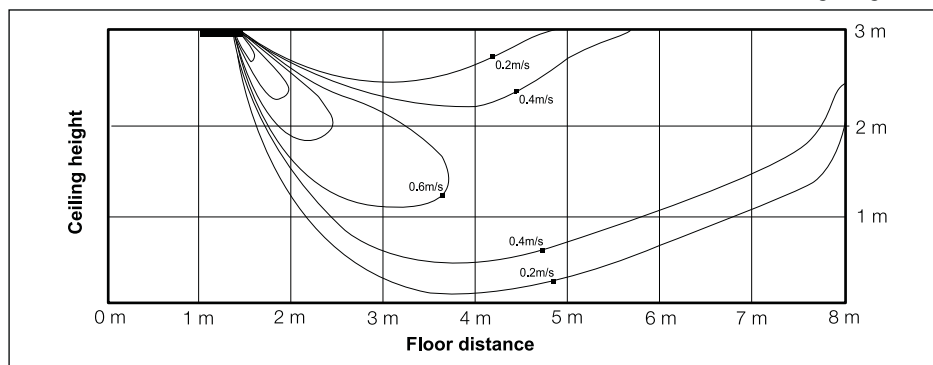
(2) Cooling temperature distribution

◆ Discharge angle : 60°



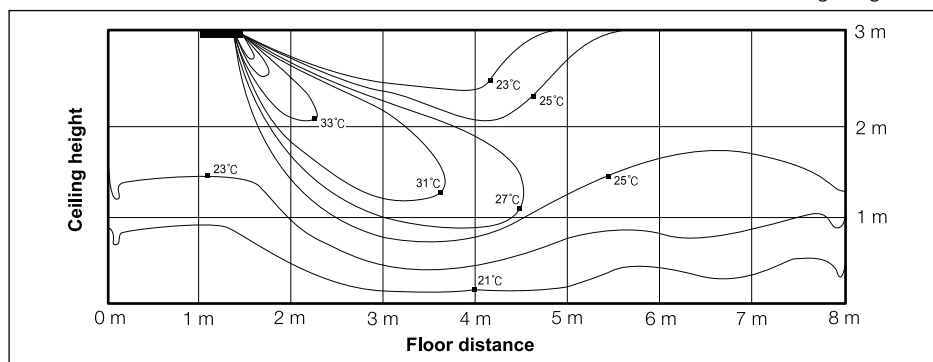
(3) Heating air velocity distribution

◆ Discharge angle : 60°



(4) Heating temperature distribution

◆ Discharge angle : 60°





2 Mini 4 way cassette

2-1. Specifications.....	28
2-2. Capacity tables	29
2-3. Dimensional drawing	32
2-4. PCB connector lay-out.....	33
2-5. Electrical wiring diagram	34
2-6. Sound pressure level	35
2-7. Temperature and air flow distribution.....	37
2-8. Sub duct.....	42

2 Mini 4 way cassette

2-1. Specifications

1) Technical specifications

Model Name		Indoor Unit		Outdoor Unit		ACN026NDEHA/EU	ACN035NDEHA/EU	ACN052NDEHA/EU	ACN060NDEHA/EU	ACN071NDEHA/EU
						RC026DHXEA	RC035DHXEA	RC052DHXEA	RC060DHXEA	RC071DHXEA
System	Mode				-	Heat Pump	Heat Pump	Heat Pump	Heat Pump	Heat Pump
	Capacity	Capacity (Nominal)	Cooling ¹⁾	kW	Btu/h	0.99 / 2.60 / 3.50	0.99 / 3.50 / 4.20	1.30 / 5.00 / 5.90	1.80 / 5.80 / 6.50	2.00 / 6.80 / 7.50
			Heating ²⁾			0.98 / 3.30 / 4.60	0.98 / 4.00 / 5.00	1.30 / 5.50 / 7.50	1.60 / 7.00 / 9.00	1.60 / 7.50 / 10.00
			(Min / Std / Max)			3,300 / 11,300 / 15,700	3,300 / 13,600 / 17,100	4,400 / 18,800 / 25,600	5,500 / 23,900 / 30,700	5,500 / 25,600 / 34,100
	Power	Power Input (Nominal)	Cooling ¹⁾	kW		0.23 / 0.73 / 1.13	0.24 / 1.09 / 1.45	0.31 / 1.56 / 2.10	0.38 / 1.81 / 2.60	0.39 / 2.12 / 2.60
			Heating ²⁾			0.18 / 0.90 / 1.40	0.18 / 1.11 / 1.40	0.35 / 1.53 / 2.40	0.35 / 2.18 / 3.60	0.35 / 2.34 / 3.80
		(Min / Std / Max)	1.60 / 3.70 / 5.50			1.60 / 5.60 / 6.80	2.60 / 7.20 / 9.50	1.90 / 8.30 / 11.50	1.90 / 9.70 / 11.50	
		Current Input (Nominal)	Cooling ¹⁾			A		1.20 / 4.60 / 6.60	1.20 / 5.70 / 6.70	2.90 / 7.00 / 11.00
	Heating ²⁾	(Min / Std / Max)								
	COP	Nominal Cooling		-	3.56	3.21	3.21	3.21	3.21	
		Nominal Heating		-	3.67	3.61	3.61	3.21	3.21	
		Energy Grade	Cooling / Heating	-	A/A	A/A	A/A	A/C	A/C	
	Option Code			-	015077-1660F8 -271A21-370000	015077-166219 -272328-370000	015077-17625D -273437-370040	015077-18626E -273C46-370040	015077-166381- 274750-370040	
	Piping Connections	Liquid Pipe		Ø, mm(inch)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	
		Gas Pipe		Ø, mm(inch)	9.52 (3/8)	9.52 (3/8)	12.70 (1/2)	15.88 (5/8)	15.88 (5/8)	
Installation Limitation		Max. Length	m	20.0	20.0	30.0	50.0	50.0		
	Max. Height	m	15.0	15.0	20.0	30.0	30.0			
Refrigerant	Type		-	R410A	R410A	R410A	R410A	R410A		
	Control Method		-	EEV	EEV	EEV	EEV	EEV		
	Factory Charging		kg	0.95	0.95	1.40	1.80	1.80		
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	1, 2, 220~240, 50		
Indoor Unit	Fan	Type		-	Turbo Fan/BLDC	Turbo Fan/BLDC	Turbo Fan/BLDC	Turbo Fan/BLDC	Turbo Fan/BLDC	
		Motor		W	-	-	-	-	-	
		Number of Unit		EA	1	1	1	1	1	
		Air Flow Rate	High / Mid / Low	CMM	6.9/8.2/9.9	7.4/9.0/10.7	9.0/10.7/12.4	9.5/11.1/12.8	10.7/12.0/13.7	
		External Static Pressure	Min / Std / Max	CFM	256.63 / 303.22 / 361.47	274.98 / 330.4 / 391.83	330.4 / 391.83 / 447.25	346.64 / 403.12 / 463.48	391.83 / 447.25 / 505.84	
	Drain	Drain Pipe		Ø, mm	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)	
		Sound Pressure ³⁾		dB(A)	34/31/27	36/33/29	39/37/34	41/38/34	42/40/36	
		External Dimension	Net Weight		kg	11.0	11.0	11.7	12.0	12.0
	Shipping Weight		kg	13.0	13.0	13.7	14.0	14.0		
	Net Dimensions (WxHxD)		mm	575 x 250 x 575	575 x 250 x 575	575 x 250 x 575	575 x 250 x 575	575 x 250 x 575		
Shipping Dimensions (WxHxD)			mm	623 x 298 x 653	623 x 298 x 653	623 x 298 x 653	623 x 298 x 653	623 x 298 x 653		
Panel Size	Panel model		-	PC4SUSMA	PC4SUSMA	PC4SUSMA	PC4SUSMA	PC4SUSMA		
	Panel Net Weight		kg	2.7	2.7	2.7	2.7	2.7		
	Shipping Weight		kg	4.2	4.2	4.2	4.2	4.2		
	Net Dimensions (WxHxD)		mm	670 x 45 x 670	670 x 45 x 670	670 x 45 x 670	670 x 45 x 670	670 x 45 x 670		
	Shipping Dimensions (WxHxD)		mm	714 x 106 x 724	714 x 106 x 724	714 x 106 x 724	714 x 106 x 724	714 x 106 x 724		
Additional Accessories	Drain pump	Drain pump	-	Built-in	Built-in	Built-in	Built-in	Built-in		
		Max. Lifting Height / Displacement	mm / liter/h	750 / 24	750 / 24	750 / 24	750 / 24	750 / 24		
	Air Filter		-	Long life filter	Long life filter	Long life filter	Long life filter	Long life filter		
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	1, 2, 220~240, 50		
Outdoor Unit	Compressor	Type		-	Single BLDC Rotary	Single BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary	
		Model		-	G4C090LUDJR	G4C090LUDJR	UG4T150FUDJQ	UG4T200FUA4	UG4T200FUA4	
		Oil	Type	-	POE	POE	POE	POE	POE	
	Fan	Initial Charge		cc	320	320	650	650	650	
		Air Flow Rate	Cooling / Heating	CMM	28.6/28.6	30.2/30.2	35.7/33.4	46.0/44.1	50.0/48.0	
				CFM	1010/1010	1067/1067	1261/1180	1625/1557	1766/1695	
	Sound	Sound Pressure ³⁾	Cooling / Heating	dB(A)	46/47	47/48	48/49	49/50	49/51	
	External Dimension	Net Weight		kg	33.0	33.0	38.5	55.0	55.0	
		Shipping Weight		kg	37.0	37.0	42.5	59.0	59.0	
		Net Dimensions (WxHxD)		mm	790 x 548 x 285	790 x 548 x 285	790 x 548 x 285	880 x 798 x 310	880 x 798 x 310	
Shipping Dimensions (WxHxD)		mm	926 x 655 x 382	926 x 655 x 382	926 x 655 x 382	1,023 x 891 x 413	1,023 x 891 x 413			
Operating Temp. Range	Cooling		°C	-10 ~ 46	-10 ~ 46	-15 ~ 46	-15 ~ 46	-15 ~ 50		
	Heating		°C	-15 ~ 24	-15 ~ 24	-15 ~ 24	-20 ~ 24	-20 ~ 24		

*Specifications may be subject to change without prior notice for product improvement.

*1) Nominal cooling capacities are based on;

- Indoor temperature : 27°C DB, 19°C WB / Outdoor temperature : 35°C DB, 24°C WB
- Equivalent refrigerant piping : 5m, Level differences : 0m

*2) Nominal heating capacities are based on;

- Indoor temperature : 20°C DB, 15°C WB / Outdoor temperature : 7°C DB, 6°C WB
- Equivalent refrigerant piping : 5m, Level differences : 0m

*3) Sound pressure was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

2-2. Capacity tables

1) RC026DHXEA + ACN026NDEHA

(1) Cooling

TC(Total Capacity, kW), SHC(Sensible Heat Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)											
		-10			21			35			46		
WB	DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	2.7	2.1	0.6	2.6	2.1	0.5	2.4	1.9	0.7	2.5	2.0	1.2
16	22	2.7	2.2	0.6	2.7	2.1	0.5	2.4	1.9	0.7	2.5	2.0	1.3
18	25	2.8	2.2	0.6	2.8	2.2	0.5	2.5	2.0	0.7	2.6	2.1	1.3
19	27	2.9	2.3	0.6	2.8	2.3	0.5	2.6	2.0	0.7	2.7	2.1	1.3
22	30	2.9	2.4	0.6	2.9	2.3	0.5	2.6	2.1	0.7	2.7	2.2	1.4
24	32	3.0	2.4	0.6	3.0	2.4	0.5	2.7	2.1	0.8	2.8	2.2	1.4

(2) Heating

TC(Total Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)							
		-15		-10		7		24	
DB		TC	PI	TC	PI	TC	PI	TC	PI
16		2.3	1.0	2.7	1.1	3.4	0.9	4.7	1.3
18		2.3	1.0	2.6	1.1	3.3	0.9	4.7	1.3
20		2.3	1.0	2.6	1.1	3.3	0.9	4.7	1.3
21		2.2	1.0	2.6	1.1	3.3	0.9	4.6	1.3
22		2.2	1.0	2.5	1.1	3.2	0.9	4.6	1.3
24		2.2	1.0	2.5	1.1	3.2	0.9	4.5	1.3

2) RC035DHXEA + ACN035NDEHA

(1) Cooling

TC(Total Capacity, kW), SHC(Sensible Heat Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)											
		-10			21			35			46		
WB	DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	3.5	2.8	0.9	3.4	2.7	0.8	3.3	2.6	1.0	2.5	2.0	1.2
16	22	3.6	2.9	0.9	3.5	2.8	0.8	3.3	2.7	1.0	2.5	2.0	1.3
18	25	3.7	3.0	0.9	3.6	2.8	0.8	3.4	2.7	1.1	2.6	2.1	1.3
19	27	3.8	3.0	0.9	3.6	2.9	0.9	3.5	2.8	1.1	2.7	2.1	1.3
22	30	3.9	3.1	1.0	3.7	3.0	0.9	3.6	2.9	1.1	2.7	2.2	1.4
24	32	4.0	3.2	1.0	3.8	3.1	0.9	3.7	2.9	1.1	2.8	2.2	1.4

(2) Heating

TC(Total Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)							
		-15		-10		7		24	
DB		TC	PI	TC	PI	TC	PI	TC	PI
16		2.5	1.1	2.9	1.2	4.1	1.1	5.3	1.3
18		2.5	1.1	2.9	1.1	4.0	1.1	5.3	1.3
20		2.4	1.1	2.8	1.1	4.0	1.1	5.2	1.3
21		2.4	1.0	2.8	1.1	4.0	1.1	5.1	1.3
22		2.4	1.0	2.8	1.1	3.9	1.1	5.1	1.3
24		2.4	1.0	2.7	1.1	3.9	1.1	5.0	1.3

Note

- ◆ Ratings shown are net capacities.
- ◆ Capacities are based on following conditions;
 - Equivalent refrigerant piping length : 5m / Level difference : 0m.

2 Mini 4 way cassette

2-2. Capacity tables

3) RC052DHXEA + ACN052NDEHA

(1) Cooling

TC(Total Capacity, kW), SHC(Sensible Heat Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)											
		-10			21			35			46		
WB	DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	4.8	3.8	1.2	4.8	3.8	1.1	4.6	3.7	1.5	3.0	2.4	1.2
16	22	4.9	3.9	1.2	4.9	3.9	1.1	4.8	3.8	1.5	3.0	2.4	1.2
18	25	5.0	4.0	1.2	5.0	4.0	1.1	4.9	3.9	1.5	3.1	2.5	1.3
19	27	5.1	4.1	1.3	5.1	4.1	1.2	5.0	4.0	1.6	3.2	2.6	1.3
22	30	5.3	4.2	1.3	5.2	4.2	1.2	5.1	4.1	1.6	3.3	2.6	1.3
24	32	5.4	4.3	1.3	5.4	4.3	1.2	5.2	4.2	1.6	3.4	2.7	1.4

(2) Heating

TC(Total Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)							
		-15		-10		7		24	
DB		TC	PI	TC	PI	TC	PI	TC	PI
16		4.3	1.8	4.6	2.0	5.6	1.6	6.8	1.7
18		4.2	1.8	4.5	1.9	5.6	1.5	6.8	1.7
20		4.2	1.8	4.5	1.9	5.5	1.5	6.7	1.7
21		4.2	1.8	4.5	1.9	5.4	1.5	6.6	1.7
22		4.1	1.8	4.4	1.9	5.4	1.5	6.6	1.7
24		4.1	1.7	4.4	1.9	5.3	1.5	6.5	1.6

4) RC060DHXEA + ACN060NDEHA

(1) Cooling

TC(Total Capacity, kW), SHC(Sensible Heat Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)											
		-10			21			35			46		
WB	DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	5.9	4.7	1.5	6.5	5.2	1.5	5.4	4.3	1.7	5.5	4.4	2.9
16	22	6.0	4.8	1.5	6.6	5.3	1.6	5.5	4.4	1.7	5.7	4.5	3.0
18	25	6.1	4.9	1.6	6.8	5.4	1.6	5.7	4.5	1.8	5.8	4.6	3.0
19	27	6.3	5.0	1.6	7.0	5.6	1.7	5.8	4.6	1.8	6.0	4.8	3.1
22	30	6.5	5.2	1.6	7.1	5.7	1.7	5.9	4.8	1.9	6.1	4.9	3.2
24	32	6.6	5.3	1.7	7.3	5.8	1.7	6.1	4.9	1.9	6.2	5.0	3.3

(2) Heating

TC(Total Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)							
		-15		-10		7		24	
DB		TC	PI	TC	PI	TC	PI	TC	PI
16		4.8	2.4	6.1	2.9	7.1	2.2	8.6	2.9
18		4.7	2.4	6.1	2.8	7.1	2.2	8.5	2.8
20		4.7	2.4	6.0	2.8	7.0	2.2	8.4	2.8
21		4.6	2.4	5.9	2.8	6.9	2.2	8.3	2.8
22		4.6	2.4	5.9	2.7	6.9	2.1	8.2	2.7
24		4.5	2.3	5.8	2.7	6.8	2.1	8.2	2.7

✓ Note

- ◆ Ratings shown are net capacities.
- ◆ Capacities are based on following conditions;
 - Equivalent refrigerant piping length : 5m / Level difference : 0m.

5) RC071DHXEA + ACN071NDEHA

(1) Cooling

TC(Total Capacity, kW), SHC(Sensible Heat Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)											
		-10			21			35			46		
WB	DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	6.2	5.0	1.5	6.8	5.4	1.5	6.3	5.1	2.0	4.7	3.8	2.6
16	22	6.4	5.1	1.5	7.0	5.6	1.5	6.5	5.2	2.0	4.9	3.9	2.7
18	25	6.5	5.2	1.6	7.1	5.7	1.6	6.6	5.3	2.1	5.0	4.0	2.7
19	27	6.7	5.4	1.6	7.3	5.8	1.6	6.8	5.4	2.1	5.1	4.1	2.8
22	30	6.9	5.5	1.6	7.5	6.0	1.6	7.0	5.6	2.2	5.2	4.2	2.9
24	32	7.0	5.6	1.7	7.7	6.1	1.7	7.1	5.7	2.2	5.3	4.3	2.9

(2) Heating

TC(Total Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)							
		-15		-10		7		24	
DB		TC	PI	TC	PI	TC	PI	TC	PI
16		5.0	2.7	5.9	3.0	7.7	2.4	7.2	1.8
18		4.9	2.6	5.9	2.9	7.6	2.4	7.2	1.8
20		4.9	2.6	5.8	2.9	7.5	2.3	7.1	1.8
21		4.9	2.6	5.7	2.9	7.4	2.3	7.0	1.8
22		4.8	2.5	5.7	2.8	7.4	2.3	7.0	1.8
24		4.8	2.5	5.6	2.8	7.3	2.3	6.9	1.7

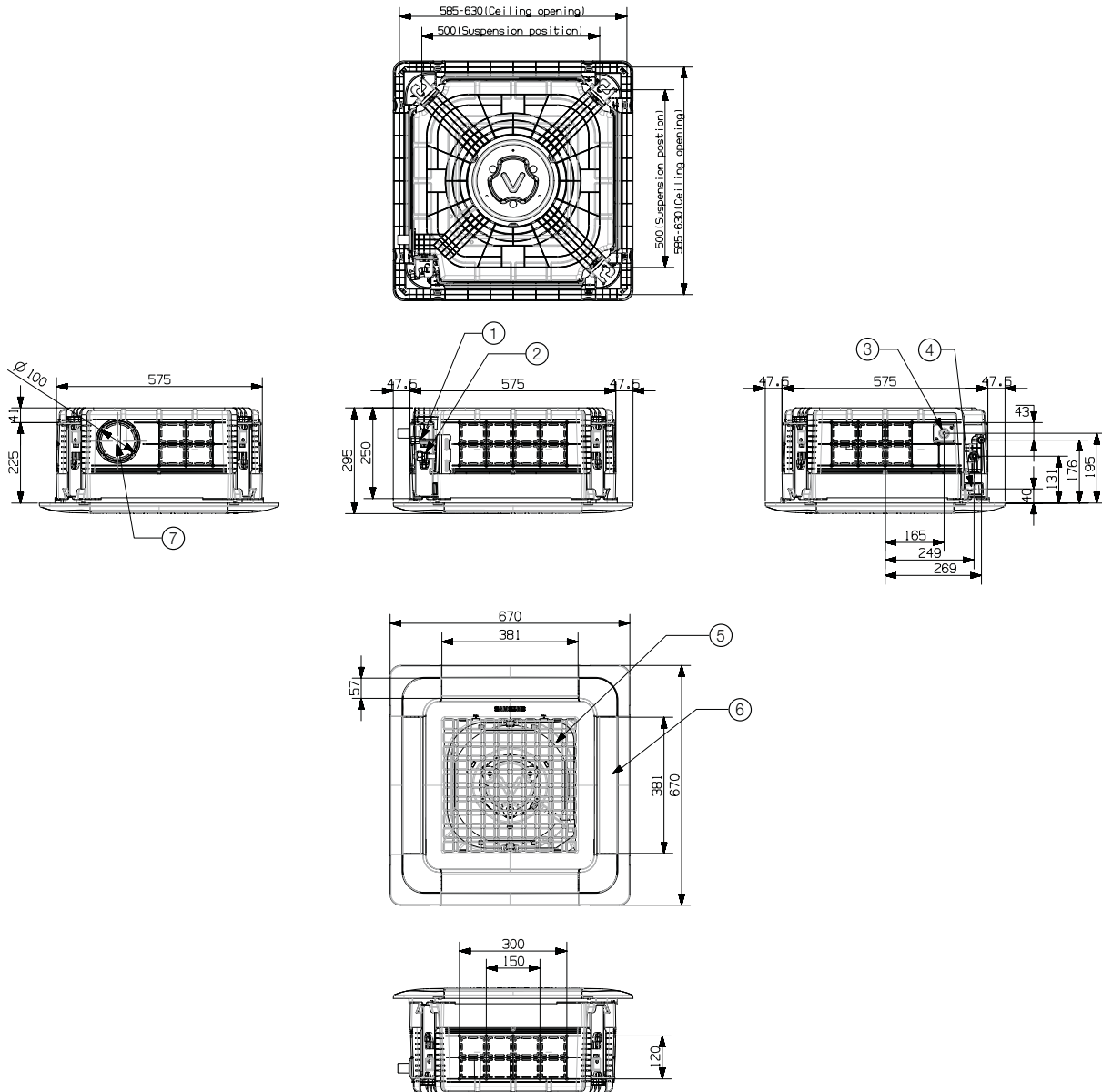
☒ Note

- ◆ Ratings shown are net capacities.
- ◆ Capacities are based on following conditions;
 - Equivalent refrigerant piping length : 5m / Level difference : 0m.

2 Mini 4 way cassette

2-3. Dimensional drawing

Unit:mm



No.	Name	Description				
		2.6kW	3.5kW	5.2kW	6.0kW	7.1kW
①	Liquid pipe connection	Ø6.35mm (1/4") Flare				
②	Gas pipe connection	Ø9.52mm (3/8") Flare		Ø12.7mm (1/2") Flare	Ø15.88mm (5/8") Flare	
③	Drain pipe connection	VP25 (OD32, ID25)				
④	Conduit for power supply & communication wiring	-				
⑤	Air inlet grille	-				
⑥	Air outlet louver	-				
⑦	Fresh air intake	Ø100				

Specifications

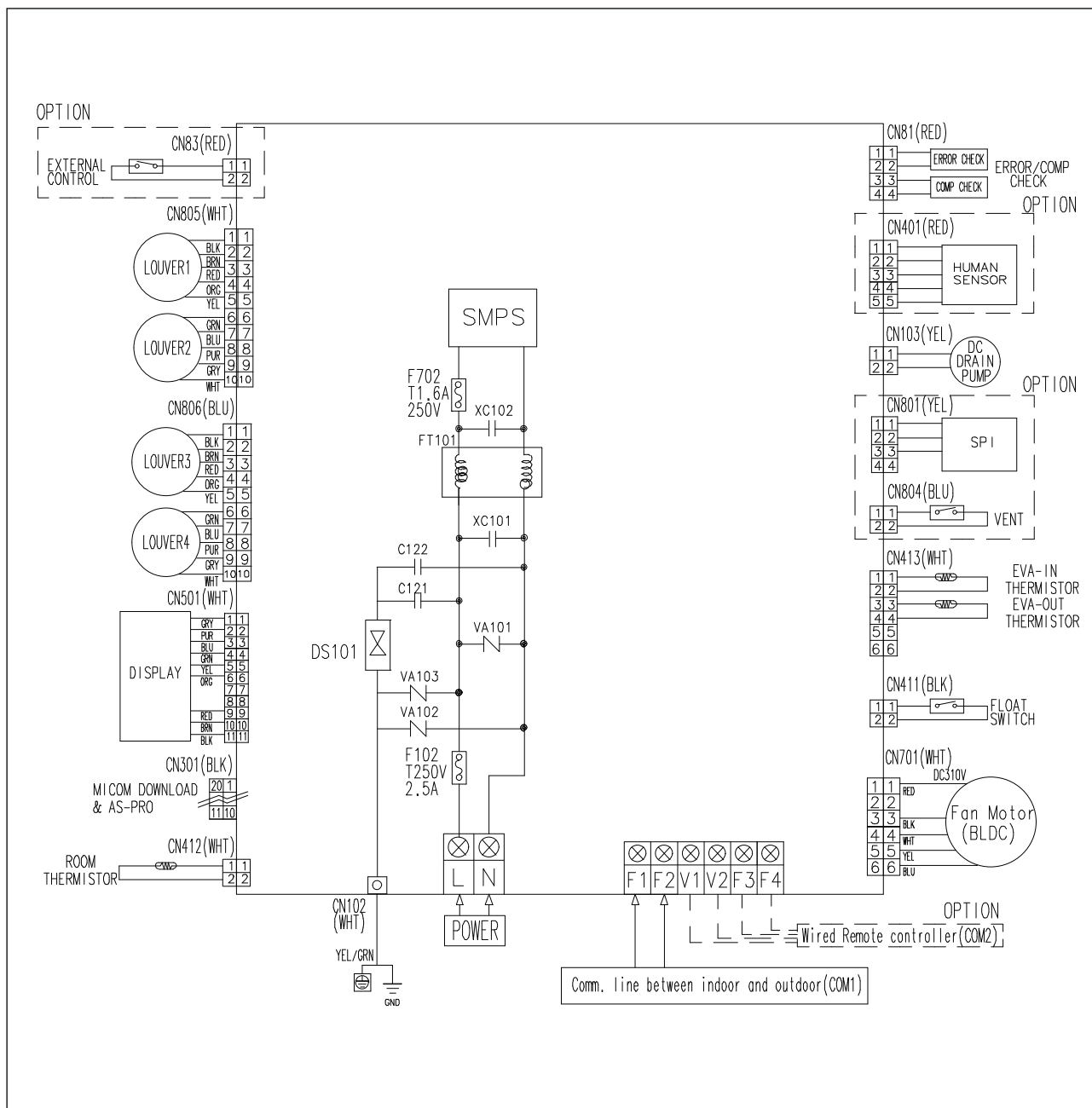


➡ DC

No.	CN #	Color	Function
④	CN411	Black	Float Sensor
⑤	CN413	Yellow	Eva In/Out/Discharge Temperature Sensor
⑥	CN412	White	Indoor Room Temperature sensor
⑦	CN501	White	Display
⑧	CN804	Blue	Ventilator
⑨	CN806	Blue	Louver 3/4
⑩	CN801	Yellow	SPi(S-Plasma ion)
⑪	CN103	Yellow	DC drain pump
⑫	CN201	White	EEPROM
⑬	CN401	Red	Human Sensor
⑭	CN805	White	Louver 1/2
⑮	CN81	Red	External Monitor
(a)	CN83	Red	External signal (On/Off)
(b)	TB301	Black	COM1/COM2 communication
(c)	CN301	Black	Download

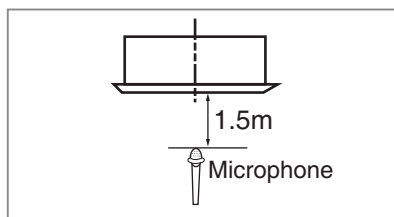
2 Mini 4 way cassette

2-5 . Electrical wiring diagram



2-6. Sound pressure level

1) Operation sound level



Unit : dB(A)

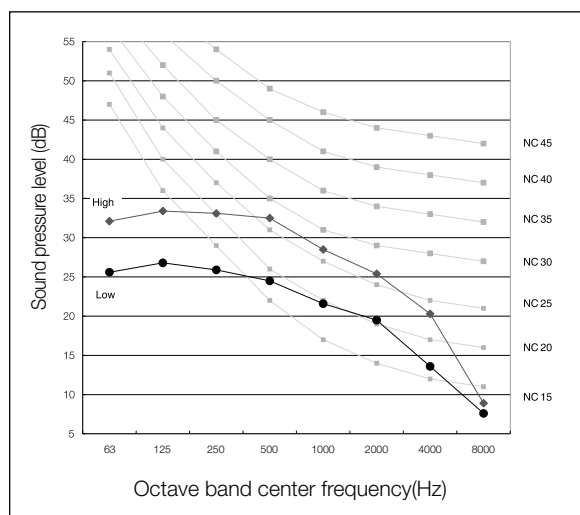
Model	High	Low
ACN026NDEHA/EU	34	27
ACN035NDEHA/EU	36	29
ACN052NDEHA/EU	39	34
ACN060NDEHA/EU	41	34
ACN071NDEHA/EU	42	36

✓ Note

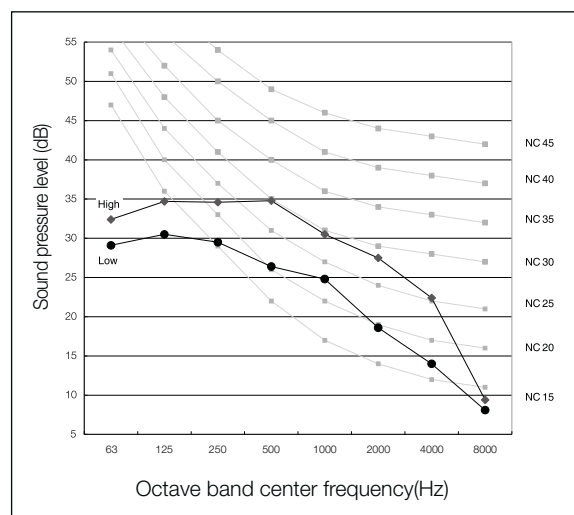
- ◆ These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- ◆ Operation sound level may differ depending on operation and ambient conditions.

2) NC curves

(1) ACN026NDEHA/EU



(2) ACN035NDEHA/EU

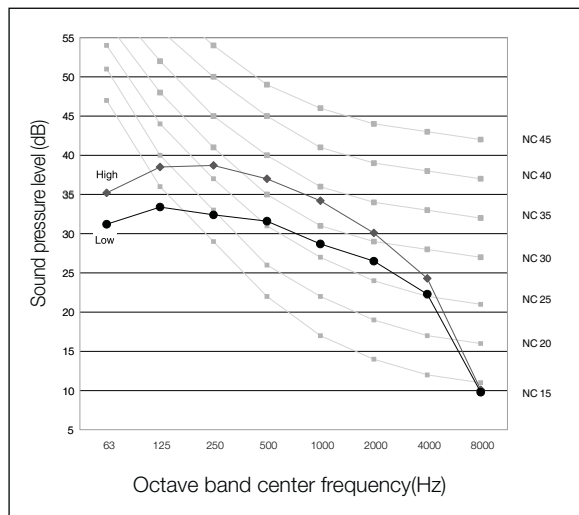


2 Mini 4 way cassette

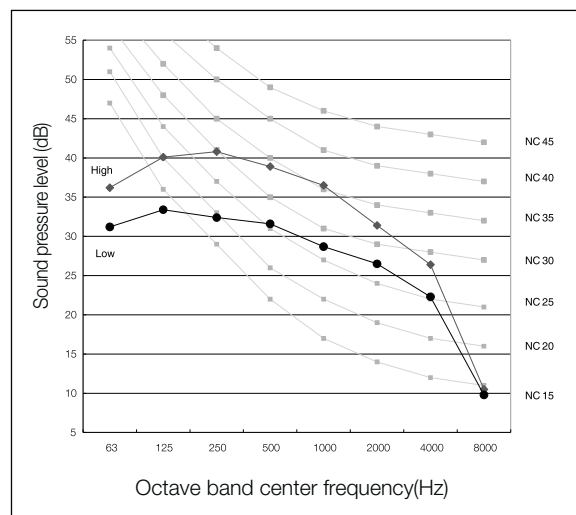
2-6. Sound pressure level

2) NC curves

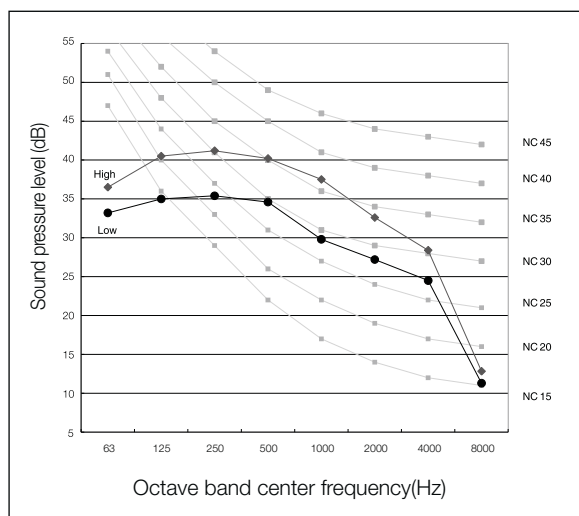
(3) ACN052NDEHA/EU



(4) ACN060NDEHA/EU



(5) ACN071NDEHA/EU

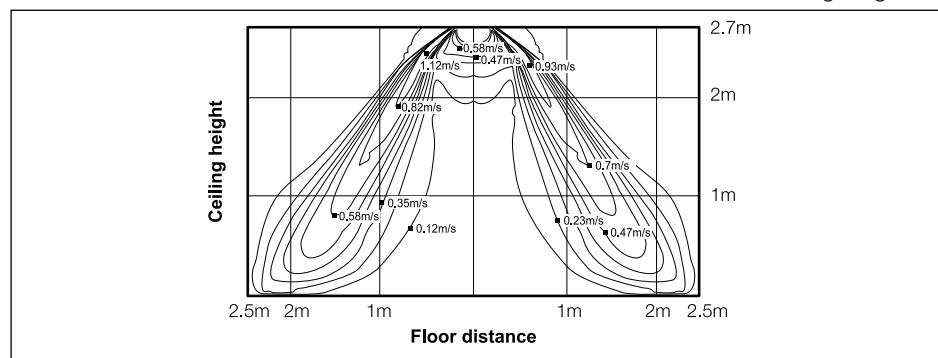


2-7. Temperature and air flow distribution

1) ACN026NDEHA/EU

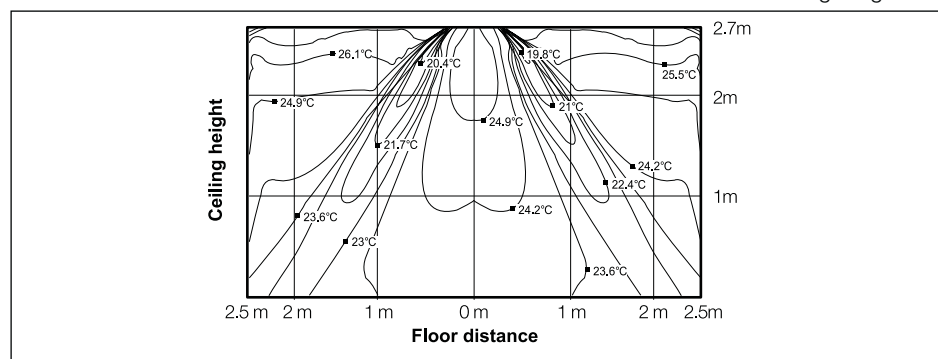
(1) Cooling air velocity distribution

◆ Discharge angle : 41°



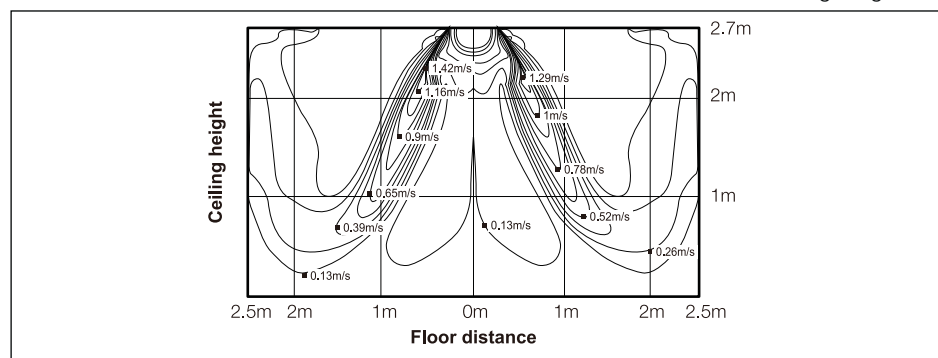
(2) Cooling temperature distribution

◆ Discharge angle : 41°



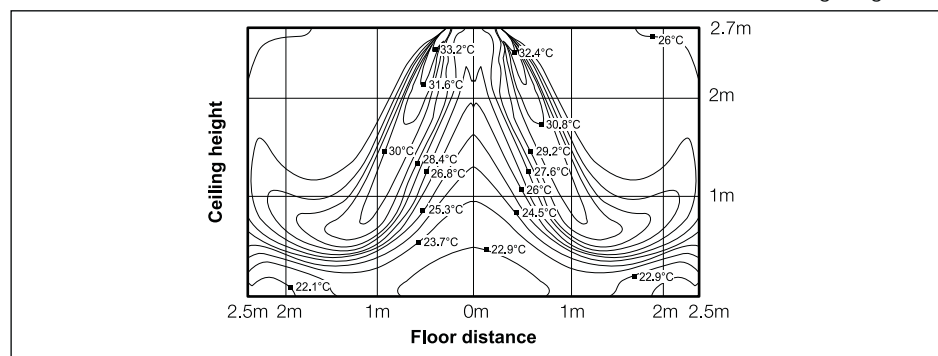
(3) Heating air velocity distribution

◆ Discharge angle : 52°



(4) Heating temperature distribution

◆ Discharge angle : 52°



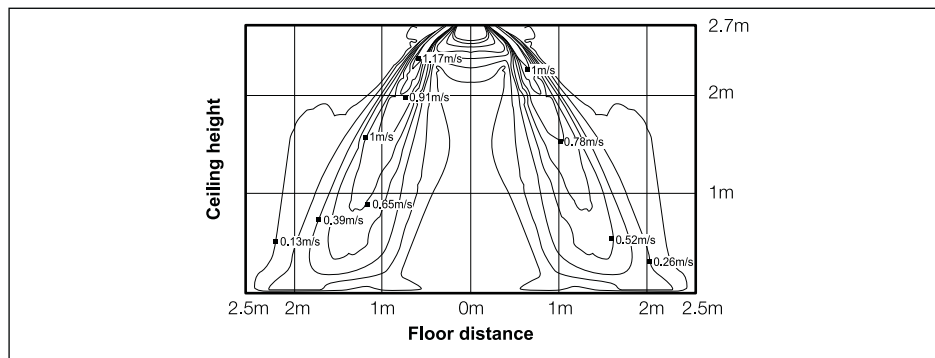
2 Mini 4 way cassette

2-7. Temperature and air flow distribution

2) ACN035NDEHA/EU

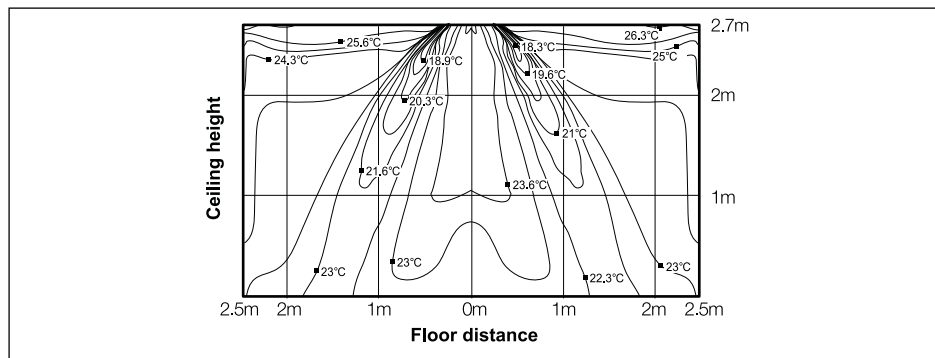
(1) Cooling air velocity distribution

◆ Discharge angle : 41°



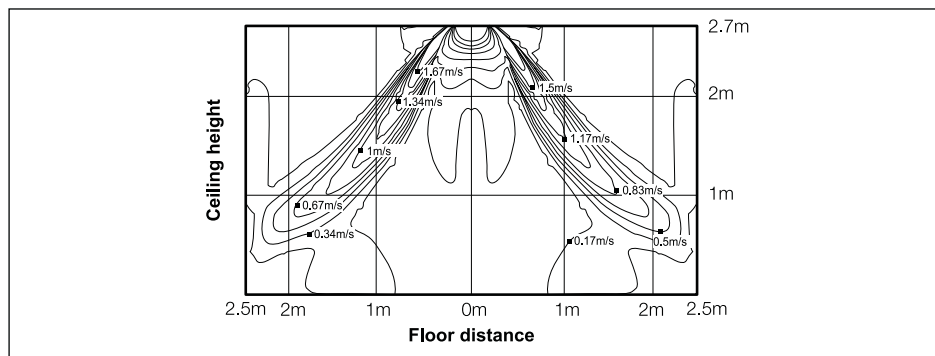
(2) Cooling temperature distribution

◆ Discharge angle : 41°



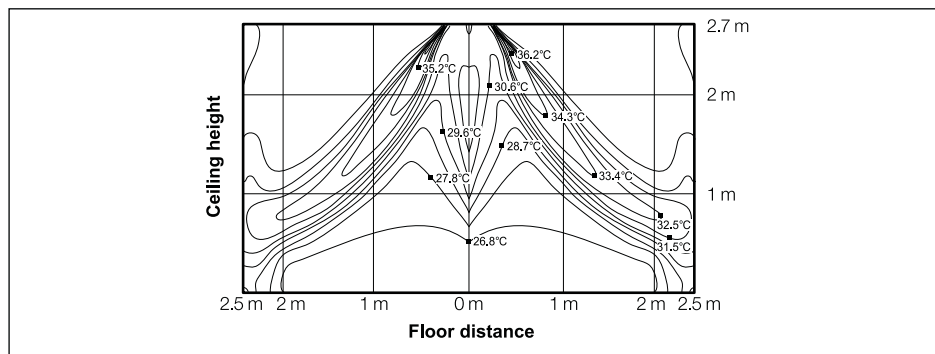
(3) Heating air velocity distribution

◆ Discharge angle : 52°



(4) Heating temperature distribution

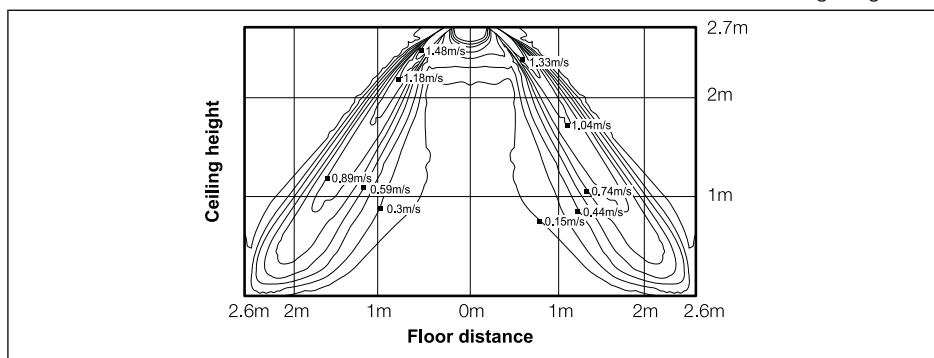
◆ Discharge angle : 52°



3) ACN052NDEHA/EU

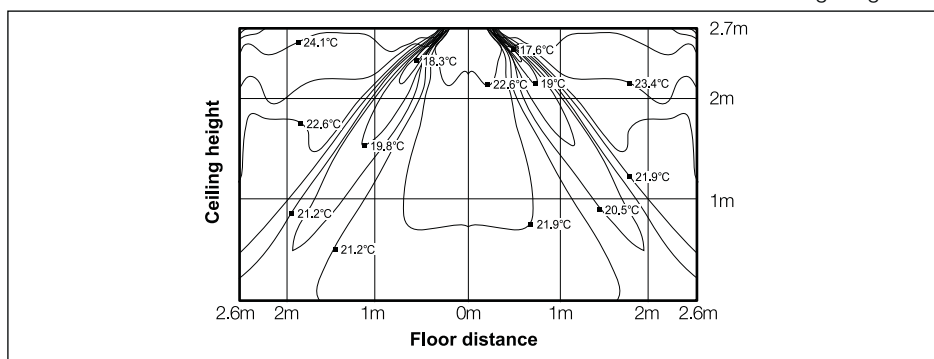
(1) Cooling air velocity distribution

◆ Discharge angle : 41°



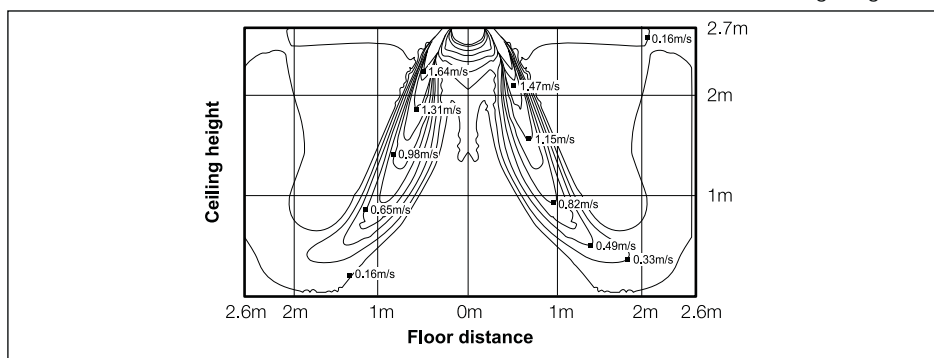
(2) Cooling temperature distribution

◆ Discharge angle : 41°



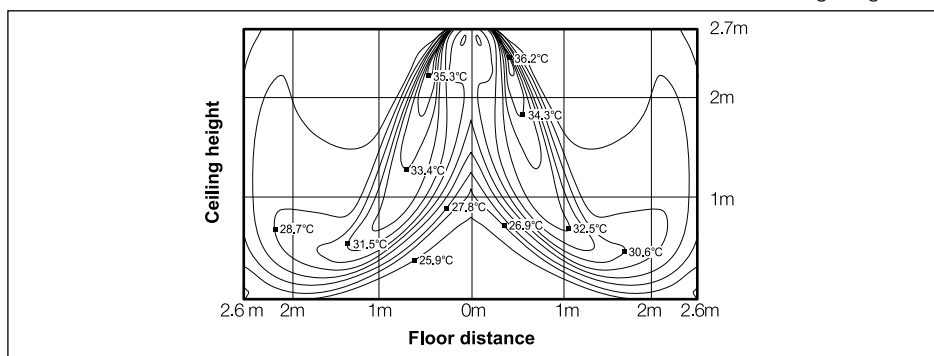
(3) Heating air velocity distribution

◆ Discharge angle : 52°



(4) Heating temperature distribution

◆ Discharge angle : 52°



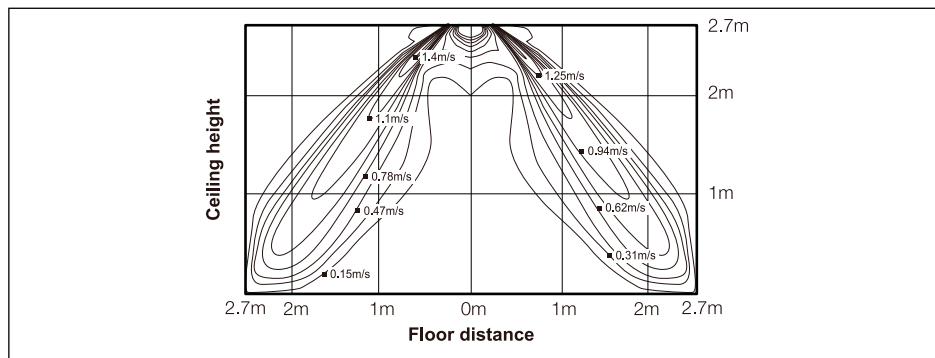
2 Mini 4 way cassette

2-7. Temperature and air flow distribution

4) ACN060NDEHA/EU

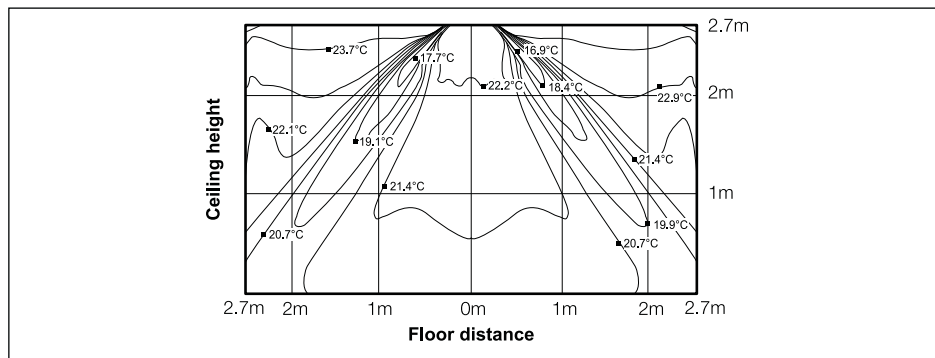
(1) Cooling air velocity distribution

◆ Discharge angle : 41°



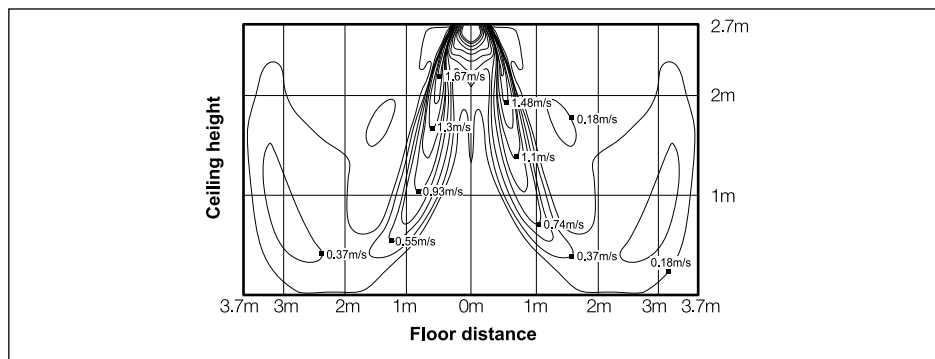
(2) Cooling temperature distribution

◆ Discharge angle : 41°



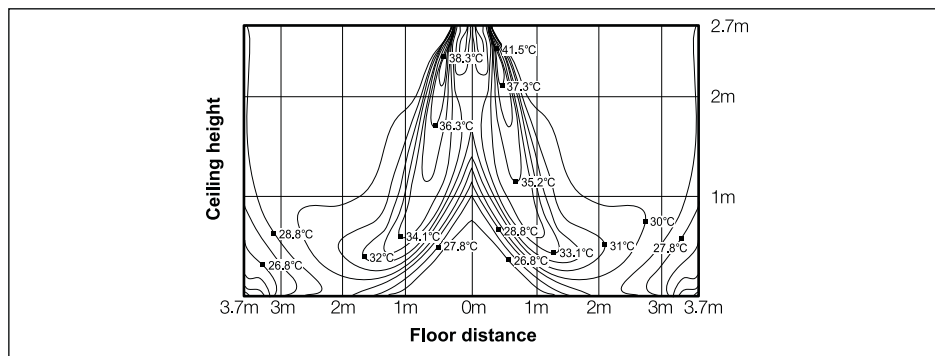
(3) Heating air velocity distribution

◆ Discharge angle : 52°



(4) Heating temperature distribution

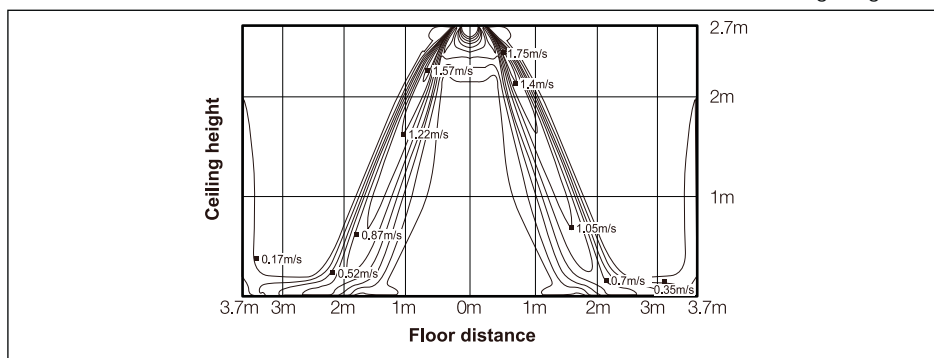
◆ Discharge angle : 52°



5) ACN071NDEHA/EU

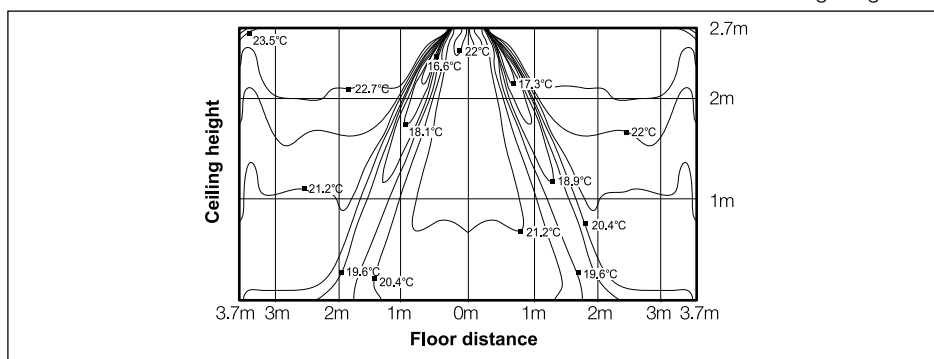
(1) Cooling air velocity distribution

◆ Discharge angle : 41°



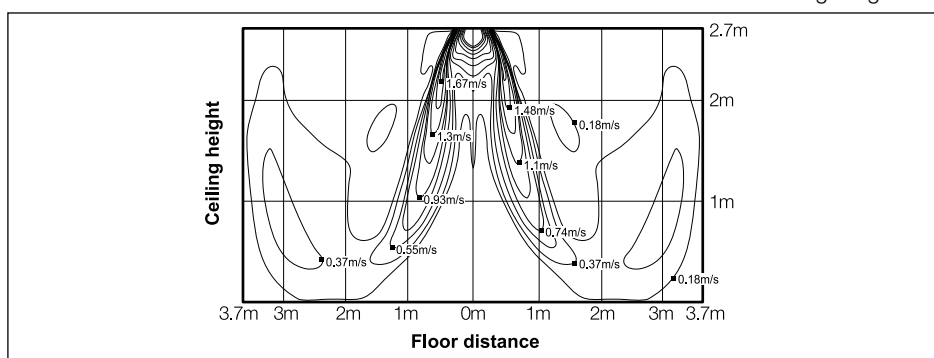
(2) Cooling temperature distribution

◆ Discharge angle : 41°



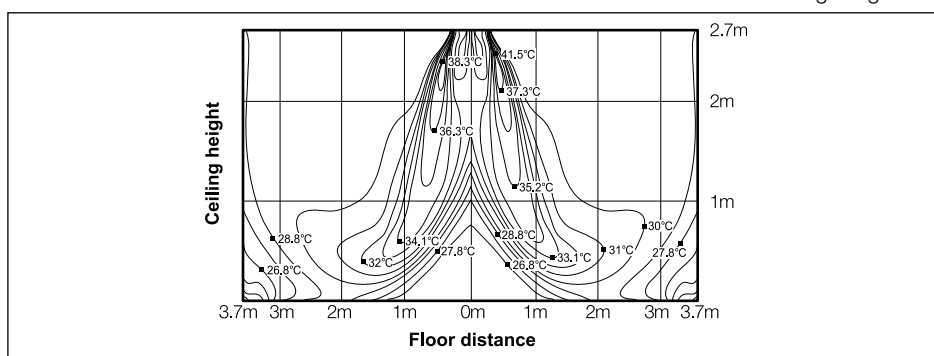
(3) Heating air velocity distribution

◆ Discharge angle : 52°



(4) Heating temperature distribution

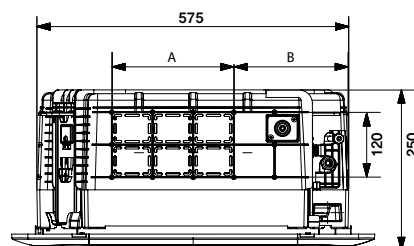
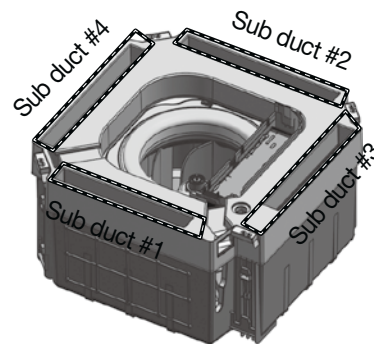
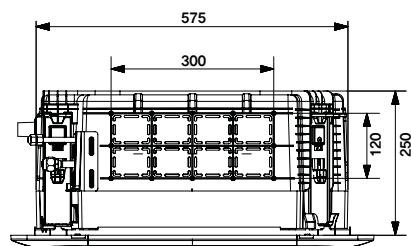
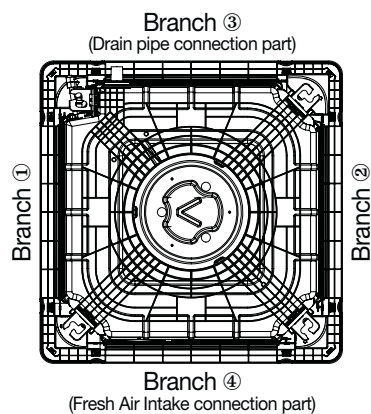
◆ Discharge angle : 52°



2 Mini 4 way cassette

2-8. Sub duct

1) Dimensional drawing



Indoor Unit (Height)		250mm
A	mm	225 (Branch ③), 150 (Branch ④)
B	mm	212.5 (Branch ③), 137.5 (Branch ④)

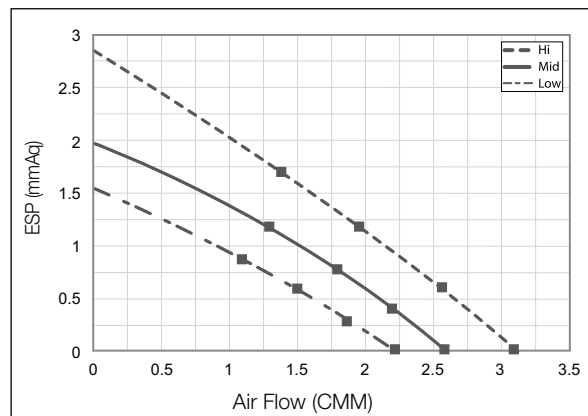
✓ Note

- ◆ Sub duct can be used for 4 directions independently or together.
- ◆ Be sure to seal off the air outlet of the indoor unit to which the sub duct is connected. If not, it may cause water splattering and condensation.

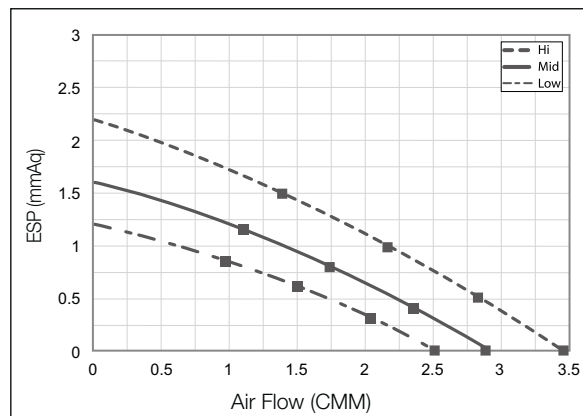
2) P-Q Curve

(1) ACN026NDEHA/EU

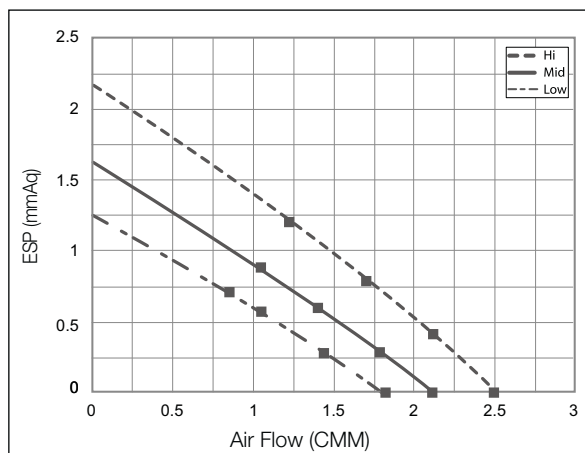
Branch ①



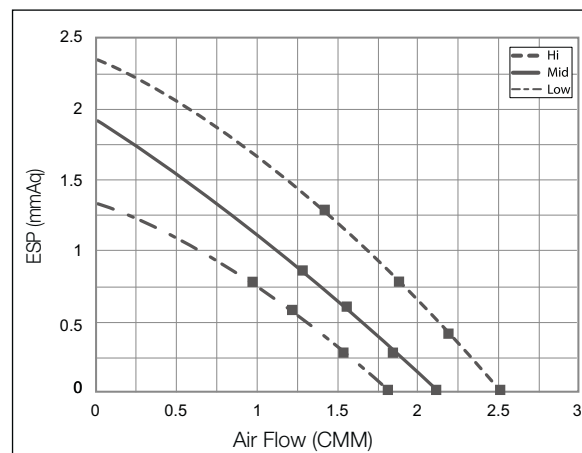
Branch ②



Branch ③

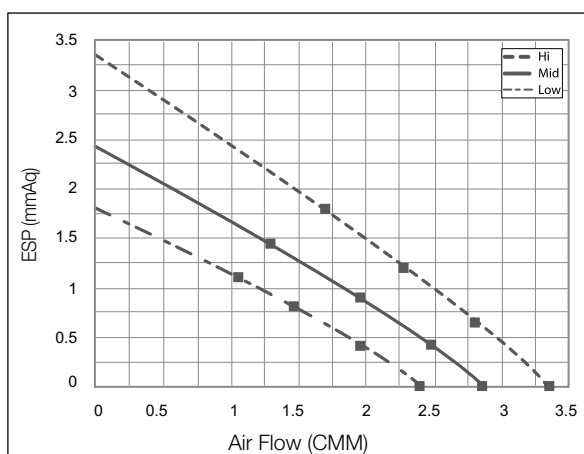


Branch ④

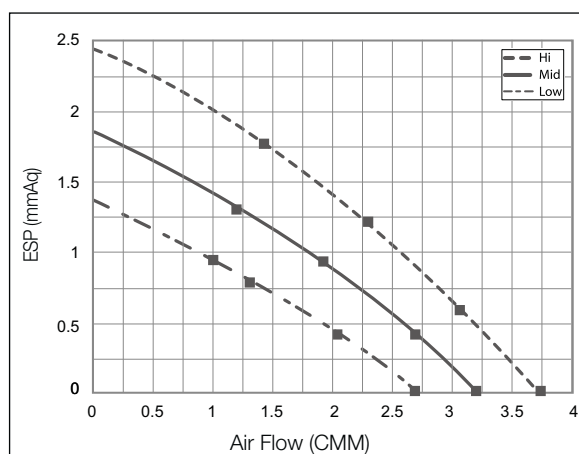


(2) ACN035NDEHA/EU

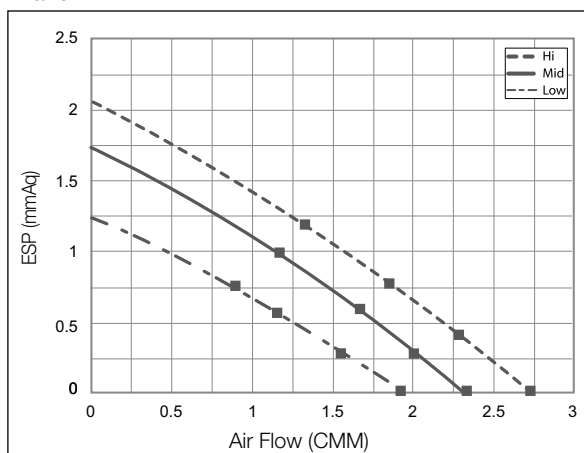
Branch ①



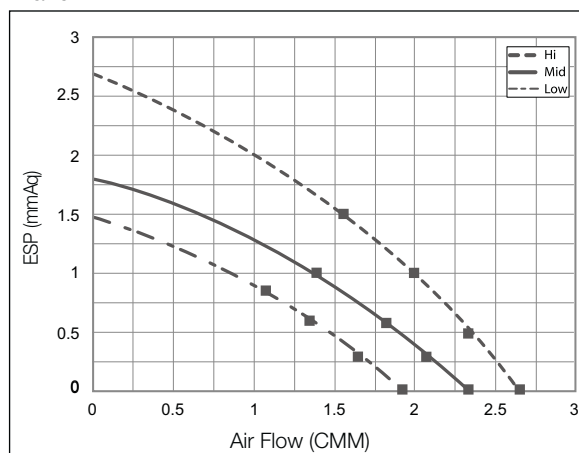
Branch ②



Branch ③



Branch ④



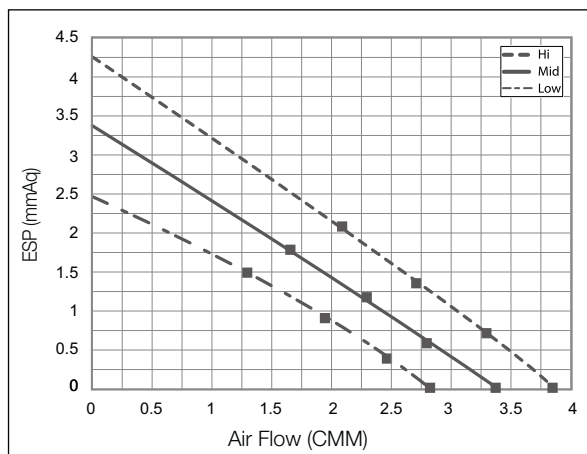
2 Mini 4 way cassette

2-8. Sub duct

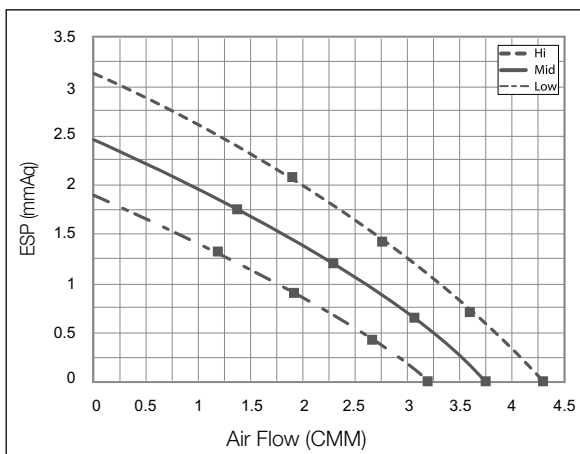
2) P-Q Curve

(3) ACN035NDEHA/EU

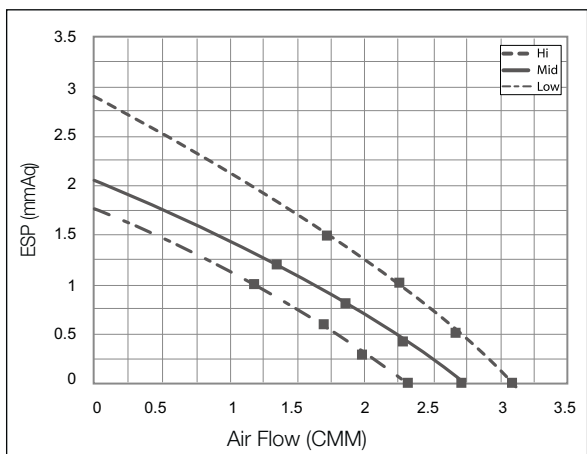
Branch ①



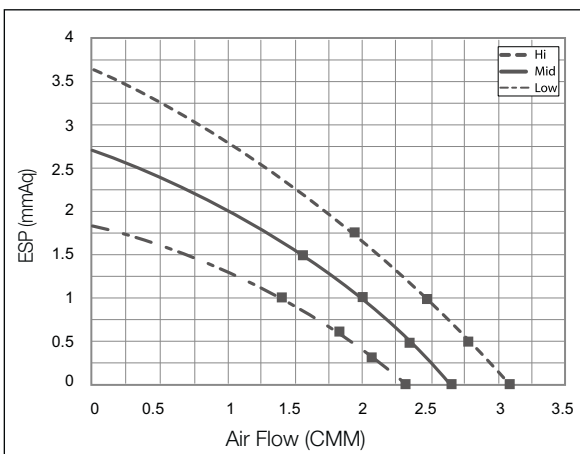
Branch ②



Branch ③

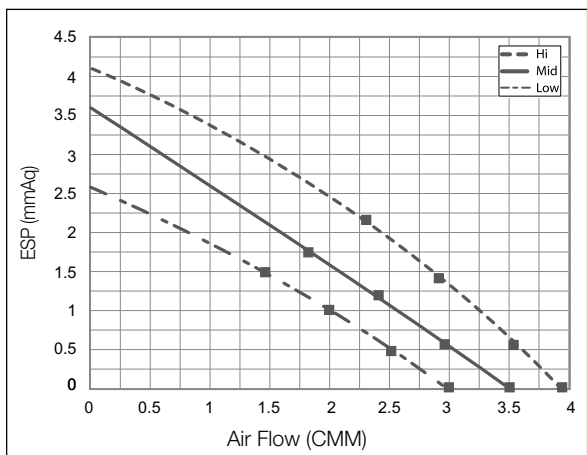


Branch ④

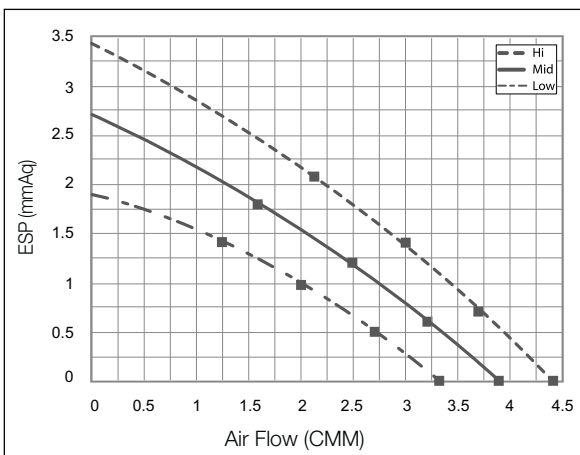


(4) ACN060NDEHA/EU

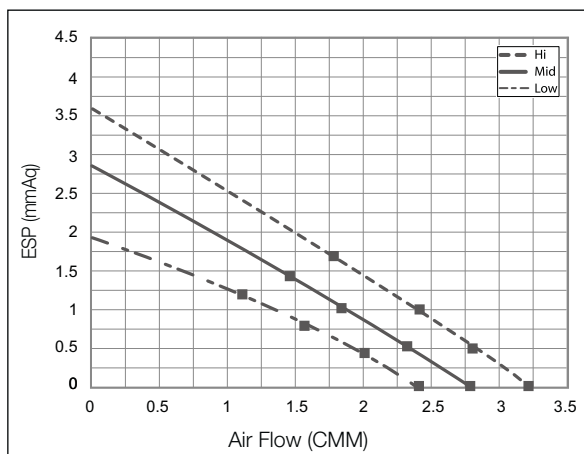
Branch ①



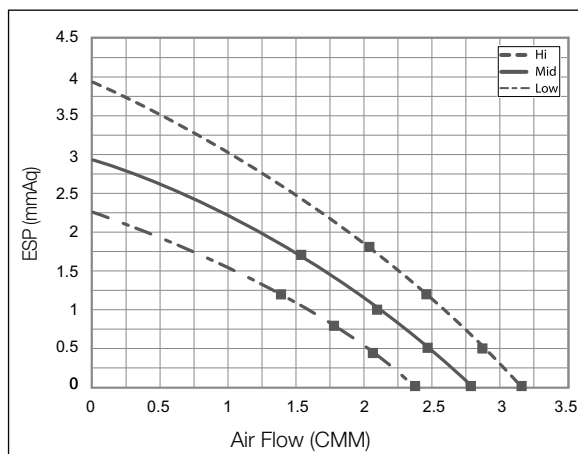
Branch ②



Branch ③

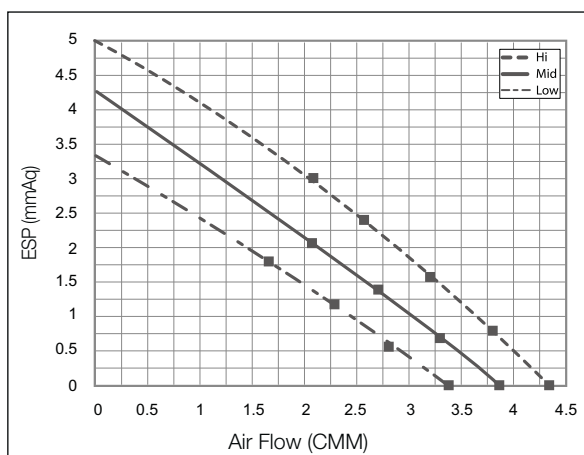


Branch ④

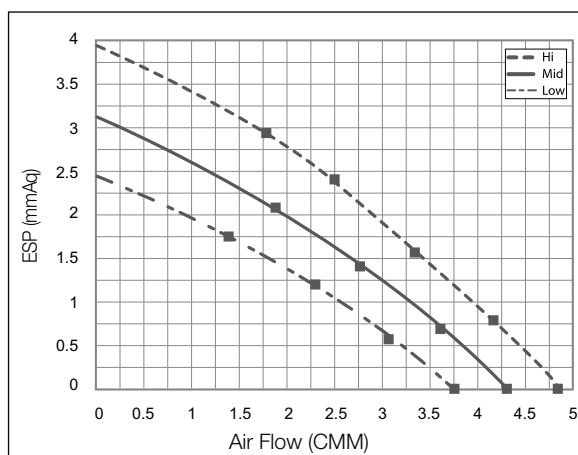


(5) ACN071NDEHA/EU

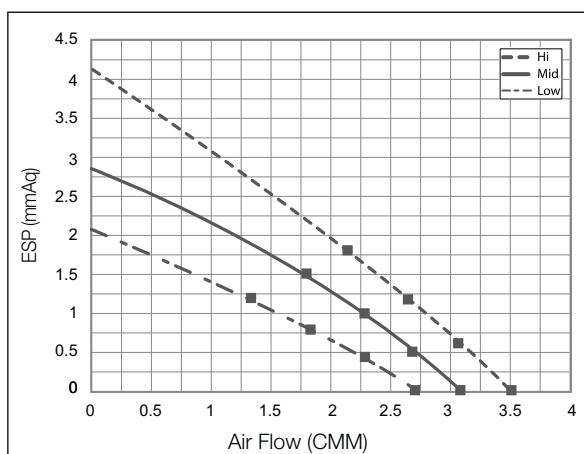
Branch ①



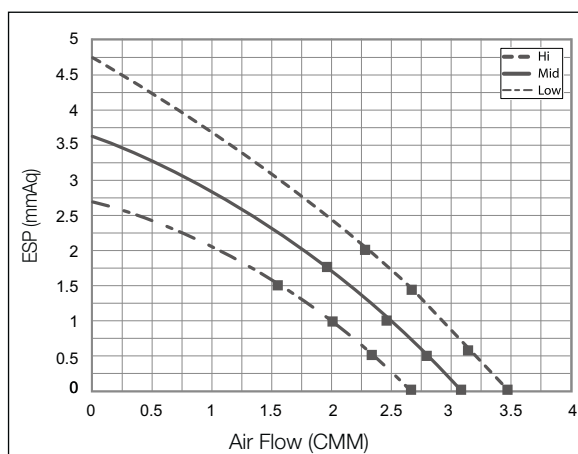
Branch ②



Branch ③



Branch ④





Specifications



3 4 way cassette S

3-1. Specifications.....	48
3-2. Capacity tables	52
3-3. Dimensional drawing	61
3-4. PCB connector lay-out.....	62
3-5. Electrical wiring diagram	63
3-6. Sound pressure level	64
3-7. Temperature and air flow distribution.....	66
3-8. Sub Duct	77

3-1. Specifications

1) Technical specifications

Model Name				Indoor Unit		Outdoor Unit		NS0714DXEA		NS0714PXE		NS0904DXEA		NS0904PXE	
System	Mode					-		RC071DHXE		RC071PHXE		RC090DHXE		RC090PHXE	
								Heat Pump		Heat Pump		Heat Pump		Heat Pump	
	Capacity	Capacity (Nominal)	Cooling ⁽¹⁾	kW	2.2 / 7.1 / 8.0		2.2 / 7.1 / 8.0		3.0 / 9.0 / 10.0		2.5 / 9.0 / 10.0				
			(Min / Std / Max)	Btu/h	7,500 / 24,200 / 27,300		7,500 / 24,200 / 27,300		10,200 / 30,700 / 34,100		8,500 / 30,700 / 34,100				
			Heating ⁽²⁾	kW	1.9 / 8.0 / 9.0		1.9 / 8.0 / 9.0		2.2 / 10.0 / 13.9		2.3 / 10.0 / 13.9				
	(Min / Std / Max)	Btu/h	6,500 / 27,300 / 30,700		6,500 / 27,300 / 30,700		7,500 / 34,100 / 47,400		7,800 / 34,100 / 47,400						
	Power	Power Input (Nominal)	Cooling ⁽¹⁾	kW	0.35 / 2.21 / 4.00		0.35 / 1.92 / 4.00		0.6 / 2.8 / 3.7		0.6 / 2.5 / 3.7				
			(Min / Std / Max)		0.35 / 2.22 / 4.00		0.35 / 1.95 / 4.00		0.46 / 2.77 / 5.2		0.48 / 2.5 / 5.2				
		Current Input (Nominal)	Cooling ⁽¹⁾	A	2.0 / 10.5 / 21.0		2.1 / 9.5 / 18.0		3.0 / 12.5 / 18.7		3.0 / 11.0 / 18.7				
			(Min / Std / Max)		2.0 / 10.5 / 21.0		2.1 / 9.5 / 18.0		2.5 / 12.2 / 22.7		2.4 / 11.0 / 23.0				
	COP	Nominal Cooling		-	3.21		3.70		3.21		3.60				
Nominal Heating		-	3.62		4.10		3.61		4.00						
Energy Grade		Cooling / Heating	-	A / A		A / A		A / A		A / A					
Option Code				-		014077-1660C8 -274750-370000		014077-1360D9 -274750-370020		014077-1560E8 -275A64-3700020		014077-156219 -275A64-370040			
Piping Connections	Liquid Pipe		Ø, mm(inch)	6.35 (1/4)		6.35 (1/4)		9.52 (3/8)		9.52 (3/8)					
	Gas Pipe		Ø, mm(inch)	15.88 (5/8)		15.88 (5/8)		15.88 (5/8)		15.88 (5/8)					
	Installation Limitation	Max. Length	m	50.0		50.0		50.0		50.0					
Refrigerant	Limitation		Max. Height	m		30.0		30.0		30.0					
	Type		-	R410A		R410A		R410A		R410A					
	Control Method		-	EEV		EEV		EEV		EEV					
Factory Charging				kg	1.8		1.8		3.0		3.0				
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				
	Fan	Type		-		Turbo Fan / BLDC		Turbo Fan / BLDC		Turbo Fan / BLDC		Turbo Fan / BLDC			
		Motor		Output	W		-		-		-				
		Number of Unit		EA	1		1		1		1				
		Air Flow Rate	High / Mid / Low	CMM	(C) 19.5 / 16.5 / 14.5 (H) 21.0 / 18.0 / 16.0		(C) 23.0 / 21.0 / 17.5 (H) 22.0 / 18.0 / 16.0		24.5 / 21.0 / 17.5		27.5 / 22.5 / 18.0				
				CFM	(C) 689 / 583 / 512 (H) 742 / 636 / 565		(C) 812 / 742 / 618 (H) 777 / 636 / 565		865 / 742 / 618		971 / 795 / 636				
		External Static Pressure	Min / Std / Max	mmAq	-		-		-		-				
	Pa	-		-		-		-		-					
	Drain	Drain Pipe		Ø, mm	VP25 (OD 32, ID 25)		VP25 (OD 32, ID 25)		VP25 (OD 32, ID 25)		VP25 (OD 32, ID 25)				
	Sound	Sound Pressure ⁽³⁾		High / Mid / Low	dB(A)	36 / 32 / 28		36 / 32 / 28		40 / 36 / 32		42 / 37 / 32			
	External Dimension	Net Weight		kg	15		17		17		19				
		Shipping Weight		kg	20		22		22		24				
		Net Dimensions (WxHxD)		mm	840 x 204 x 840		840 x 246 x 840		840 x 246 x 840		840 x 288 x 840				
		Shipping Dimensions (WxHxD)		mm	898 x 274 x 898		898 x 316 x 898		898 x 316 x 898		898 x 357 x 898				
	Panel Size	Panel model		-	PC4NU(B)SKA / PC4NUSKE		PC4NU(B)SKA / PC4NUSKE		PC4NU(B)SKA / PC4NUSKE		PC4NU(B)SKA / PC4NUSKE				
		Panel Net Weight		kg	5.9		5.9		5.9		5.9				
		Shipping Weight		kg	8.4		8.4		8.4		8.4				
		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				
Additional Accessories	Drain pump	Drain pump	-	Built-in		Built-in		Built-in		Built-in					
		Max. Lifting Height / Displacement	mm / liter/h	750 / 24		750 / 24		750 / 24		750 / 24					
	Air Filter		-	Long life filter		Long life filter		Long life filter		Long life filter					
Outdoor Unit	Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50		1, 2, 220-240, 50		1, 2, 220-240, 50		1, 2, 220-240, 50				
	Compressor	Type		-		Twin BLDC Rotary		Twin BLDC Rotary		Twin BLDC Rotary		Twin BLDC Rotary			
		Model		-		UG4T200FUA4		UG4T200FUA4		UG8T300FUBJU		UG8T300FUBJU			
		Oil	Type	-	POE		POE		POE		POE				
	Initial Charge		cc	650		650		1,250		1,250					
	Fan	Air Flow Rate	Cooling / Heating	CMM	50.0 / 48.0		50.0 / 48.0		63.5 / 63.5		63.5 / 59.0				
				CFM	1,766 / 1,695		1,766 / 1,695		2,243 / 2,243		2,243 / 2,084				
	Sound	Sound Pressure ⁽³⁾	Cooling / Heating	dB(A)	49 / 51		49 / 51		51 / 52		52 / 53				
	External Dimension	Net Weight		kg	55		55		72		72				
		Shipping Weight		kg	59		59		77		77				
		Net Dimensions (WxHxD)		mm	880 x 798 x 310		880 x 798 x 310		940 x 998 x 330		940 x 998 x 330				
		Shipping Dimensions (WxHxD)		mm	1,023 x 891 x 413		1,023 x 891 x 413		995 x 1,096 x 426		995 x 1,096 x 426				
	Operating Temp. Range	Cooling		°C	-15 ~ 50		-15 ~ 50		-15 ~ 50		-15 ~ 50				
Heating		°C	-20 ~ 24		-20 ~ 24		-20 ~ 24		-20 ~ 24						

*Specifications may be subject to change without prior notice for product improvement.

*1) Nominal cooling capacities are based on;

- Indoor temperature : 27°C DB, 19°C WB / Outdoor temperature : 35°C DB, 24°C WB
- Equivalent refrigerant piping : 5m, Level differences : 0m

*2) Nominal heating capacities are based on;

- Indoor temperature : 20°C DB, 15°C WB / Outdoor temperature : 7°C DB, 6°C WB
- Equivalent refrigerant piping : 5m, Level differences : 0m

*3) Sound pressure was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

Model Name		Indoor Unit		Outdoor Unit		NS1004DXEA	NS1004DXEA	NS1004PXE	NS1004PXE	NS1004ZXE
						RC100DHXEA	RC100DHXGA	RC100PHXEA	RC100PHXGA	RC100ZHXE
System	Mode				-	Heat Pump	Heat Pump	Heat Pump	Heat Pump	Heat Pump
	Capacity	Capacity (Nominal)	Cooling ¹⁾	kW	3.2 / 10.0 / 12.0	4.0 / 10.0 / 12.0	3.5 / 10.0 / 12.0	3.5 / 10.0 / 12.0	4.4 / 10.0 / 12.0	
			(Min / Std / Max)	Btu/h	10,900 / 34,100 / 40,900	13,600 / 34,100 / 40,900	11,900 / 34,100 / 40,900	11,900 / 34,100 / 40,900	15,000 / 34,100 / 40,900	
			Heating ²⁾	kW	2.2 / 11.2 / 15.5	3.5 / 11.2 / 15.5	3.5 / 11.2 / 15.5	3.5 / 11.2 / 15.5	3.5 / 11.2 / 15.5	
	(Min / Std / Max)	Btu/h	7,500 / 38,200 / 52,900	11,900 / 38,200 / 52,900	11,900 / 38,200 / 52,900	11,900 / 38,200 / 52,900	11,900 / 38,200 / 52,900			
	Power	Power Input (Nominal)	Cooling ¹⁾	kW	0.6 / 3.12 / 4.7	0.9 / 3.12 / 4.7	0.8 / 2.38 / 3.8	0.8 / 2.38 / 3.8	1.05 / 2.21 / 3.1	
			(Min / Std / Max)		0.5 / 3.1 / 5.2	0.7 / 3.1 / 5.5	0.7 / 2.49 / 4.5	0.7 / 2.49 / 4.5	0.62 / 2.34 / 4.6	
		Current Input (Nominal)	Cooling ¹⁾	A	3.0 / 13.8 / 20.5	1.6 / 5.0 / 7.8	3.7 / 10.5 / 24.0	2.1 / 4.0 / 12.0	4.6 / 9.7 / 24.0	
			(Min / Std / Max)		2.6 / 13.8 / 24.0	1.3 / 5.0 / 16.1	3.5 / 11.5 / 24.0	2.1 / 4.2 / 16.1	3.0 / 10.3 / 24.0	
	COP	Nominal Cooling		-	3.21	3.21	4.20	4.20	4.52	
		Nominal Heating		-	3.61	3.61	4.50	4.50	4.80	
		Energy Grade	Cooling / Heating	-	A / A	A / A	A / A	A / A	A / A	
	Option Code					-	014077-156219 -276470-3700020	014077-156219 -276470-3700020	014077-157239 -276470-370040	014077-157239 -276470-370040
Piping Connections	Liquid Pipe		Ø, mm(inch)		9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	
	Gas Pipe		Ø, mm(inch)		15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	
Refrigerant	Installation Limitation	Max. Length	m	50.0	50.0	75.0	75.0	75.0		
		Max. Height	m	30.0	30.0	30.0	30.0	30.0		
	Type		-	R410A	R410A	R410A	R410A	R410A		
	Control Method		-	EEV	EEV	EEV	EEV	EEV		
	Factory Charging		kg	3.0	3.1	3.4	3.4	3.8		
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	1, 2, 220-240, 50	
Fan	Type				-	Turbo Fan / BLDC	Turbo Fan / BLDC	Turbo Fan / BLDC	Turbo Fan / BLDC	
	Motor	Output	W	-	-	-	-	-		
	Number of Unit		EA	1	1	1	1	1		
	Air Flow Rate	High / Mid / Low	CMM	27.5 / 23.0 / 18.0	27.5 / 23.0 / 18.0	30.0 / 24.0 / 18.0	30.0 / 24.0 / 18.0	32.0 / 25.0 / 19.0		
	External Static Pressure	Min / Std / Max	mmAq	-	-	-	-	-		
Drain	Drain Pipe			Ø, mm	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)	
Sound	Sound Pressure ³⁾	High / Mid / Low	dB(A)	44 / 39 / 34	44 / 39 / 34	44 / 39 / 34	44 / 39 / 34	45 / 38.5 / 32		
External Dimension	Net Weight		kg	17	17	21	21	21		
	Shipping Weight		kg	22	22	26	26	26		
	Net Dimensions (WxHxD)		mm	840 x 246 x 840	840 x 246 x 840	840 x 288 x 840	840 x 288 x 840	840 x 288 x 840		
	Shipping Dimensions (WxHxD)		mm	898 x 316 x 898	898 x 316 x 898	898 x 357 x 898	898 x 357 x 898	898 x 357 x 898		
Panel Size	Panel model		-	PC4NU(B)SKA / PC4NUSKE	PC4NU(B)SKA / PC4NUSKE	PC4NU(B)SKA / PC4NUSKE	PC4NU(B)SKA / PC4NUSKE	PC4NU(B)SKA / PC4NUSKE		
	Panel Net Weight		kg	5.9	5.9	5.9	5.9	5.9		
	Shipping Weight		kg	8.4	8.4	8.4	8.4	8.4		
	Net Dimensions (WxHxD)		mm	950 x 45 x 950	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	1,005 x 100 x 1,005		
Additional Accessories	Drain pump	Drain pump	-	Built-in	Built-in	Built-in	Built-in	Built-in		
		Max. Lifting Height / Displacement	mm / liter/h	750 / 24	750 / 24	750 / 24	750 / 24	750 / 24		
	Air Filter			-	Long life filter	Long life filter	Long life filter	Long life filter		
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	1, 2, 220-240, 50	
Compressor	Type				-	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary	
	Model				-	UG8T300FUBJU	UG5T450FUFJX	UG5T450FUEJX	UG5T450FUFJX	
Fan	Oil	Type	-	POE	POE	POE	POE	POE		
		Initial Charge	cc	1,250	1,750	1,750	1,750	1,750		
Sound	Air Flow Rate	Cooling / Heating	CMM	68.0 / 68.0	65.5 / 65.5	90.5 / 83.0	90.5 / 83.0	101.0 / 82.5		
			CFM	2,401 / 2,401	2,313 / 2,313	3,196 / 2,931	3,196 / 2,931	3,567 / 2,914		
External Dimension	Sound Pressure ³⁾	Cooling / Heating	dB(A)	52 / 53	52 / 53	49 / 51	49 / 51	49 / 51		
	Net Weight		kg	72	81	88	91	98		
	Shipping Weight		kg	77	86	98	101	108		
Operating Temp. Range	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	940 x 1,420 x 330		
	Shipping Dimensions (WxHxD)		mm	995 x 1,096 x 426	995 x 1,096 x 426	995 x 1,338 x 426	995 x 1,338 x 426	995 x 1,548 x 426		
	Cooling		°C	-15 ~ 50	-15 ~ 50	-15 ~ 50	-15 ~ 50	-15 ~ 50		
	Heating		°C	-20 ~ 24	-20 ~ 24	-20 ~ 24	-20 ~ 24	-20 ~ 24		

*Specifications may be subject to change without prior notice for product improvement.

*1) Nominal cooling capacities are based on;
 - Indoor temperature : 27°C DB, 19°C WB / Outdoor temperature : 35°C DB, 24°C WB
 - Equivalent refrigerant piping : 5m, Level differences : 0m

*2) Nominal heating capacities are based on;
 - Indoor temperature : 20°C DB, 15°C WB / Outdoor temperature : 7°C DB, 6°C WB
 - Equivalent refrigerant piping : 5m, Level differences : 0m

*3) Sound pressure was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

3 4 way cassette S

3-1. Specifications

1) Technical specifications

Model Name		Indoor Unit		Outdoor Unit		NS1254DXEA	NS1254DXEA	NS1254PXE	NS1254PXE	
System	Mode			-		RC125DHXEB	RC125DHXGA	RC125PHXE	RC125PHXGA	
						Heat Pump	Heat Pump	Heat Pump	Heat Pump	
	Capacity	Capacity (Nominal)	Cooling ¹⁾	kW	3.5 / 12.5 / 14.0	3.5 / 12.5 / 14.0	3.5 / 12.5 / 14.0	3.5 / 12.5 / 14.0	3.5 / 12.5 / 14.0	
			(Min / Std / Max)	Btu/h	11,900 / 42,700 / 47,800	11,900 / 42,700 / 47,800	11,900 / 42,700 / 47,800	11,900 / 42,700 / 47,800	11,900 / 42,700 / 47,800	
			Heating ²⁾	kW	3.0 / 14.0 / 16.2	3.0 / 14.0 / 16.2	3.5 / 14.0 / 16.2	3.5 / 14.0 / 16.2	3.5 / 14.0 / 16.2	
			(Min / Std / Max)	Btu/h	10,200 / 47,800 / 55,300	10,200 / 47,800 / 55,300	11,900 / 47,800 / 55,300	11,900 / 47,800 / 55,300	11,900 / 47,800 / 55,300	
	Power	Power Input (Nominal)	Cooling ¹⁾	kW	0.8 / 3.89 / 4.5	0.8 / 3.89 / 4.5	0.8 / 3.47 / 4.8	0.8 / 3.47 / 4.8	0.8 / 3.47 / 4.8	
			(Min / Std / Max)		0.81 / 3.88 / 4.88	0.81 / 3.88 / 4.88	0.7 / 3.59 / 4.5	0.7 / 3.59 / 4.5	0.7 / 3.59 / 4.5	
			Current Input (Nominal)	Cooling ¹⁾	A	4.0 / 18.0 / 20.0	2.1 / 6.1 / 12.1	3.7 / 15.5 / 24.0	2.1 / 5.8 / 12.0	2.1 / 5.8 / 12.0
				(Min / Std / Max)		3.5 / 18.0 / 24.0	2.1 / 6.1 / 16.1	3.5 / 16.0 / 24.0	2.1 / 5.8 / 16.1	2.1 / 5.8 / 16.1
	COP	Nominal Cooling		-	3.21	3.21	3.60	3.60	3.60	
		Nominal Heating		-	3.61	3.61	3.90	3.90	3.90	
Energy Grade		Cooling / Heating	-	A / A	A / A	A / A	A / A	A / A		
Option Code			-		014077-15723A -277D8C-370040	014077-15723A -277D8C-370040	014077-15723A -277D8C-370040	014077-15723A -277D8C-370040		
Piping Connections	Liquid Pipe		Ø, mm(inch)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)		
	Gas Pipe		Ø, mm(inch)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)		
	Installation Limitation	Max. Length	m	75.0	75.0	75.0	75.0	75.0		
		Max. Height	m	30.0	30.0	30.0	30.0	30.0		
Refrigerant	Type		-	R410A	R410A	R410A	R410A	R410A		
	Control Method		-	EEV	EEV	EEV	EEV	EEV		
	Factory Charging		kg	2.9	2.9	3.4	3.4	3.4		
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	1, 2, 220-240, 50	
	Fan	Type		-	Turbo Fan / BLDC	Turbo Fan / BLDC	Turbo Fan / BLDC	Turbo Fan / BLDC	Turbo Fan / BLDC	
		Motor		W	-	-	-	-	-	
		Number of Unit		EA	1	1	1	1	1	
		Air Flow Rate	High / Mid / Low	CMM	30.0 / 24.0 / 19.0	30.0 / 24.0 / 19.0	30.0 / 24.0 / 19.0	30.0 / 24.0 / 19.0	30.0 / 24.0 / 19.0	
			CFM	1,059 / 848 / 671	1,059 / 848 / 671	1,059 / 848 / 671	1,059 / 848 / 671	1,059 / 848 / 671	1,059 / 848 / 671	
	External Static Pressure	Min / Std / Max	mmAq	-	-	-	-	-	-	
			Pa	-	-	-	-	-	-	
	Drain Pipe		Ø, mm	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)		
	Sound	Sound Pressure ³⁾	High / Mid / Low	dB(A)	44 / 40 / 36	44 / 40 / 36	44 / 40 / 36	44 / 40 / 36	44 / 40 / 36	
	External Dimension	Net Weight		kg	19	19	21	21	21	
		Shipping Weight		kg	24	24	26	26	26	
		Net Dimensions (WxHxD)		mm	840 x 288 x 840	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	898 x 357 x 898	
	Panel Size	Panel model		-	PC4NU(B)SKA / PC4NUSKE	PC4NU(B)SKA / PC4NUSKE	PC4NU(B)SKA / PC4NUSKE	PC4NU(B)SKA / PC4NUSKE	PC4NU(B)SKA / PC4NUSKE	
		Panel Net Weight		kg	5.9	5.9	5.9	5.9	5.9	
		Shipping Weight		kg	8.4	8.4	8.4	8.4	8.4	
		Net Dimensions (WxHxD)		mm	950 x 45 x 950	950 x 45 x 950	950 x 45 x 950	950 x 45 x 950	950 x 45 x 950	
	Additional Accessories	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	1,005 x 100 x 1,005	
		Drain pump	Drain pump	-	Built-in	Built-in	Built-in	Built-in	Built-in	
			Max. Lifting Height / Displacement	mm / liter/h	750 / 24	750 / 24	750 / 24	750 / 24	750 / 24	
			Air Filter	-	Long life filter	Long life filter	Long life filter	Long life filter	Long life filter	
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	3, 4, 380-415, 50	
	Compressor	Type		-	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary	
		Model		-	UG5T450FUEJX	UG5T450FUFJX	UG5T450FUEJX	UG5T450FUFJX	UG5T450FUFJX	
		Oil	Type	-	POE	POE	POE	POE	POE	
			Initial Charge	cc	1,750	1,750	1,750	1,750	1,750	
	Fan	Air Flow Rate	Cooling / Heating	CMM	90.5 / 90.5	90.5 / 90.5	90.5 / 90.5	90.5 / 90.5	90.5 / 90.5	
			CFM	3,196 / 3,196	3,196 / 3,196	3,196 / 3,196	3,196 / 3,196	3,196 / 3,196	3,196 / 3,196	
	Sound	Sound Pressure ³⁾	Cooling / Heating	dB(A)	51 / 52	51 / 52	51 / 52	51 / 52	51 / 52	
	External Dimension	Net Weight		kg	88	91	88	91	91	
		Shipping Weight		kg	98	101	98	101	101	
		Net Dimensions (WxHxD)		mm	940 x 1,210 x 330	940 x 1,210 x 330	940 x 1,210 x 330	940 x 1,210 x 330	940 x 1,210 x 330	
		Shipping Dimensions (WxHxD)		mm	995 x 1,338 x 426	995 x 1,338 x 426	995 x 1,338 x 426	995 x 1,338 x 426	995 x 1,338 x 426	
	Operating Temp. Range	Cooling		°C	-15 ~ 50	-15 ~ 50	-15 ~ 50	-15 ~ 50	-15 ~ 50	
		Heating		°C	-20 ~ 24	-20 ~ 24	-20 ~ 24	-20 ~ 24	-20 ~ 24	

*Specifications may be subject to change without prior notice for product improvement.

*1) Nominal cooling capacities are based on;

- Indoor temperature : 27°C DB, 19°C WB / Outdoor temperature : 35°C DB, 24°C WB
- Equivalent refrigerant piping : 5m, Level differences : 0m

*2) Nominal heating capacities are based on;

- Indoor temperature : 20°C DB, 15°C WB / Outdoor temperature : 7°C DB, 6°C WB
- Equivalent refrigerant piping : 5m, Level differences : 0m

*3) Sound pressure was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

Model Name		Indoor Unit		NS1404DXEA		NS1404DXEA		NS1404PXE		NS1404PXE	
		Outdoor Unit		RC140DHEB		RC140DHXA		RC140PHXA		RC140PHXA	
System	Mode			Heat Pump		Heat Pump		Heat Pump		Heat Pump	
	Capacity	Capacity (Nominal)	Cooling ^{*1)}	kW	3.5 / 14.0 / 15.5	3.5 / 14.0 / 15.5	3.5 / 14.0 / 15.5	4.4 / 14.0 / 15.5	4.4 / 14.0 / 15.5	4.4 / 14.0 / 15.5	4.4 / 14.0 / 15.5
			(Min / Std / Max)	Btu/h	11,900 / 47,800 / 52,900	11,900 / 47,800 / 52,900	11,900 / 47,800 / 52,900	15,000 / 47,800 / 52,900	15,000 / 47,800 / 52,900	15,000 / 47,800 / 52,900	15,000 / 47,800 / 52,900
			Heating ^{*2)}	kW	3.5 / 16.0 / 18.0	3.5 / 16.0 / 18.0	3.5 / 16.0 / 18.0	3.5 / 16.0 / 20.0	3.5 / 16.0 / 20.0	3.5 / 16.0 / 20.0	3.5 / 16.0 / 20.0
			(Min / Std / Max)	Btu/h	11,900 / 54,600 / 61,400	11,900 / 54,600 / 61,400	11,900 / 54,600 / 61,400	11,900 / 54,600 / 68,200	11,900 / 54,600 / 68,200	11,900 / 54,600 / 68,200	11,900 / 54,600 / 68,200
	Power	Power Input (Nominal)	Cooling ^{*1)}	kW	0.8 / 4.36 / 5.4	0.8 / 4.36 / 5.4	0.8 / 4.36 / 5.4	1.05 / 4.0 / 5.4	1.05 / 4.0 / 5.4	1.05 / 4.0 / 5.4	1.05 / 4.0 / 5.4
			Heating ^{*2)}		0.7 / 4.43 / 6.16	0.7 / 4.43 / 6.16	0.7 / 4.43 / 6.16	0.87 / 4.1 / 6.5	0.87 / 4.1 / 6.5	0.87 / 4.1 / 6.5	0.87 / 4.1 / 6.5
		Current Input (Nominal)	Cooling ^{*1)}	A	3.7 / 20.0 / 24	2.1 / 7.5 / 12.0	2.1 / 7.5 / 12.0	4.6 / 17.8 / 24.0	4.6 / 17.8 / 24.0	2.1 / 7.1 / 12.0	2.1 / 7.1 / 12.0
			Heating ^{*2)}		3.5 / 20.0 / 24	2.1 / 7.4 / 16.1	2.1 / 7.4 / 16.1	4.0 / 18.7 / 28.0	4.0 / 18.7 / 28.0	2.0 / 7.2 / 16.1	2.0 / 7.2 / 16.1
	COP	Nominal Cooling		-	3.21	3.21	3.21	3.50	3.50	3.50	3.50
		Nominal Heating		-	3.61	3.61	3.61	3.90	3.90	3.90	3.90
		Energy Grade	Cooling / Heating	-	A / A	A / A	A / A	A / A	A / A	A / A	A / A
	Option Code				014077-15723B -278CA0-370040	014077-15723B -278CA0-370040	014077-15624B -278CA0-370040	014077-15624B -278CA0-370040	014077-15624B -278CA0-370040	014077-15624B -278CA0-370040	014077-15624B -278CA0-370040
	Piping Connections	Liquid Pipe		Ø, mm(inch)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)
		Gas Pipe		Ø, mm(inch)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)
		Installation Limitation	Max. Length	m	75.0	75.0	75.0	75.0	75.0	75.0	75.0
			Max. Height	m	30.0	30.0	30.0	30.0	30.0	30.0	30.0
	Refrigerant	Type		-	R410A	R410A	R410A	R410A	R410A	R410A	R410A
		Control Method		-	EEV	EEV	EEV	EEV	EEV	EEV	EEV
		Factory Charging		kg	3.4	3.4	3.4	3.8	3.8	3.8	3.8
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	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50
	Fan	Type		-	Turbo Fan / BLDC	Turbo Fan / BLDC	Turbo Fan / BLDC	Turbo Fan / BLDC	Turbo Fan / BLDC	Turbo Fan / BLDC	Turbo Fan / BLDC
		Motor		W	-	-	-	-	-	-	-
		Number of Unit		EA	1	1	1	1	1	1	1
		Air Flow Rate	High / Mid / Low	CMM	30.0 / 25.5 / 20.5	30.0 / 25.5 / 20.5	30.0 / 25.5 / 20.5	32.0 / 26.0 / 21.0	32.0 / 26.0 / 21.0	32.0 / 26.0 / 21.0	32.0 / 26.0 / 21.0
			CFM	1,059 / 901 / 724	1,059 / 901 / 724	1,059 / 901 / 724	1,130 / 918 / 742	1,130 / 918 / 742	1,130 / 918 / 742	1,130 / 918 / 742	1,130 / 918 / 742
	External Static Pressure	Min / Std / Max	mmAq	-	-	-	-	-	-	-	-
			Pa	-	-	-	-	-	-	-	-
	Drain	Drain Pipe		Ø, mm	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)
		Sound Pressure ^{*3)}		High / Mid / Low	dB(A)	45 / 41.5 / 38	45 / 41.5 / 38	45 / 41.5 / 38	45 / 41.5 / 38	45 / 41.5 / 38	45 / 41.5 / 38
	External Dimension	Net Weight		kg	21	21	21	21	21	21	21
		Shipping Weight		kg	26	26	26	26	26	26	26
		Net Dimensions (WxHxD)		mm	840 x 288 x 840	840 x 288 x 840	840 x 288 x 840	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	898 x 357 x 898	898 x 357 x 898	898 x 357 x 898
	Panel Size	Panel model		-	PC4NU(B)SKA / PC4NUSKE	PC4NU(B)SKA / PC4NUSKE	PC4NU(B)SKA / PC4NUSKE	PC4NU(B)SKA / PC4NUSKE	PC4NU(B)SKA / PC4NUSKE	PC4NU(B)SKA / PC4NUSKE	PC4NU(B)SKA / PC4NUSKE
		Panel Net Weight		kg	5.9	5.9	5.9	5.9	5.9	5.9	5.9
		Shipping Weight		kg	8.4	8.4	8.4	8.4	8.4	8.4	8.4
		Net Dimensions (WxHxD)		mm	950 x 45 x 950	950 x 45 x 950	950 x 45 x 950	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	1,005 x 100 x 1,005	1,005 x 100 x 1,005	1,005 x 100 x 1,005
	Additional Accessories	Drain pump	Drain pump	-	Built-in	Built-in	Built-in	Built-in	Built-in	Built-in	Built-in
			Max. Lifting Height / Displacement	mm / liter/h	750 / 24	750 / 24	750 / 24	750 / 24	750 / 24	750 / 24	750 / 24
		Air Filter		-	Long life filter	Long life filter	Long life filter	Long life filter	Long life filter	Long life filter	Long life filter
Outdoor Unit	Power Supply		Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50
	Compressor	Type		-	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary
		Model		-	UG5T450FUEJX	UG5T450FUEJX	UG5T450FUEJX	UG5T450FUEJX	UG5T450FUEJX	UG5T450FUEJX	UG5T450FUEJX
		Oil	Type	-	POE	POE	POE	POE	POE	POE	POE
			Initial Charge	cc	1,750	1,750	1,750	1,750	1,750	1,750	1,750
	Fan	Air Flow Rate	Cooling / Heating	CMM	90.5 / 90.5	90.5 / 90.5	90.5 / 90.5	101.0 / 101.0	101.0 / 101.0	101.0 / 101.0	101.0 / 101.0
			CFM	3,196 / 3,196	3,196 / 3,196	3,196 / 3,196	3,567 / 3,567	3,567 / 3,567	3,567 / 3,567	3,567 / 3,567	3,567 / 3,567
	Sound	Sound Pressure ^{*3)}	Cooling / Heating	dB(A)	52 / 54	52 / 54	52 / 54	51 / 53	51 / 53	51 / 53	51 / 53
	External Dimension	Net Weight		kg	88	91	98	101	101	101	101
		Shipping Weight		kg	98	101	108	111	111	111	111
		Net Dimensions (WxHxD)		mm	940 x 1,210 x 330	940 x 1,210 x 330	940 x 1,420 x 330	940 x 1,420 x 330	940 x 1,420 x 330	940 x 1,420 x 330	940 x 1,420 x 330
		Shipping Dimensions (WxHxD)		mm	995 x 1,338 x 426	995 x 1,338 x 426	995 x 1,548 x 426	995 x 1,548 x 426	995 x 1,548 x 426	995 x 1,548 x 426	995 x 1,548 x 426
	Operating Temp. Range	Cooling		°C	-15 ~ 50	-15 ~ 50	-15 ~ 50	-15 ~ 50	-15 ~ 50	-15 ~ 50	-15 ~ 50
		Heating		°C	-20 ~ 24	-20 ~ 24	-20 ~ 24	-20 ~ 24	-20 ~ 24	-20 ~ 24	-20 ~ 24

*Specifications may be subject to change without prior notice for product improvement.

*1) Nominal cooling capacities are based on;

- Indoor temperature : 27°C DB, 19°C WB / Outdoor temperature : 35°C DB, 24°C WB
- Equivalent refrigerant piping : 5m, Level differences : 0m

*2) Nominal heating capacities are based on;

- Indoor temperature : 20°C DB, 15°C WB / Outdoor temperature : 7°C DB, 6°C WB
- Equivalent refrigerant piping : 5m, Level differences : 0m

*3) Sound pressure was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

3-2. Capacity tables

1) RC071DHXEA + NS0714DXEA

(1) Cooling

TC(Total Capacity, kW), SHC(Sensible Heat Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)														
		-15			21			35			43			50		
WB	DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	6.67	5.00	1.67	7.29	5.47	1.59	6.60	4.95	2.05	6.70	5.03	3.08	5.08	3.81	2.64
16	22	6.84	5.13	1.71	7.47	5.60	1.63	6.76	5.07	2.11	6.87	5.15	3.16	5.21	3.91	2.70
18	25	7.00	5.25	1.75	7.65	5.74	1.67	6.93	5.20	2.16	7.03	5.28	3.24	5.33	4.00	2.77
19	27	7.18	5.38	1.79	7.84	5.88	1.71	7.10	5.33	2.21	7.21	5.41	3.32	5.47	4.10	2.84
22	30	7.35	5.51	1.84	8.03	6.02	1.75	7.27	5.45	2.26	7.38	5.53	3.40	5.60	4.20	2.90
24	32	7.53	5.64	1.88	8.22	6.16	1.80	7.44	5.58	2.32	7.56	5.67	3.48	5.73	4.30	2.97

(2) Heating

TC(Total Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)							
		-20		-10		7		24	
DB		TC	PI	TC	PI	TC	PI	TC	PI
16		4.49	2.34	6.58	2.81	8.16	2.26	9.67	2.47
18		4.45	2.32	6.52	2.78	8.08	2.24	9.57	2.45
20		4.40	2.30	6.45	2.76	8.00	2.22	9.48	2.43
21		4.36	2.28	6.39	2.73	7.92	2.20	9.38	2.40
22		4.32	2.25	6.32	2.70	7.84	2.18	9.29	2.38
24		4.27	2.23	6.26	2.67	7.76	2.15	9.20	2.35

2) RC071PHXEA + NS0714PXEA

(1) Cooling

TC(Total Capacity, kW), SHC(Sensible Heat Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)														
		-15			21			35			43			50		
WB	DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	7.07	5.30	1.67	7.64	5.73	1.65	6.60	4.95	1.79	6.83	5.12	2.97	5.30	3.98	2.58
16	22	7.24	5.43	1.71	7.83	5.87	1.69	6.76	5.07	1.83	7.00	5.25	3.04	5.43	4.08	2.64
18	25	7.42	5.56	1.76	8.02	6.01	1.73	6.93	5.20	1.87	7.17	5.38	3.12	5.57	4.18	2.71
19	27	7.60	5.70	1.80	8.22	6.16	1.77	7.10	5.33	1.92	7.35	5.51	3.19	5.71	4.28	2.77
22	30	7.78	5.84	1.84	8.41	6.31	1.81	7.27	5.45	1.97	7.52	5.64	3.27	5.84	4.38	2.84
24	32	7.97	5.98	1.89	8.61	6.46	1.86	7.44	5.58	2.01	7.70	5.78	3.35	5.98	4.49	2.91

(2) Heating

TC(Total Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)							
		-20		-10		7		24	
DB		TC	PI	TC	PI	TC	PI	TC	PI
16		4.89	2.26	6.72	2.62	8.16	1.99	9.68	2.35
18		4.84	2.24	6.65	2.60	8.08	1.97	9.58	2.33
20		4.79	2.22	6.58	2.57	8.00	1.95	9.49	2.30
21		4.74	2.20	6.52	2.55	7.92	1.93	9.40	2.28
22		4.69	2.17	6.45	2.52	7.84	1.91	9.30	2.26
24		4.65	2.15	6.39	2.50	7.76	1.89	9.21	2.24

✓ Note

- ◆ Ratings shown are net capacities.
- ◆ Capacities are based on following conditions;
 - Equivalent refrigerant piping length : 5m / Level difference : 0m.

3) RC090DHXEA + NS0904DXEA

(1) Cooling

TC(Total Capacity, kW), SHC(Sensible Heat Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)														
		-15			21			35			43			50		
WB	DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	9.63	7.70	1.97	10.28	8.22	2.75	8.37	6.69	2.60	8.49	6.79	3.89	6.32	5.06	3.16
16	22	9.86	7.89	2.02	10.53	8.43	2.82	8.57	6.86	2.67	8.70	6.96	3.99	6.48	5.18	3.24
18	25	10.11	8.09	2.07	10.79	8.63	2.89	8.78	7.03	2.73	8.91	7.13	4.09	6.64	5.31	3.32
19	27	10.36	8.28	2.12	11.06	8.84	2.96	9.00	7.20	2.80	9.13	7.30	4.19	6.80	5.44	3.40
22	30	10.60	8.48	2.17	11.32	9.06	3.03	9.22	7.37	2.87	9.35	7.48	4.29	6.96	5.57	3.48
24	32	10.86	8.69	2.22	11.59	9.27	3.10	9.44	7.55	2.94	9.57	7.66	4.39	7.13	5.70	3.57

(2) Heating

TC(Total Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)							
		-20		-10		7		24	
DB		TC	PI	TC	PI	TC	PI	TC	PI
16		7.13	3.49	9.29	4.17	10.20	2.83	10.01	2.79
18		7.06	3.46	9.20	4.13	10.10	2.80	9.91	2.76
20		6.99	3.42	9.11	4.09	10.00	2.77	9.81	2.74
21		6.92	3.39	9.02	4.05	9.90	2.74	9.71	2.71
22		6.85	3.35	8.93	4.00	9.80	2.71	9.61	2.68
24		6.78	3.32	8.84	3.96	9.70	2.69	9.52	2.65

4) RC090PHXEA + NS0904PXEA

(1) Cooling

TC(Total Capacity, kW), SHC(Sensible Heat Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)														
		-15			21			35			43			50		
WB	DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	9.99	7.99	1.87	10.67	8.54	2.78	8.37	6.69	2.32	8.63	6.90	3.81	6.51	5.21	3.07
16	22	10.23	8.19	1.92	10.94	8.75	2.85	8.57	6.86	2.38	8.84	7.07	3.91	6.67	5.33	3.14
18	25	10.48	8.39	1.96	11.21	8.97	2.92	8.78	7.03	2.44	9.06	7.24	4.00	6.83	5.47	3.22
19	27	10.74	8.59	2.01	11.48	9.19	2.99	9.00	7.20	2.50	9.28	7.42	4.10	7.00	5.60	3.30
22	30	11.00	8.80	2.06	11.76	9.41	3.06	9.22	7.37	2.56	9.50	7.60	4.20	7.17	5.73	3.38
24	32	11.26	9.01	2.11	12.04	9.63	3.14	9.44	7.55	2.62	9.73	7.78	4.30	7.34	5.87	3.46

(2) Heating

TC(Total Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)							
		-20		-10		7		24	
DB		TC	PI	TC	PI	TC	PI	TC	PI
16		6.87	3.25	9.33	3.83	10.20	2.55	13.14	2.88
18		6.80	3.22	9.24	3.79	10.10	2.53	13.01	2.85
20		6.73	3.19	9.15	3.76	10.00	2.50	12.88	2.82
21		6.66	3.16	9.06	3.72	9.90	2.48	12.76	2.79
22		6.60	3.12	8.97	3.68	9.80	2.45	12.63	2.76
24		6.53	3.09	8.88	3.65	9.70	2.43	12.50	2.74

☒ Note

- ◆ Ratings shown are net capacities.
- ◆ Capacities are based on following conditions;
 - Equivalent refrigerant piping length : 5m / Level difference : 0m.

3 4 way cassette S

3-2. Capacity tables

5) RC100DHXEA + NS1004DXEA

(1) Cooling

TC(Total Capacity, kW), SHC(Sensible Heat Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)														
		-15			21			35			43			50		
WB	DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	10.23	8.18	2.73	11.37	9.10	3.57	9.30	7.44	2.90	8.56	6.84	4.28	6.42	5.13	3.53
16	22	10.48	8.38	2.80	11.65	9.32	3.66	9.53	7.62	2.97	8.77	7.01	4.38	6.57	5.26	3.62
18	25	10.74	8.59	2.87	11.94	9.55	3.75	9.76	7.81	3.05	8.98	7.18	4.49	6.73	5.39	3.71
19	27	11.00	8.80	2.94	12.23	9.78	3.84	10.00	8.00	3.12	9.20	7.36	4.60	6.90	5.52	3.80
22	30	11.27	9.01	3.01	12.52	10.02	3.93	10.24	8.19	3.19	9.42	7.54	4.71	7.07	5.65	3.89
24	32	11.54	9.23	3.08	12.83	10.26	4.03	10.49	8.39	3.27	9.65	7.72	4.83	7.24	5.79	3.98

(2) Heating

TC(Total Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)							
		-20		-10		7		24	
DB		TC	PI	TC	PI	TC	PI	TC	PI
16		7.96	4.28	10.21	4.75	11.43	3.16	14.44	4.35
18		7.88	4.24	10.11	4.71	11.31	3.13	14.30	4.31
20		7.80	4.20	10.01	4.66	11.20	3.10	14.16	4.27
21		7.72	4.16	9.91	4.61	11.09	3.07	14.02	4.22
22		7.64	4.12	9.81	4.57	10.98	3.04	13.88	4.18
24		7.57	4.08	9.71	4.52	10.87	3.01	13.74	4.14

6) RC100DHXGA + NS1004DXEA

(1) Cooling

TC(Total Capacity, kW), SHC(Sensible Heat Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)														
		-15			21			35			43			50		
WB	DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	8.55	6.84	1.86	9.67	7.73	2.04	9.30	7.44	2.90	8.86	7.09	4.24	6.69	5.36	3.72
16	22	8.76	7.01	1.91	9.91	7.92	2.09	9.53	7.62	2.97	9.08	7.26	4.34	6.86	5.49	3.81
18	25	8.98	7.18	1.95	10.15	8.12	2.14	9.76	7.81	3.05	9.30	7.44	4.45	7.03	5.62	3.90
19	27	9.20	7.36	2.00	10.40	8.32	2.19	10.00	8.00	3.12	9.53	7.63	4.56	7.20	5.76	4.00
22	30	9.42	7.54	2.05	10.65	8.52	2.24	10.24	8.19	3.19	9.76	7.81	4.67	7.37	5.90	4.10
24	32	9.65	7.72	2.10	10.90	8.72	2.30	10.49	8.39	3.27	10.00	8.00	4.78	7.55	6.04	4.19

(2) Heating

TC(Total Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)							
		-20		-10		7		24	
DB		TC	PI	TC	PI	TC	PI	TC	PI
16		8.14	4.36	10.39	4.88	11.43	3.16	14.39	3.72
18		8.06	4.31	10.28	4.83	11.31	3.13	14.25	3.69
20		7.98	4.27	10.18	4.78	11.20	3.10	14.11	3.65
21		7.90	4.23	10.08	4.73	11.09	3.07	13.97	3.61
22		7.82	4.19	9.98	4.69	10.98	3.04	13.83	3.58
24		7.74	4.15	9.88	4.64	10.87	3.01	13.69	3.54

✓ Note

- ◆ Ratings shown are net capacities.
- ◆ Capacities are based on following conditions;
 - Equivalent refrigerant piping length : 5m / Level difference : 0m.

7) RC100PHXEA + NS1004PXEA

(1) Cooling

TC(Total Capacity, kW), SHC(Sensible Heat Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)														
		-15			21			35			43			50		
WB	DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	10.32	8.26	1.77	11.44	9.15	3.25	9.30	7.44	2.21	9.48	7.59	4.46	6.51	5.21	3.35
16	22	10.57	8.46	1.81	11.72	9.37	3.33	9.53	7.62	2.27	9.72	7.77	4.57	6.67	5.33	3.43
18	25	10.83	8.67	1.85	12.00	9.60	3.42	9.76	7.81	2.32	9.96	7.96	4.68	6.83	5.47	3.51
19	27	11.10	8.88	1.90	12.30	9.84	3.50	10.00	8.00	2.38	10.20	8.16	4.80	7.00	5.60	3.60
22	30	11.37	9.09	1.95	12.60	10.08	3.58	10.24	8.19	2.44	10.44	8.36	4.92	7.17	5.73	3.69
24	32	11.64	9.31	1.99	12.90	10.32	3.67	10.49	8.39	2.50	10.70	8.56	5.03	7.34	5.87	3.77

(2) Heating

TC(Total Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)							
		-20		-10		7		24	
DB		TC	PI	TC	PI	TC	PI	TC	PI
16		10.71	5.00	11.22	4.90	11.43	2.54	15.61	3.88
18		10.61	4.95	11.11	4.85	11.31	2.51	15.45	3.84
20		10.50	4.90	11.00	4.80	11.20	2.49	15.30	3.80
21		10.40	4.85	10.89	4.75	11.09	2.47	15.15	3.76
22		10.29	4.80	10.78	4.70	10.98	2.44	15.00	3.72
24		10.19	4.75	10.67	4.66	10.87	2.42	14.85	3.69

8) RC100PHXGA + NS1004PXEA

(1) Cooling

TC(Total Capacity, kW), SHC(Sensible Heat Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)														
		-15			21			35			43			50		
WB	DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	10.51	8.40	1.86	11.62	9.30	2.23	9.30	7.44	2.21	9.76	7.81	4.28	6.51	5.21	3.35
16	22	10.76	8.61	1.91	11.91	9.53	2.29	9.53	7.62	2.27	10.00	8.00	4.38	6.67	5.33	3.43
18	25	11.03	8.82	1.95	12.20	9.76	2.34	9.76	7.81	2.32	10.25	8.20	4.49	6.83	5.47	3.51
19	27	11.30	9.04	2.00	12.50	10.00	2.40	10.00	8.00	2.38	10.50	8.40	4.60	7.00	5.60	3.60
22	30	11.57	9.26	2.05	12.80	10.24	2.46	10.24	8.19	2.44	10.75	8.60	4.71	7.17	5.73	3.69
24	32	11.85	9.48	2.10	13.11	10.49	2.52	10.49	8.39	2.50	11.01	8.81	4.82	7.34	5.87	3.77

(2) Heating

TC(Total Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)							
		-20		-10		7		24	
DB		TC	PI	TC	PI	TC	PI	TC	PI
16		11.02	5.41	11.73	5.18	11.43	2.54	17.33	4.16
18		10.91	5.35	11.62	5.13	11.31	2.51	17.16	4.12
20		10.80	5.30	11.50	5.08	11.20	2.49	16.99	4.08
21		10.69	5.25	11.39	5.02	11.09	2.47	16.82	4.04
22		10.59	5.19	11.27	4.97	10.98	2.44	16.65	4.00
24		10.48	5.14	11.16	4.92	10.87	2.42	16.49	3.96

☒ Note

- ◆ Ratings shown are net capacities.
- ◆ Capacities are based on following conditions;
 - Equivalent refrigerant piping length : 5m / Level difference : 0m.

3 4 way cassette S

3-2. Capacity tables

9) RC100ZHxEA + NS1004ZXEA

(1) Cooling

TC(Total Capacity, kW), SHC(Sensible Heat Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)														
		-15			21			35			43			50		
WB	DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	10.47	8.38	1.63	11.62	9.30	1.86	9.30	7.44	2.06	9.76	7.81	3.40	8.16	6.53	3.87
16	22	10.73	8.59	1.67	11.91	9.53	1.91	9.53	7.62	2.11	10.00	8.00	3.48	8.36	6.69	3.96
18	25	11.00	8.80	1.71	12.20	9.76	1.95	9.76	7.81	2.17	10.25	8.20	3.57	8.56	6.85	4.06
19	27	11.27	9.01	1.75	12.50	10.00	2.00	10.00	8.00	2.22	10.50	8.40	3.66	8.77	7.02	4.16
22	30	11.54	9.23	1.80	12.80	10.24	2.05	10.24	8.19	2.27	10.75	8.60	3.74	8.98	7.19	4.26
24	32	11.81	9.45	1.84	13.11	10.49	2.10	10.49	8.39	2.33	11.01	8.81	3.83	9.20	7.36	4.36

(2) Heating

TC(Total Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)							
		-20		-10		7		24	
DB		TC	PI	TC	PI	TC	PI	TC	PI
16		9.70	4.35	13.40	5.38	11.43	2.38	14.75	2.75
18		9.60	4.31	13.26	5.33	11.31	2.36	14.60	2.72
20		9.51	4.27	13.13	5.28	11.20	2.34	14.46	2.69
21		9.41	4.23	13.00	5.22	11.09	2.31	14.31	2.67
22		9.32	4.18	12.87	5.17	10.98	2.29	14.17	2.64
24		9.22	4.14	12.74	5.12	10.87	2.27	14.03	2.61

10) RC125DHXEB + NS1254DXEA

(1) Cooling

TC(Total Capacity, kW), SHC(Sensible Heat Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)														
		-15			21			35			43			50		
WB	DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	11.63	9.31	2.28	13.26	10.61	3.29	11.62	9.30	3.63	9.65	7.72	3.66	6.97	5.58	3.19
16	22	11.92	9.53	2.34	13.58	10.87	3.37	11.91	9.53	3.72	9.89	7.91	3.75	7.14	5.72	3.27
18	25	12.21	9.77	2.39	13.92	11.13	3.45	12.20	9.76	3.81	10.13	8.10	3.84	7.32	5.86	3.35
19	27	12.51	10.01	2.45	14.26	11.41	3.54	12.50	10.00	3.90	10.38	8.30	3.93	7.50	6.00	3.43
22	30	12.81	10.25	2.51	14.60	11.68	3.62	12.80	10.24	3.99	10.63	8.50	4.03	7.68	6.14	3.52
24	32	13.12	10.50	2.57	14.95	11.96	3.71	13.11	10.49	4.09	10.88	8.71	4.12	7.86	6.29	3.60

(2) Heating

TC(Total Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)							
		-20		-10		7		24	
DB		TC	PI	TC	PI	TC	PI	TC	PI
16		11.12	5.16	11.49	5.25	14.28	3.96	17.55	4.40
18		11.01	5.11	11.37	5.19	14.14	3.92	17.37	4.36
20		10.90	5.06	11.26	5.14	14.00	3.88	17.20	4.32
21		10.79	5.01	11.15	5.09	13.86	3.84	17.03	4.27
22		10.68	4.96	11.04	5.04	13.72	3.80	16.86	4.23
24		10.58	4.91	10.93	4.99	13.58	3.76	16.69	4.19

✓ Note

- ◆ Ratings shown are net capacities.
- ◆ Capacities are based on following conditions;
 - Equivalent refrigerant piping length : 5m / Level difference : 0m.

11) RC125DHXGA + NS1254DXEA

(1) Cooling

TC(Total Capacity, kW), SHC(Sensible Heat Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)														
		-15			21			35			43			50		
WB	DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	11.61	9.29	2.38	13.34	10.67	3.44	11.62	9.30	3.63	9.67	7.73	4.74	7.10	5.68	4.16
16	22	11.89	9.51	2.43	13.66	10.93	3.52	11.91	9.53	3.72	9.90	7.92	4.86	7.27	5.82	4.26
18	25	12.19	9.75	2.49	14.00	11.20	3.61	12.20	9.76	3.81	10.15	8.12	4.97	7.45	5.96	4.37
19	27	12.49	9.99	2.56	14.35	11.48	3.70	12.50	10.00	3.90	10.40	8.32	5.10	7.64	6.11	4.47
22	30	12.78	10.23	2.62	14.69	11.75	3.78	12.80	10.24	3.99	10.65	8.52	5.22	7.82	6.25	4.58
24	32	13.09	10.47	2.68	15.04	12.03	3.88	13.11	10.49	4.09	10.90	8.72	5.34	8.01	6.40	4.69

(2) Heating

TC(Total Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)							
		-20		-10		7		24	
DB		TC	PI	TC	PI	TC	PI	TC	PI
16		11.43	5.43	12.77	6.31	14.28	3.96	17.55	4.51
18		11.31	5.38	12.64	6.25	14.14	3.92	17.37	4.47
20		11.20	5.32	12.52	6.19	14.00	3.88	17.20	4.42
21		11.09	5.27	12.39	6.13	13.86	3.84	17.03	4.38
22		10.98	5.22	12.27	6.07	13.72	3.80	16.86	4.33
24		10.87	5.17	12.15	6.01	13.58	3.76	16.69	4.29

12) RC125PHXEA + NS1254PXEA

(1) Cooling

TC(Total Capacity, kW), SHC(Sensible Heat Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)														
		-15			21			35			43			50		
WB	DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	11.62	9.30	1.94	13.29	10.64	3.16	11.62	9.30	3.23	10.40	8.32	4.28	7.07	5.65	3.16
16	22	11.91	9.53	1.99	13.62	10.90	3.24	11.91	9.53	3.31	10.66	8.53	4.38	7.24	5.79	3.24
18	25	12.20	9.76	2.03	13.96	11.17	3.32	12.20	9.76	3.39	10.92	8.74	4.49	7.42	5.93	3.32
19	27	12.50	10.00	2.08	14.30	11.44	3.40	12.50	10.00	3.47	11.19	8.95	4.60	7.60	6.08	3.40
22	30	12.80	10.24	2.13	14.64	11.71	3.48	12.80	10.24	3.55	11.46	9.17	4.71	7.78	6.23	3.48
24	32	13.11	10.49	2.19	14.99	12.00	3.57	13.11	10.49	3.64	11.73	9.39	4.82	7.97	6.38	3.57

(2) Heating

TC(Total Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)							
		-20		-10		7		24	
DB		TC	PI	TC	PI	TC	PI	TC	PI
16		11.22	5.20	12.21	5.18	14.28	3.66	17.64	4.16
18		11.11	5.15	12.09	5.13	14.14	3.63	17.46	4.12
20		11.00	5.10	11.97	5.08	14.00	3.59	17.29	4.08
21		10.89	5.05	11.85	5.02	13.86	3.55	17.12	4.04
22		10.78	5.00	11.73	4.97	13.72	3.52	16.94	4.00
24		10.67	4.95	11.62	4.92	13.58	3.48	16.78	3.96

☒ Note

- ◆ Ratings shown are net capacities.
- ◆ Capacities are based on following conditions;
 - Equivalent refrigerant piping length : 5m / Level difference : 0m.

3 4 way cassette S

3-2. Capacity tables

13) RC125PHXGA + NS1254PXE A

(1) Cooling

TC(Total Capacity, kW), SHC(Sensible Heat Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)														
		-15			21			35			43			50		
WB	DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	11.71	9.37	2.14	13.39	10.71	3.25	11.62	9.30	3.25	10.41	8.33	4.74	7.16	5.73	4.09
16	22	12.00	9.60	2.19	13.72	10.97	3.33	11.91	9.53	3.33	10.67	8.54	4.86	7.33	5.87	4.19
18	25	12.30	9.84	2.24	14.05	11.24	3.42	12.20	9.76	3.42	10.93	8.74	4.98	7.52	6.01	4.29
19	27	12.60	10.08	2.30	14.40	11.52	3.50	12.50	10.00	3.50	11.20	8.96	5.10	7.70	6.16	4.40
22	30	12.90	10.32	2.36	14.75	11.80	3.58	12.80	10.24	3.58	11.47	9.18	5.22	7.88	6.31	4.51
24	32	13.21	10.57	2.41	15.10	12.08	3.67	13.11	10.49	3.67	11.74	9.40	5.35	8.07	6.46	4.61

(2) Heating

TC(Total Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)							
		-20		-10		7		24	
DB		TC	PI	TC	PI	TC	PI	TC	PI
16		11.53	5.41	12.24	5.20	14.28	3.66	17.65	4.18
18		11.41	5.35	12.12	5.15	14.14	3.63	17.47	4.14
20		11.30	5.30	12.00	5.10	14.00	3.59	17.30	4.10
21		11.19	5.25	11.88	5.05	13.86	3.55	17.13	4.06
22		11.08	5.19	11.76	5.00	13.72	3.52	16.96	4.02
24		10.96	5.14	11.64	4.95	13.58	3.48	16.79	3.98

14) RC140DHXEB + NS1404DXEA

(1) Cooling

TC(Total Capacity, kW), SHC(Sensible Heat Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)														
		-15			21			35			43			50		
WB	DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	13.00	10.40	3.52	14.88	11.91	4.42	13.02	10.41	4.05	12.69	10.15	5.95	8.37	6.69	3.63
16	22	13.32	10.66	3.61	15.25	12.20	4.53	13.34	10.67	4.15	13.00	10.40	6.10	8.57	6.86	3.72
18	25	13.65	10.92	3.70	15.62	12.50	4.64	13.66	10.93	4.26	13.32	10.66	6.25	8.78	7.03	3.81
19	27	13.98	11.19	3.79	16.01	12.81	4.75	14.00	11.20	4.36	13.65	10.92	6.40	9.00	7.20	3.90
22	30	14.32	11.45	3.88	16.39	13.11	4.87	14.34	11.47	4.46	13.98	11.18	6.56	9.22	7.37	3.99
24	32	14.66	11.73	3.97	16.78	13.43	4.98	14.68	11.74	4.57	14.31	11.45	6.71	9.44	7.55	4.09

(2) Heating

TC(Total Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)							
		-20		-10		7		24	
DB		TC	PI	TC	PI	TC	PI	TC	PI
16		12.24	6.32	13.58	6.13	16.32	4.52	19.48	4.49
18		12.12	6.26	13.45	6.07	16.16	4.47	19.29	4.44
20		12.00	6.20	13.31	6.01	16.00	4.43	19.10	4.40
21		11.88	6.14	13.18	5.95	15.84	4.39	18.91	4.36
22		11.76	6.08	13.05	5.89	15.68	4.34	18.72	4.31
24		11.64	6.02	12.92	5.83	15.52	4.30	18.53	4.27

✓ Note

- ◆ Ratings shown are net capacities.
- ◆ Capacities are based on following conditions;
 - Equivalent refrigerant piping length : 5m / Level difference : 0m.

15) RC140DHXGA + NS1404DXEA

(1) Cooling

TC(Total Capacity, kW), SHC(Sensible Heat Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)														
		-15			21			35			43			50		
WB	DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	13.00	10.40	3.52	14.88	11.91	4.42	13.02	10.41	4.05	12.69	10.15	5.95	8.46	6.77	4.46
16	22	13.32	10.66	3.61	15.25	12.20	4.53	13.34	10.67	4.15	13.00	10.40	6.10	8.67	6.93	4.57
18	25	13.65	10.92	3.70	15.62	12.50	4.64	13.66	10.93	4.26	13.32	10.66	6.25	8.88	7.11	4.68
19	27	13.98	11.19	3.79	16.01	12.81	4.75	14.00	11.20	4.36	13.65	10.92	6.40	9.10	7.28	4.80
22	30	14.32	11.45	3.88	16.39	13.11	4.87	14.34	11.47	4.46	13.98	11.18	6.56	9.32	7.45	4.92
24	32	14.66	11.73	3.97	16.78	13.43	4.98	14.68	11.74	4.57	14.31	11.45	6.71	9.54	7.63	5.03

(2) Heating

TC(Total Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)							
		-20		-10		7		24	
DB		TC	PI	TC	PI	TC	PI	TC	PI
16		12.75	6.53	13.58	6.13	16.32	4.52	19.53	4.51
18		12.63	6.46	13.45	6.07	16.16	4.47	19.34	4.46
20		12.50	6.40	13.31	6.01	16.00	4.43	19.15	4.42
21		12.38	6.34	13.18	5.95	15.84	4.39	18.96	4.38
22		12.25	6.27	13.05	5.89	15.68	4.34	18.77	4.33
24		12.13	6.21	12.92	5.83	15.52	4.30	18.58	4.29

16) RC140PHXEA + NS1404PXEA

(1) Cooling

TC(Total Capacity, kW), SHC(Sensible Heat Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)														
		-15			21			35			43			50		
WB	DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	13.02	10.41	1.81	14.88	11.90	2.37	13.02	10.41	3.72	12.82	10.25	5.71	8.37	6.69	3.44
16	22	13.34	10.67	1.86	15.24	12.19	2.43	13.34	10.67	3.81	13.13	10.50	5.85	8.57	6.86	3.52
18	25	13.66	10.93	1.90	15.62	12.49	2.49	13.66	10.93	3.90	13.45	10.76	5.99	8.78	7.03	3.61
19	27	14.00	11.20	1.95	16.00	12.80	2.55	14.00	11.20	4.00	13.78	11.03	6.14	9.00	7.20	3.70
22	30	14.34	11.47	2.00	16.38	13.11	2.61	14.34	11.47	4.10	14.11	11.29	6.29	9.22	7.37	3.79
24	32	14.68	11.74	2.04	16.78	13.42	2.67	14.68	11.74	4.19	14.45	11.56	6.44	9.44	7.55	3.88

(2) Heating

TC(Total Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)							
		-20		-10		7		24	
DB		TC	PI	TC	PI	TC	PI	TC	PI
16		12.34	6.05	14.49	6.36	16.32	4.18	20.26	4.48
18		12.22	5.99	14.35	6.29	16.16	4.14	20.06	4.43
20		12.10	5.94	14.21	6.23	16.00	4.10	19.86	4.39
21		11.98	5.88	14.06	6.17	15.84	4.06	19.66	4.35
22		11.86	5.82	13.92	6.11	15.68	4.02	19.47	4.30
24		11.74	5.76	13.78	6.04	15.52	3.98	19.27	4.26

☒ Note

- ◆ Ratings shown are net capacities.
- ◆ Capacities are based on following conditions;
 - Equivalent refrigerant piping length : 5m / Level difference : 0m.

3 4 way cassette S

3-2. Capacity tables

17) RC140PHXGA + NS1404PXE A

(1) Cooling

TC(Total Capacity, kW), SHC(Sensible Heat Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)														
		-15			21			35			43			50		
WB	DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	13.11	10.49	1.58	14.97	11.97	3.93	13.02	10.41	3.72	12.59	10.07	5.82	10.36	8.29	5.05
16	22	13.43	10.75	1.62	15.34	12.27	4.03	13.34	10.67	3.81	12.90	10.32	5.97	10.61	8.49	5.18
18	25	13.76	11.01	1.66	15.71	12.57	4.13	13.66	10.93	3.90	13.22	10.57	6.11	10.87	8.70	5.31
19	27	14.10	11.28	1.70	16.10	12.88	4.23	14.00	11.20	4.00	13.54	10.83	6.26	11.14	8.91	5.44
22	30	14.44	11.55	1.74	16.49	13.19	4.33	14.34	11.47	4.10	13.87	11.09	6.41	11.41	9.13	5.57
24	32	14.78	11.83	1.78	16.88	13.51	4.44	14.68	11.74	4.19	14.20	11.36	6.57	11.68	9.34	5.70

(2) Heating

TC(Total Capacity, kW), PI(Power Input, kW)

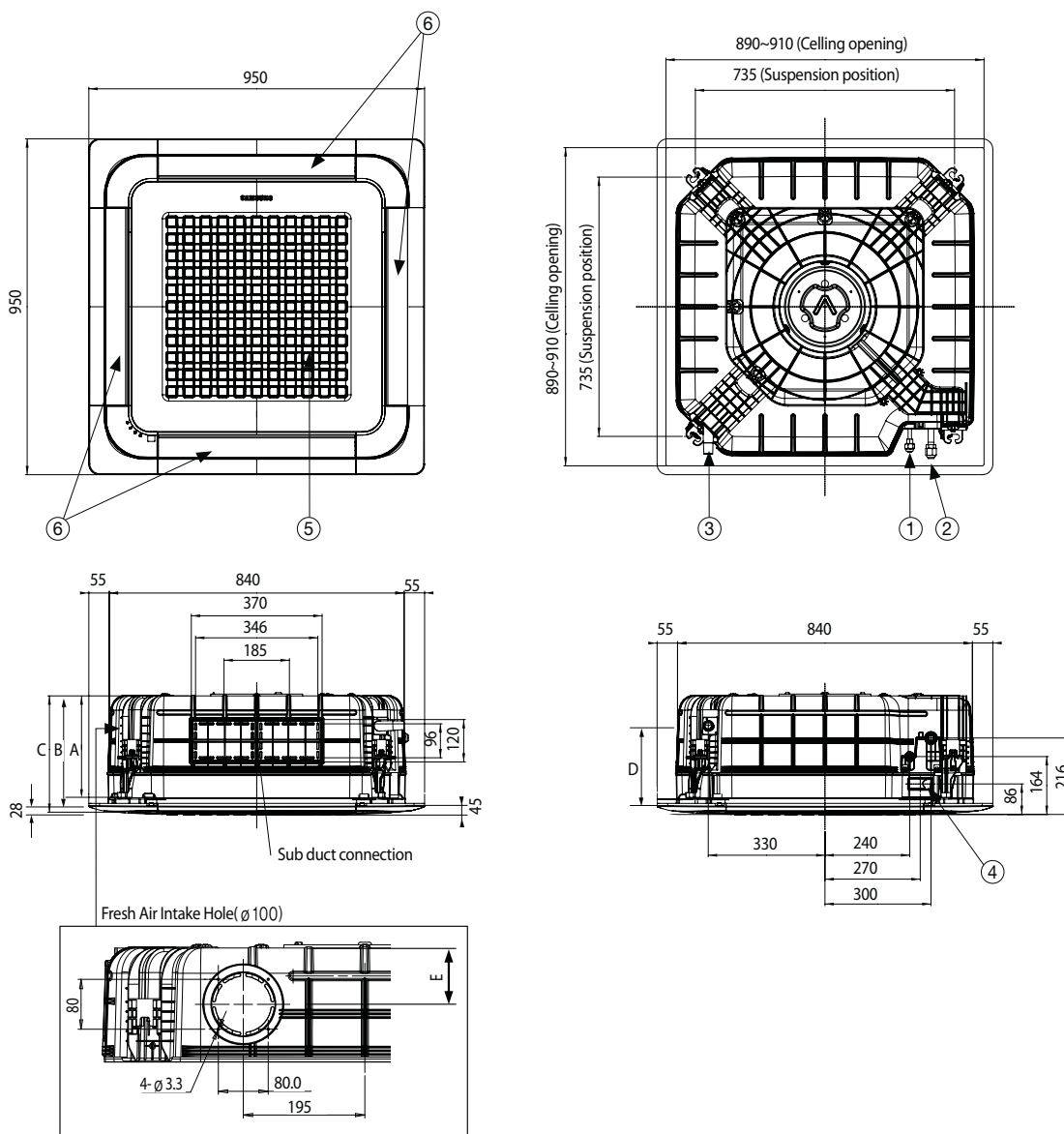
Indoor Temperature(°C)		Outdoor Temperature (°C, DB)							
		-20		-10		7		24	
DB		TC	PI	TC	PI	TC	PI	TC	PI
16		12.80	6.30	16.32	7.09	16.32	4.18	19.67	4.39
18		12.68	6.23	16.16	7.02	16.16	4.14	19.47	4.34
20		12.55	6.17	16.00	6.95	16.00	4.10	19.28	4.30
21		12.42	6.11	15.84	6.88	15.84	4.06	19.09	4.26
22		12.30	6.05	15.68	6.81	15.68	4.02	18.90	4.21
24		12.18	5.99	15.52	6.74	15.52	3.98	18.71	4.17

☑ Note

- ◆ Ratings shown are net capacities.
- ◆ Capacities are based on following conditions;
 - Equivalent refrigerant piping length : 5m / Level difference : 0m.

3-3 . Dimensional drawing

Unit:mm

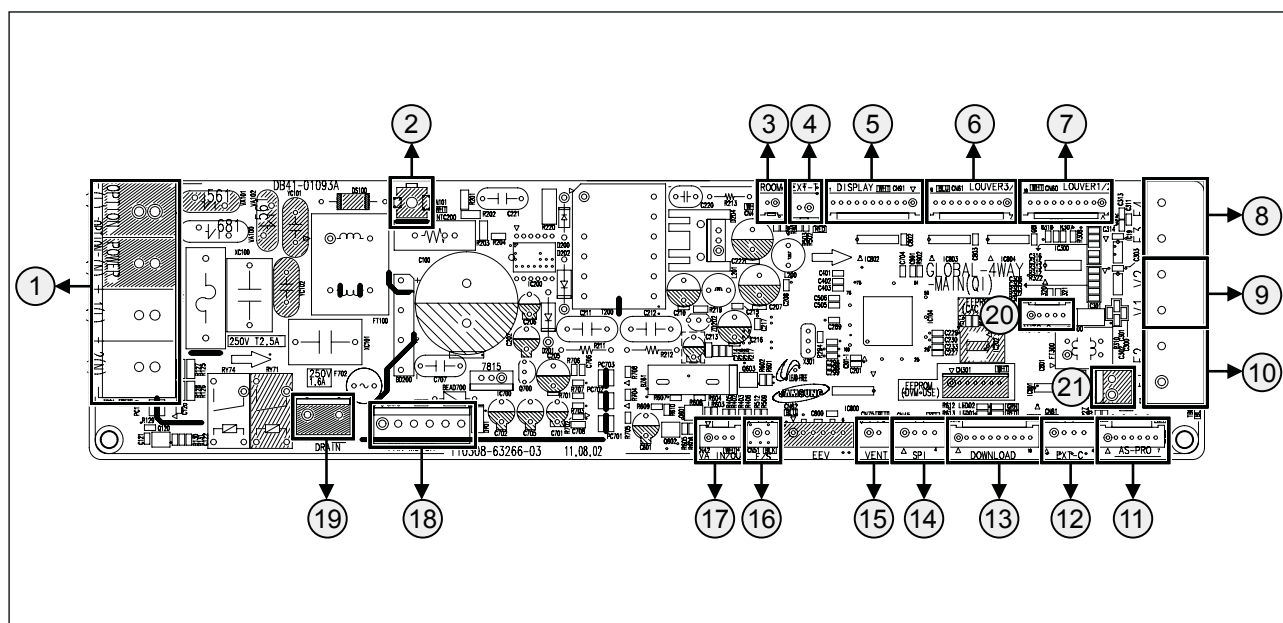


No.	Name	Description	
		7.1kW	9.0/10.0/12.5/14.0kW
①	Liquid pipe connection	Ø6.35mm (1/4") Flare	Ø9.52mm (3/8") Flare
②	Gas pipe connection	Ø15.88mm (5/8") Flare	
③	Drain pipe connection	VP25 (OD32, ID25)	
④	Conduit for power supply & communication wiring	-	
⑤	Air inlet grille	-	
⑥	Air outlet louver	-	

		Description		
		071D	*071P*, *090/100D*	*090/100P*, *125/140D(P)*, *100Z*
A	mm	204	246	288
B	mm	225	267	309
C	mm	253	295	337
D	mm	190	215	215

3 4 way cassette S

3-4. PCB connector lay-out



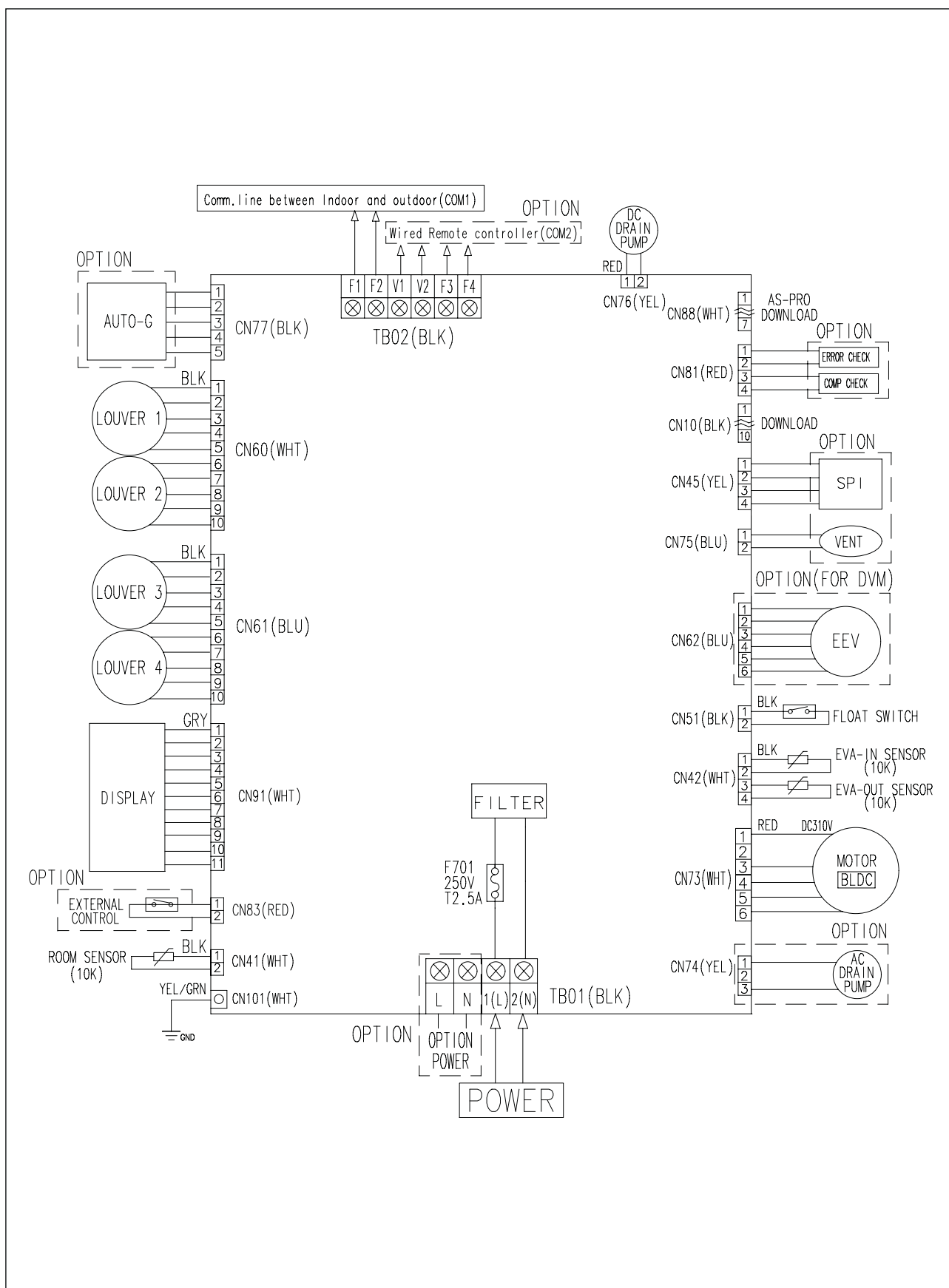
AC

No.	CN #	Color	Function
①	TB01	BLK	1(L, 2(N) : Input POWER L, N : Auto Grill Power
②	CN101	WHT	Earth Wire
⑱	CN73	WHT	BLDC Fan Motor

DC

No.	CN #	Color	Function
③	CN41	WHT	ROOM Temp. sensor
④	CN83	RED	External Control(On/Off)
⑤	CN91	WHT	Panel Display
⑥	CN61	BLU	Louver 3/4
⑦	CN60	WHT	Louver 1/2
⑧	TB02	BLK	COM1
⑨			DC12V
⑩			COM2
⑪	CN88	WHT	Micom-Download(AS-PRO)
⑫	CN81	RED	Error Check, Oper. Check
⑬	CN10	BLK	Micom-Download
⑭	CN45	YEL	SPI
⑮	CN75	BLU	Ventilator
⑯	CN51	BLK	Float switch sensor
⑰	CN42	WHT	EVA-IN, EVA-OUT Temp. sensor
⑱	CN74	YEL	AC Drain Pump
⑳	CN77	BLK	AUTO GRILL SIGNAL
㉑	CN76	YEL	DC Drain Pump

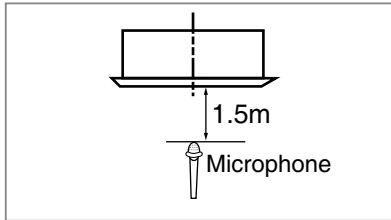
3-5. Electrical wiring diagram



3 4 way cassette S

3-6. Sound pressure level

1) Operation sound level



Unit : dB(A)

Model	High	Low
NS0714DXEA	36	28
NS0714PXE	36	28
NS0904DXEA	40	32
NS0904PXE	42	32
NS1004DXEA	44	34
NS1004PXE	44	34
NS1004ZXE	45	32

Unit : dB(A)

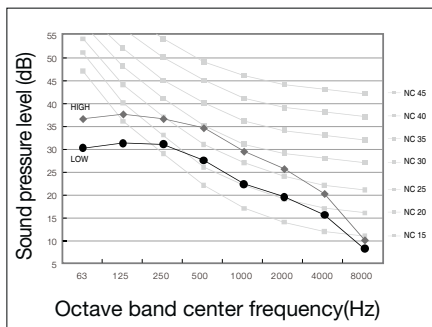
Model	High	Low
NS1254DXEA	44	36
NS1254PXE	44	36
NS1404DXEA	45	38
NS1404PXE	45	38

Note

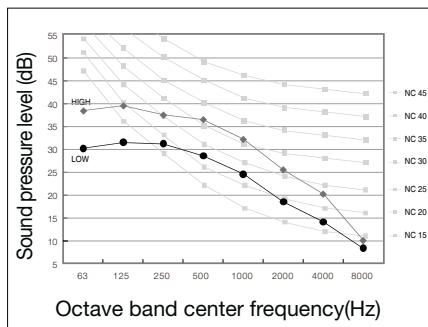
- ◆ These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- ◆ Operation sound level may differ depending on operation and ambient conditions.

2) NC curves

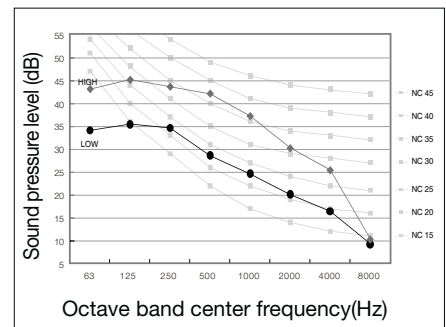
(1) NS0714DXEA



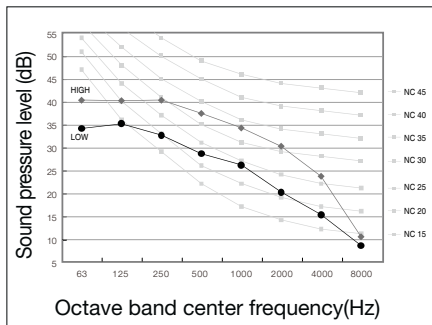
(2) NS0714PXE



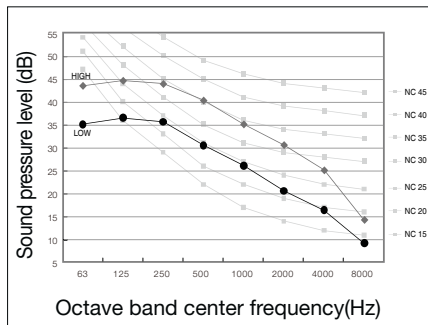
(3) NS0904DXEA



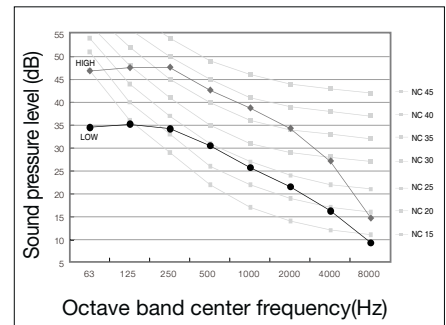
(4) NS0904PXE



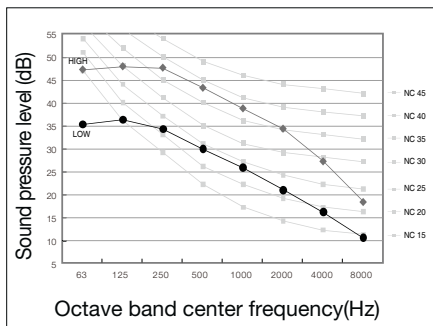
(5) NS1004DXEA



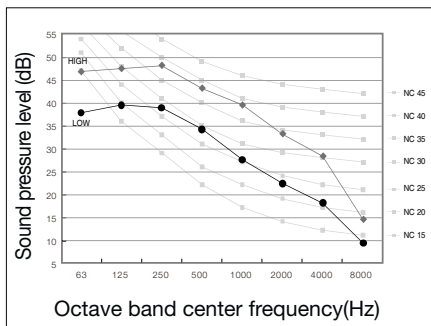
(6) NS1004PXE



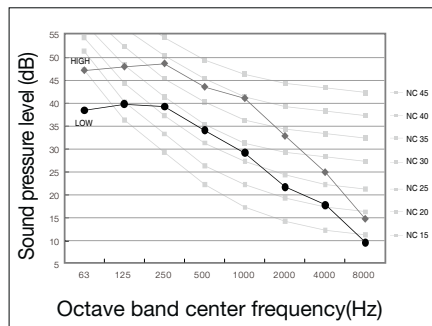
(7) NS1004ZXEA



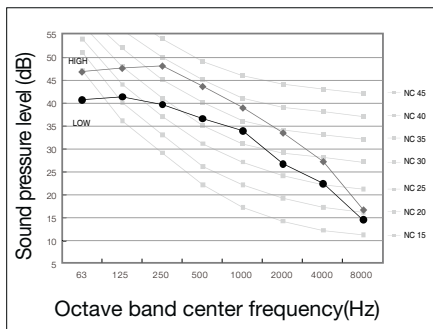
(8) NS1254DXEA



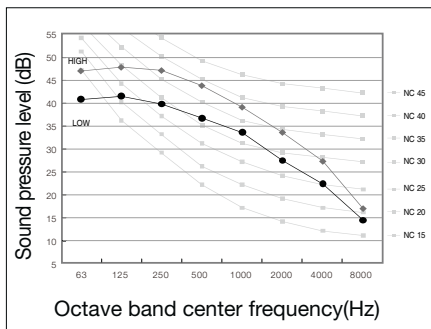
(9) NS1254PXEA



(10) NS1404DXEA



(11) NS1404PXEA

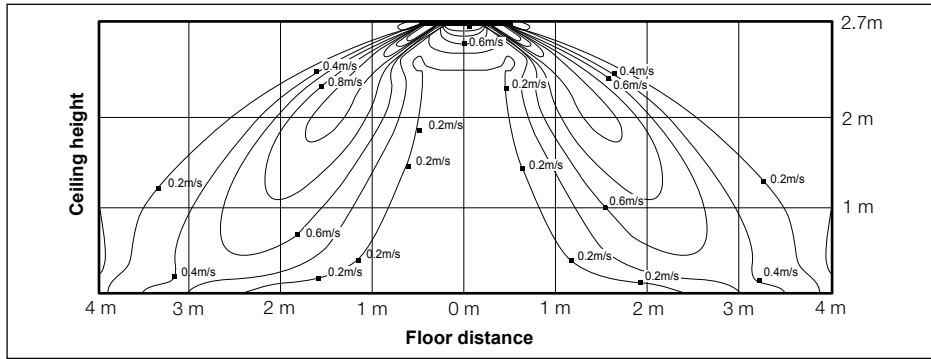


3-7. Temperature and air flow distribution

1) NS0714DXEA

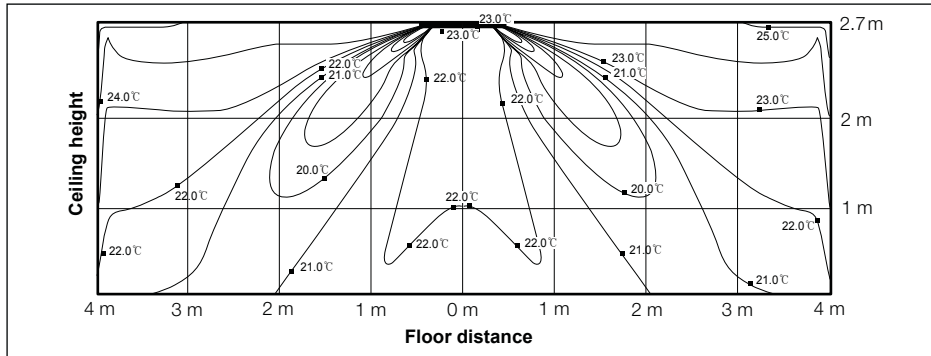
(1) Cooling air velocity distribution

◆ Discharge angle : 45°



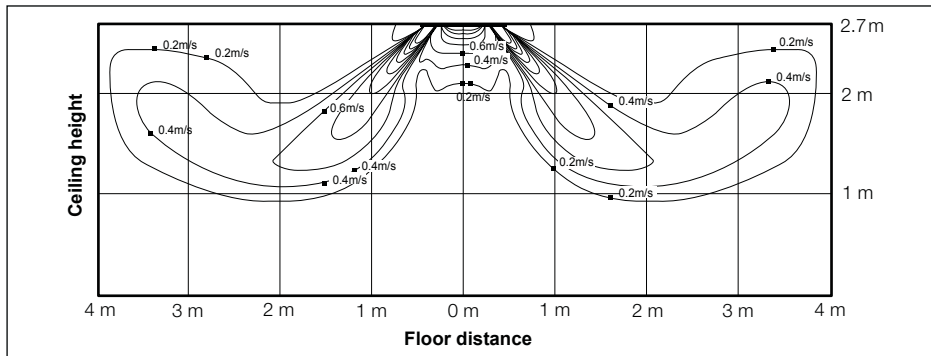
(2) Cooling temperature distribution

◆ Discharge angle : 45°



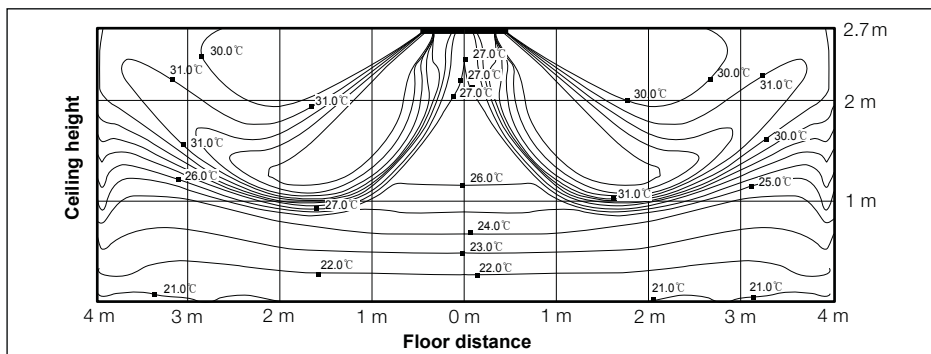
(3) Heating air velocity distribution

◆ Discharge angle : 52°



(4) Heating temperature distribution

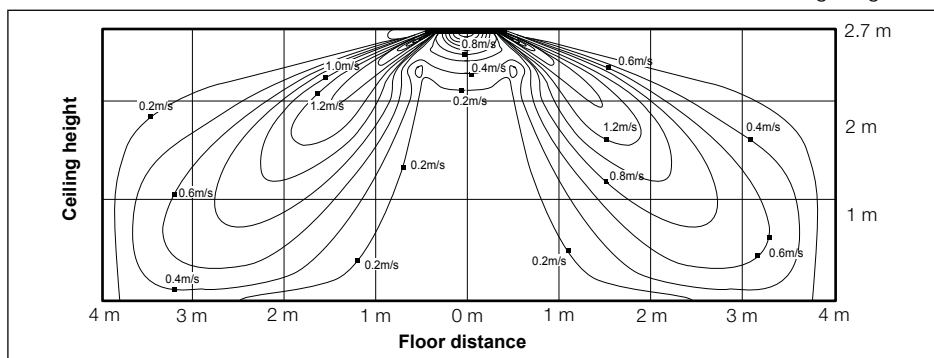
◆ Discharge angle : 52°



2) NS0714PXE A

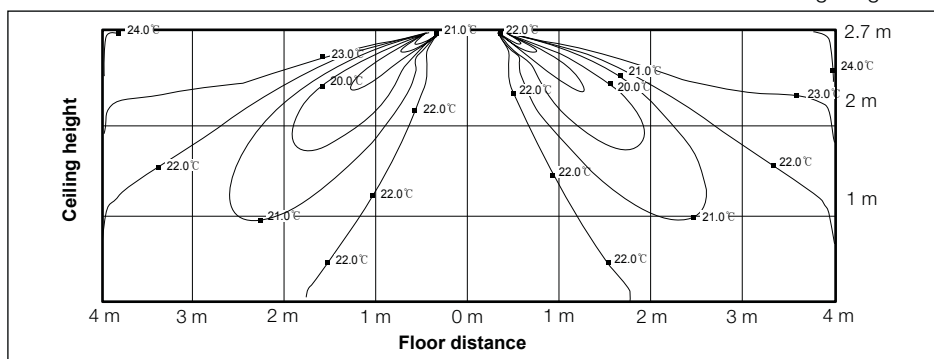
(1) Cooling air velocity distribution

◆ Discharge angle : 45°



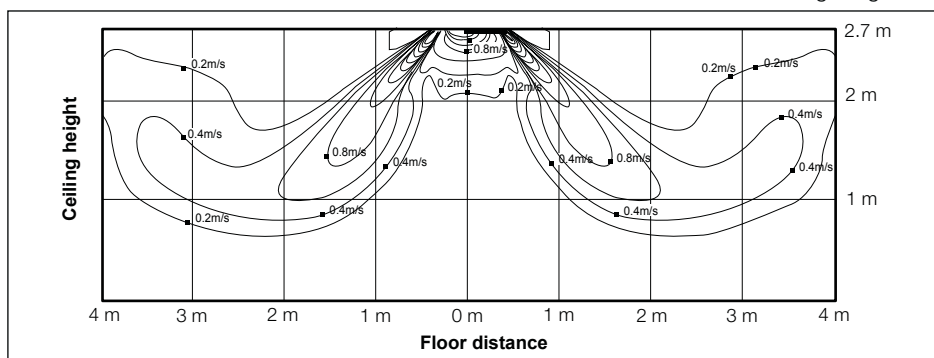
(2) Cooling temperature distribution

◆ Discharge angle : 45°



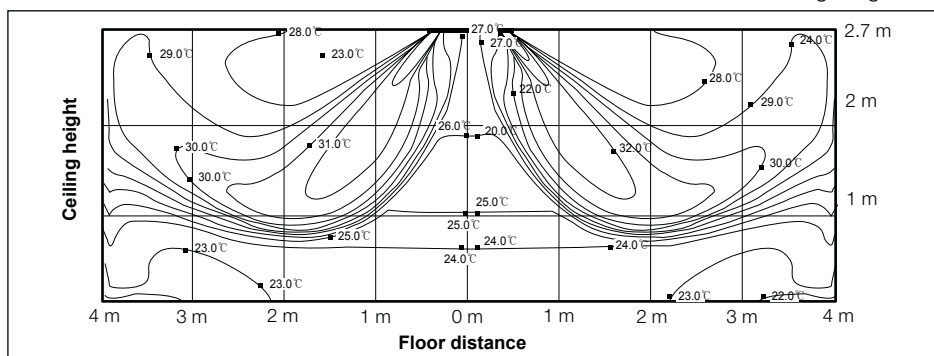
(3) Heating air velocity distribution

◆ Discharge angle : 52°



(4) Heating temperature distribution

◆ Discharge angle : 52°

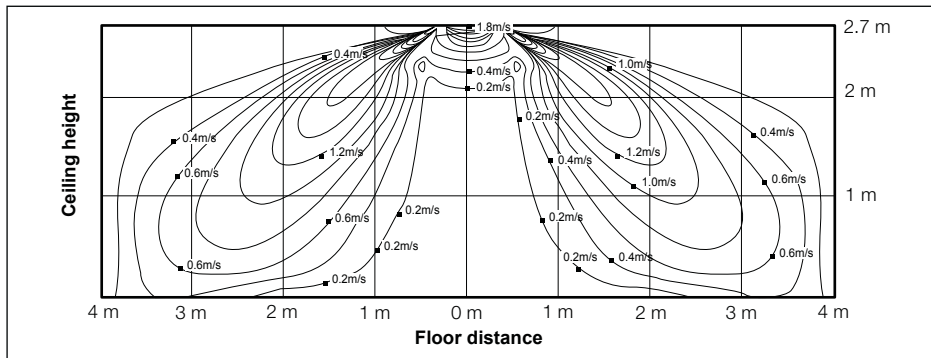


3-7. Temperature and air flow distribution

3) NS0904DXEA

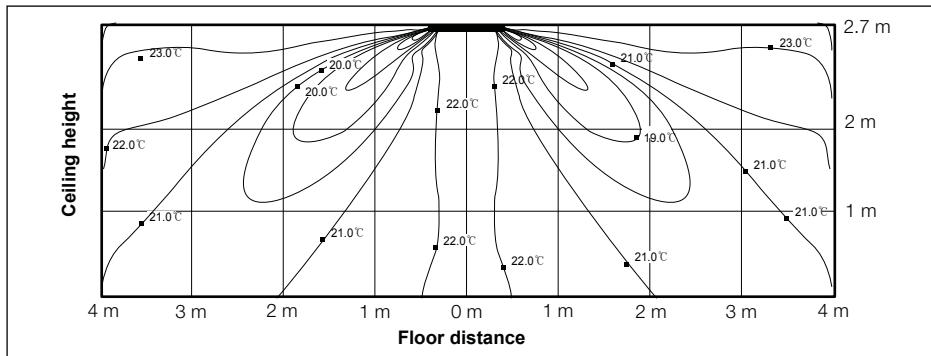
(1) Cooling air velocity distribution

◆ Discharge angle : 45°



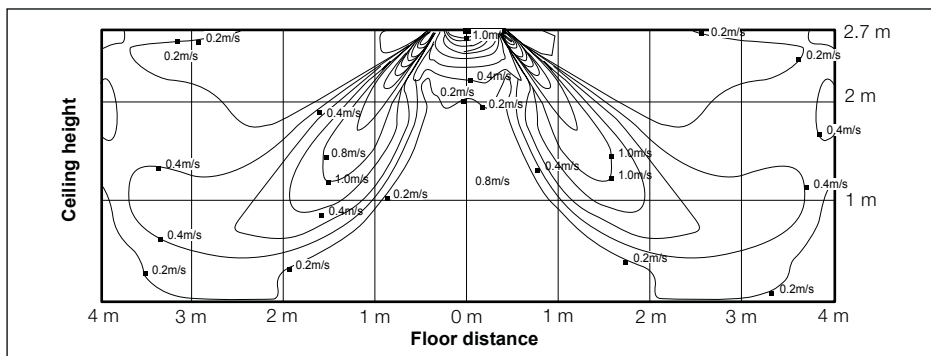
(2) Cooling temperature distribution

◆ Discharge angle : 45°



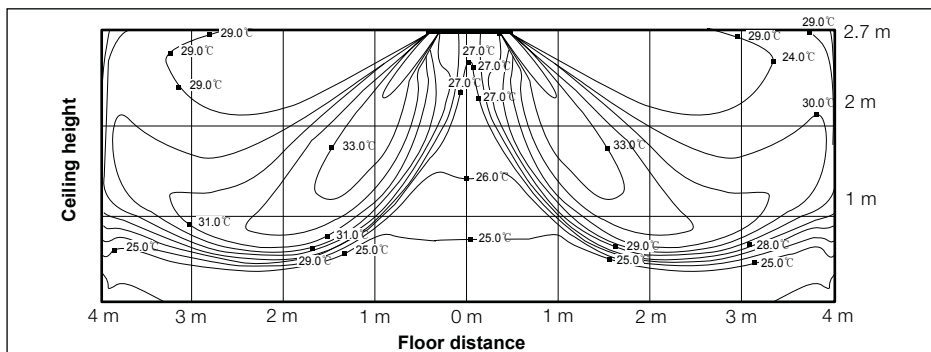
(3) Heating air velocity distribution

◆ Discharge angle : 52°



(4) Heating temperature distribution

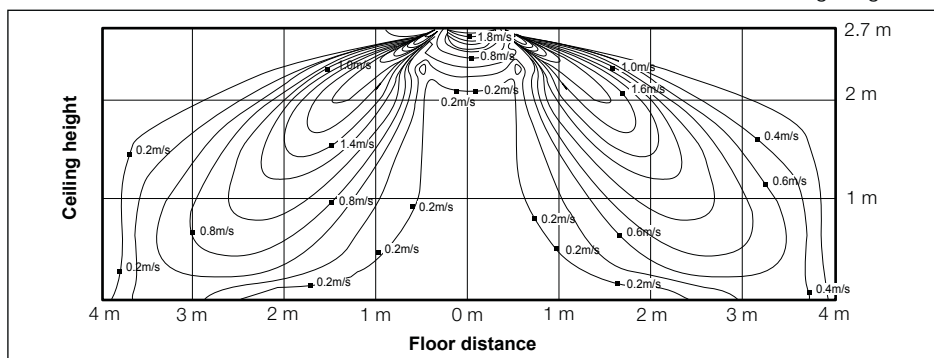
◆ Discharge angle : 52°



4) NS0904PXEA

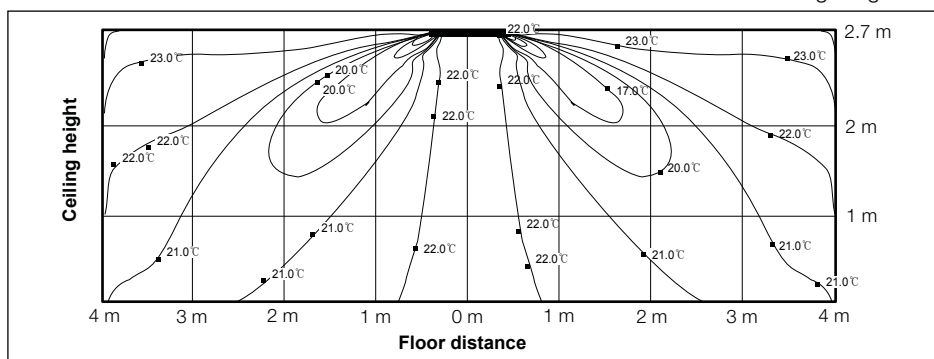
(1) Cooling air velocity distribution

◆ Discharge angle : 45°



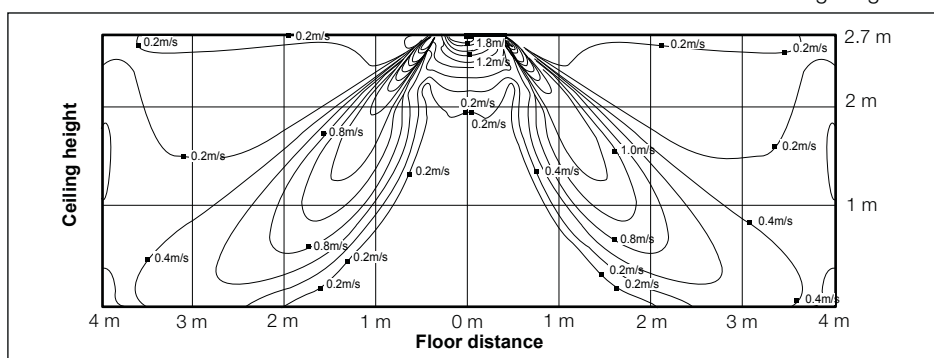
(2) Cooling temperature distribution

◆ Discharge angle : 45°



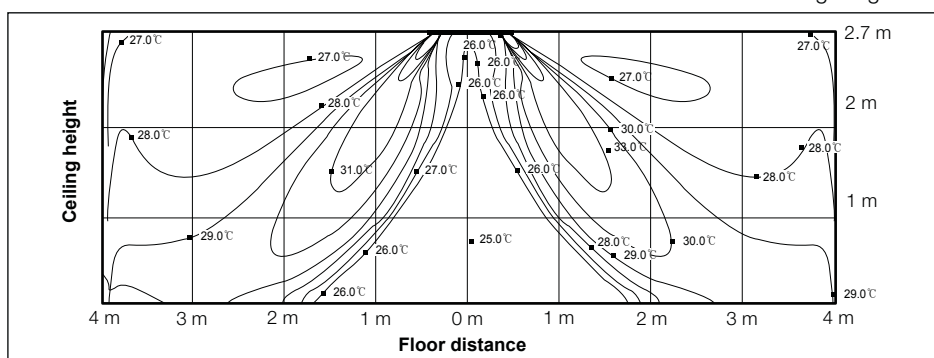
(3) Heating air velocity distribution

◆ Discharge angle : 52°



(4) Heating temperature distribution

◆ Discharge angle : 52°



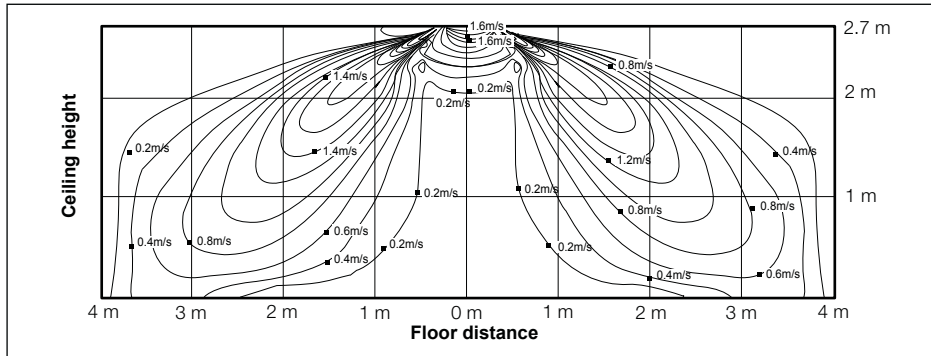
3 4 way cassette S

3-7. Temperature and air flow distribution

5) NS1004DXEA

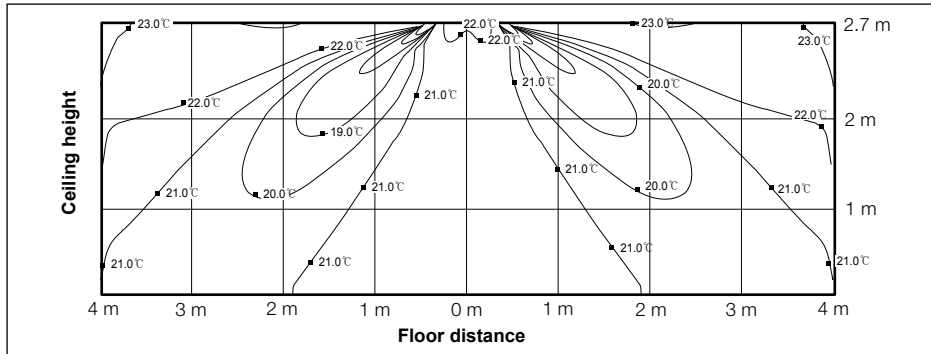
(1) Cooling air velocity distribution

◆ Discharge angle : 45°



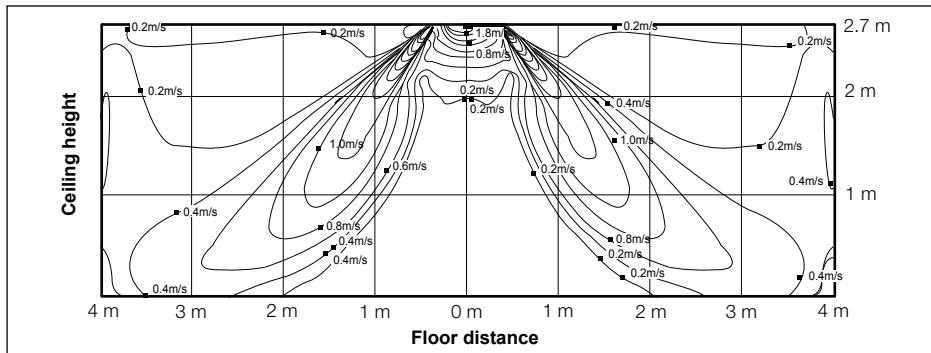
(2) Cooling temperature distribution

◆ Discharge angle : 45°



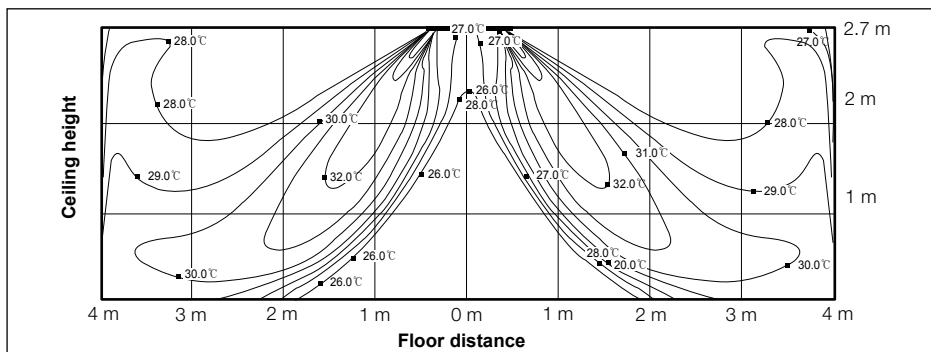
(3) Heating air velocity distribution

◆ Discharge angle : 52°



(4) Heating temperature distribution

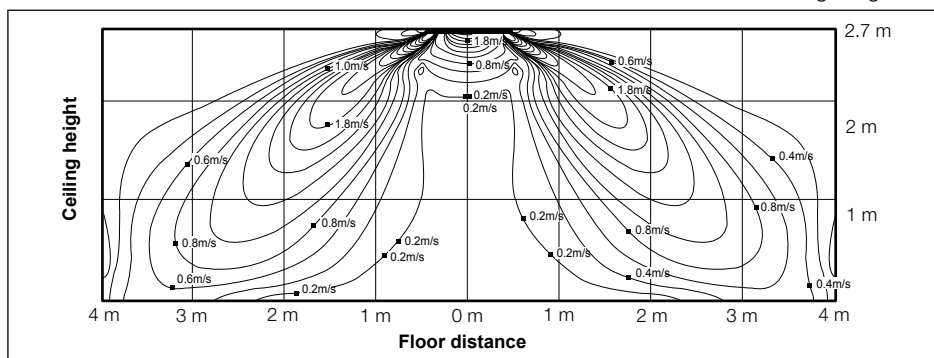
◆ Discharge angle : 52°



6) NS1004PXEA

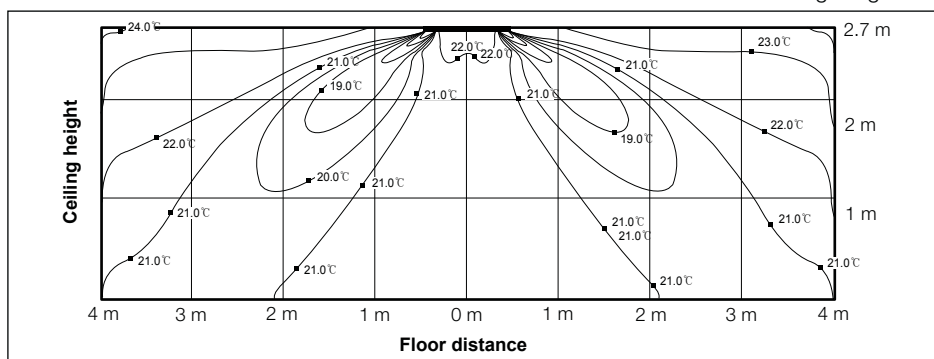
(1) Cooling air velocity distribution

◆ Discharge angle : 45°



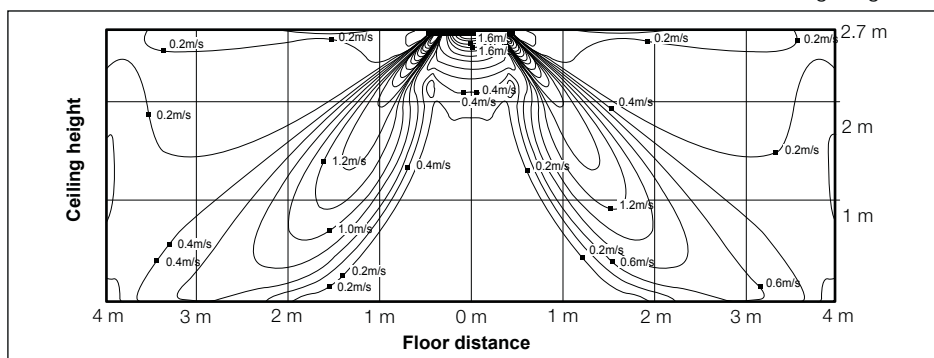
(2) Cooling temperature distribution

◆ Discharge angle : 45°



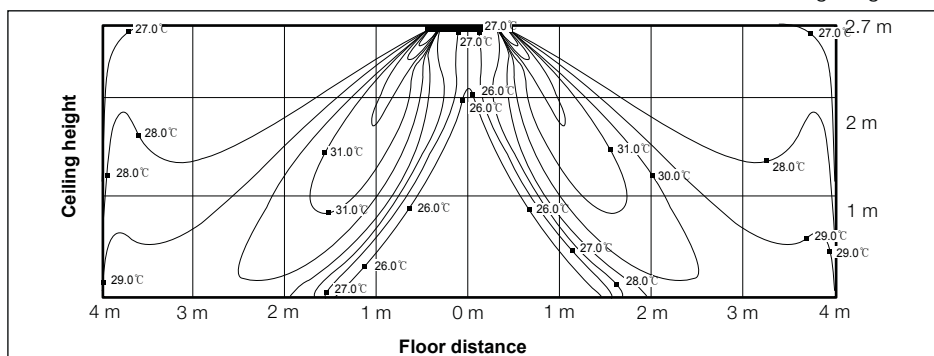
(3) Heating air velocity distribution

◆ Discharge angle : 52°



(4) Heating temperature distribution

◆ Discharge angle : 52°



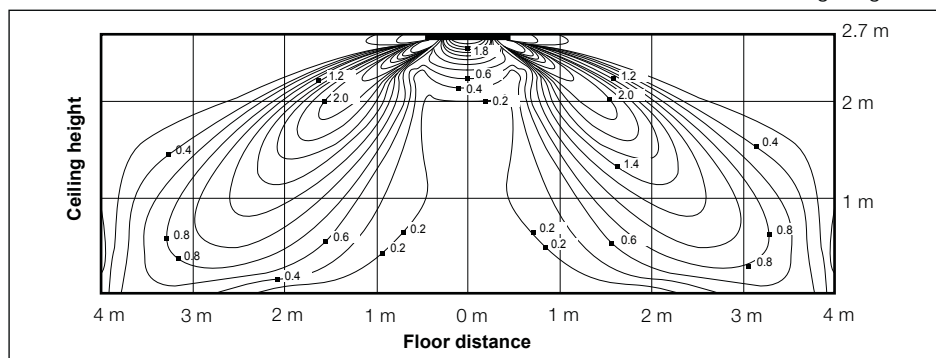
3 4 way cassette S

3-7. Temperature and air flow distribution

7) NS1004ZXEA

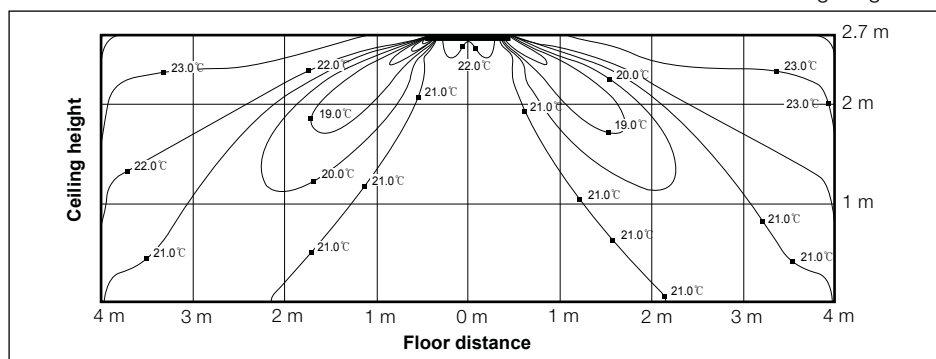
(1) Cooling air velocity distribution

◆ Discharge angle : 45°



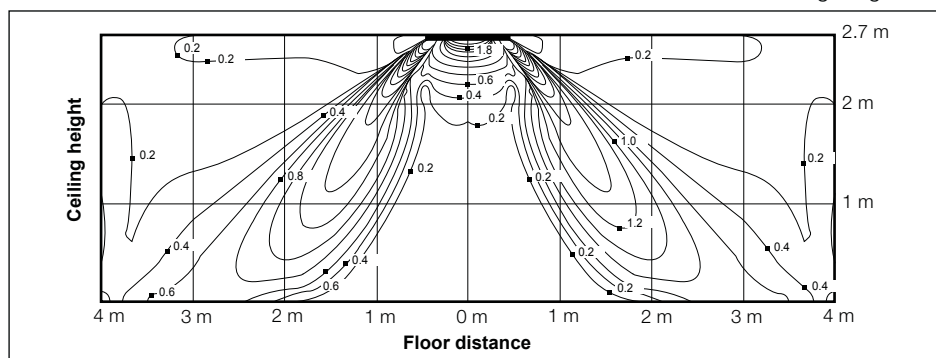
(2) Cooling temperature distribution

◆ Discharge angle : 45°



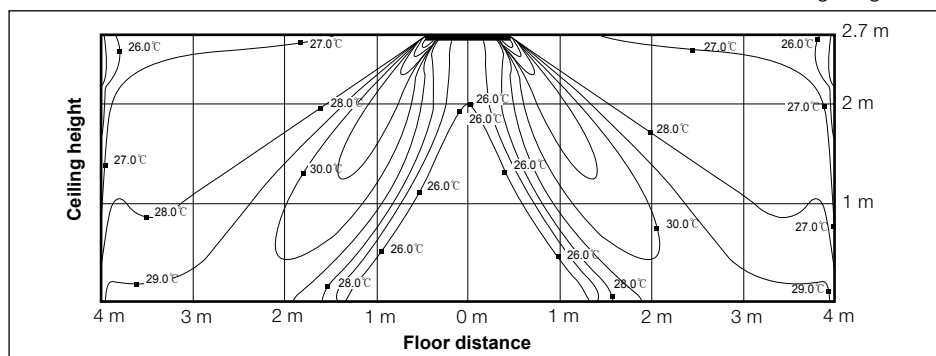
(3) Heating air velocity distribution

◆ Discharge angle : 52°



(4) Heating temperature distribution

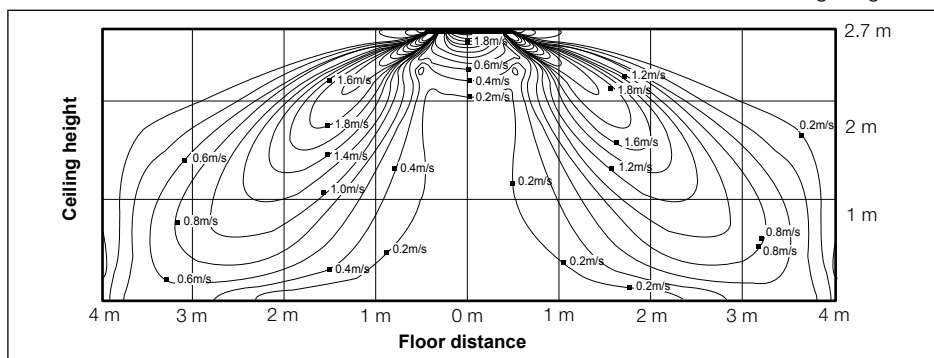
◆ Discharge angle : 52°



8) NS1254DXEA

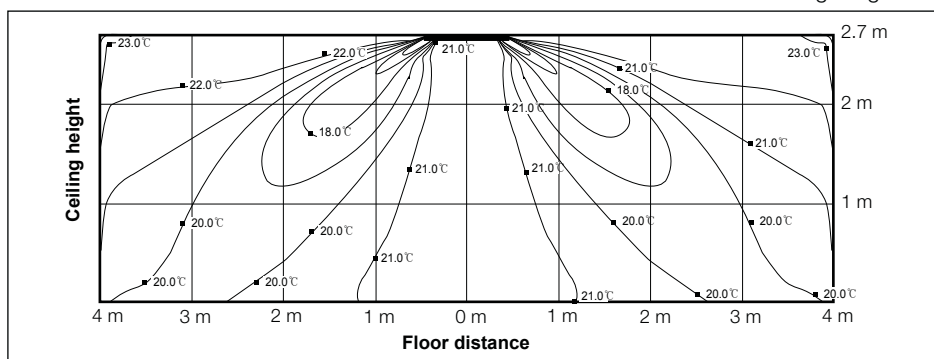
(1) Cooling air velocity distribution

◆ Discharge angle : 45°



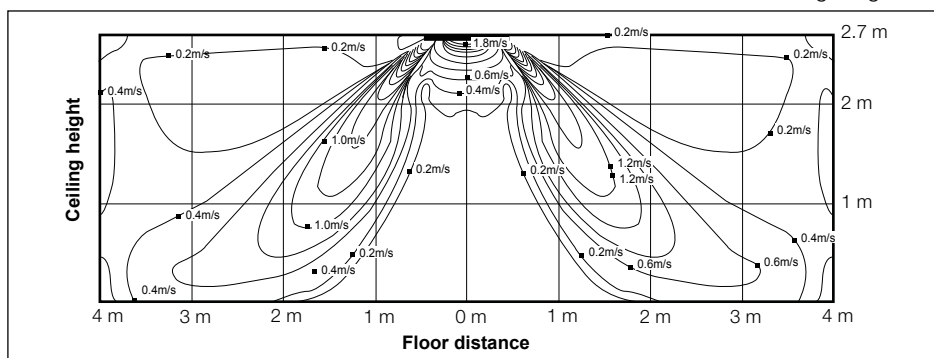
(2) Cooling temperature distribution

◆ Discharge angle : 45°



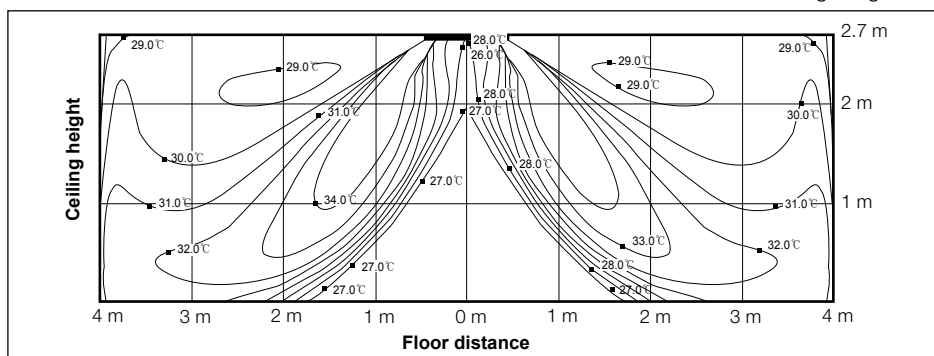
(3) Heating air velocity distribution

◆ Discharge angle : 52°



(4) Heating temperature distribution

◆ Discharge angle : 52°



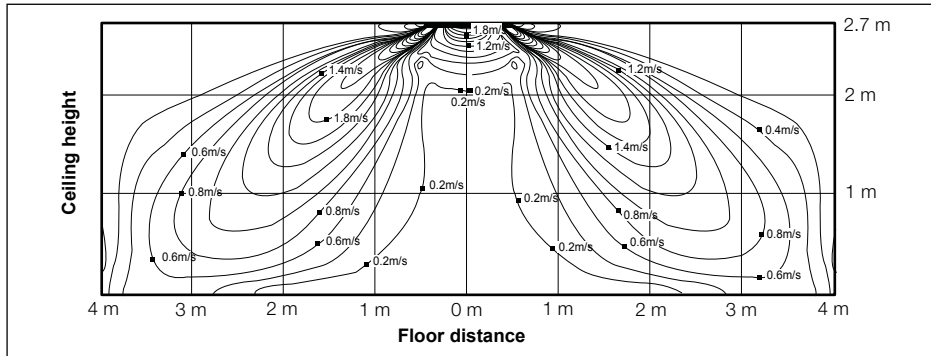
3 4 way cassette S

3-7. Temperature and air flow distribution

9) NS1254PXE A

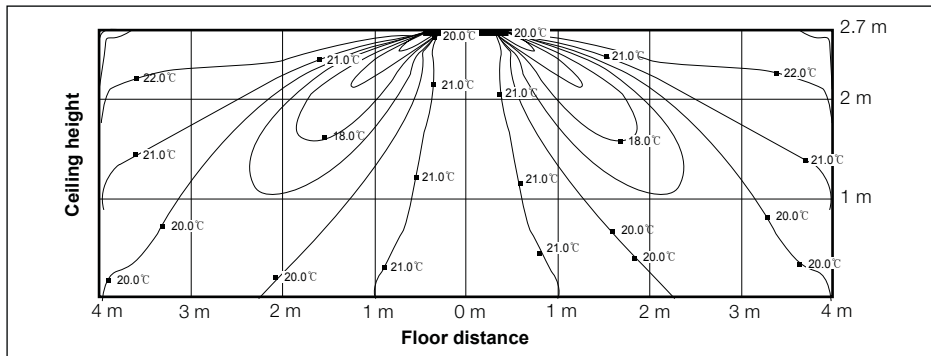
(1) Cooling air velocity distribution

◆ Discharge angle : 45°



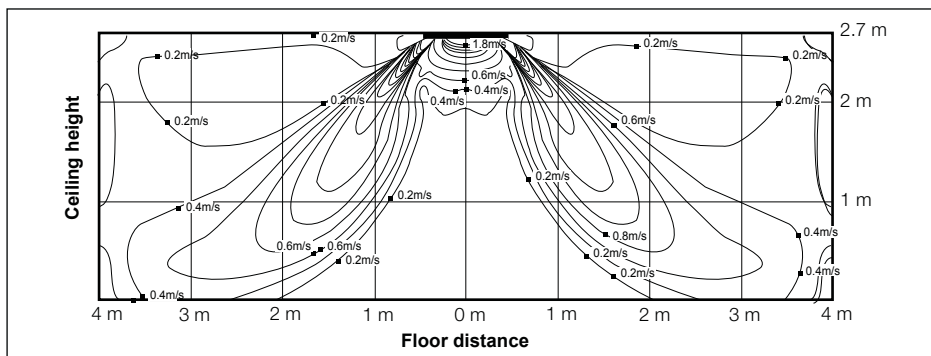
(2) Cooling temperature distribution

◆ Discharge angle : 45°



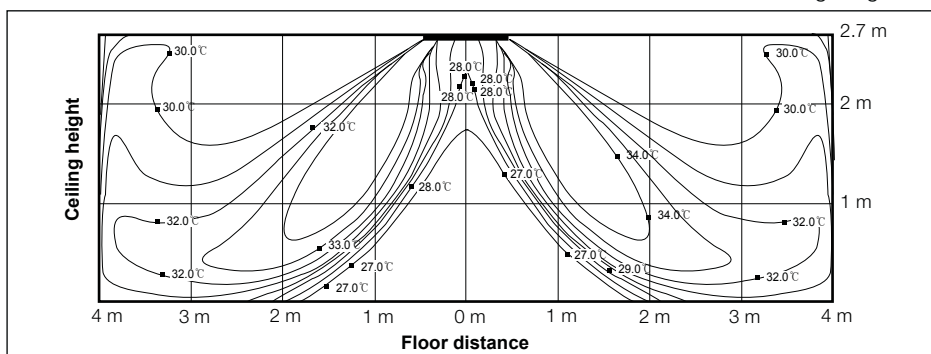
(3) Heating air velocity distribution

◆ Discharge angle : 52°



(4) Heating temperature distribution

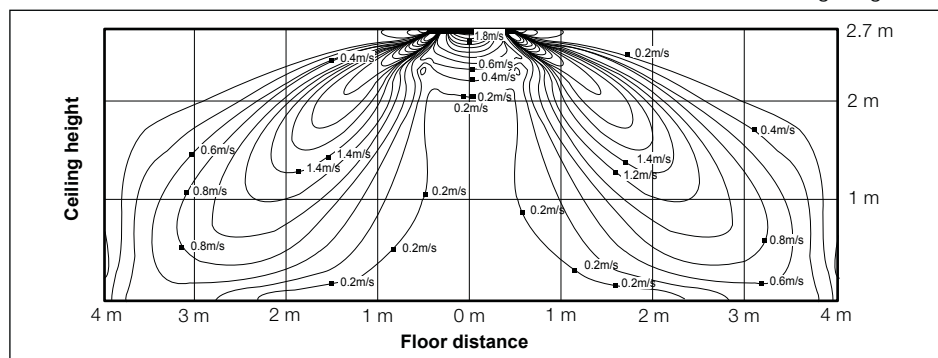
◆ Discharge angle : 52°



10) NS1404DXEA

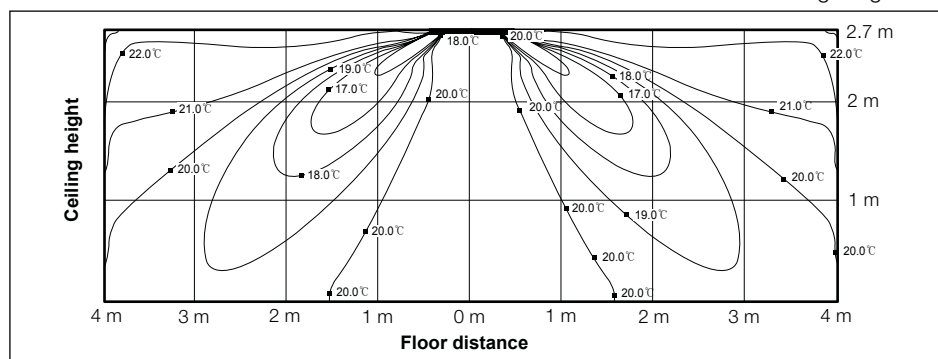
(1) Cooling air velocity distribution

◆ Discharge angle : 45°



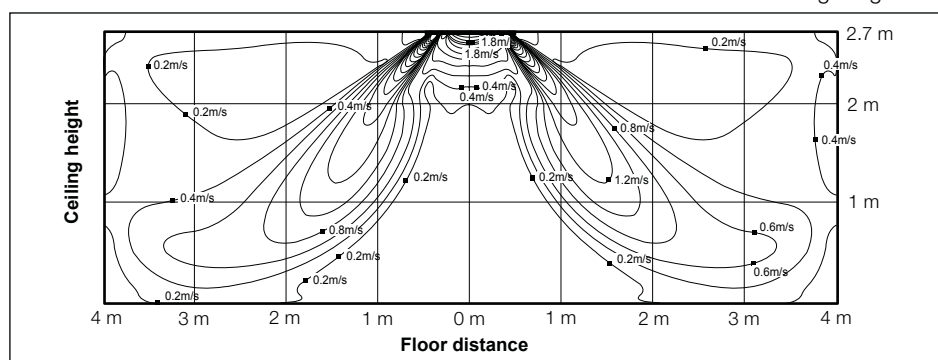
(2) Cooling temperature distribution

◆ Discharge angle : 45°



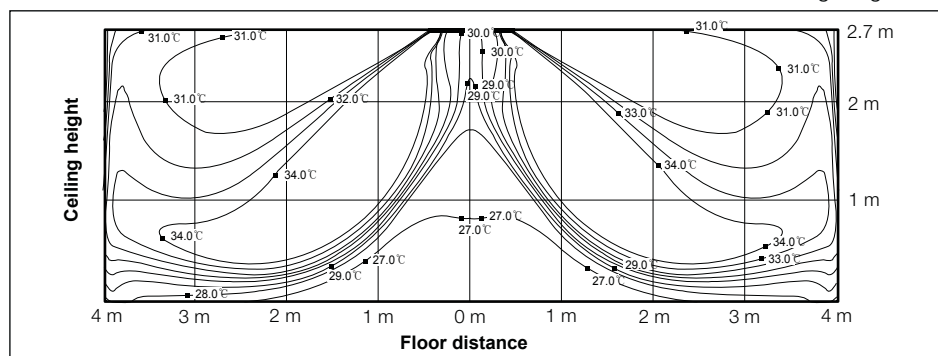
(3) Heating air velocity distribution

◆ Discharge angle : 52°



(4) Heating temperature distribution

◆ Discharge angle : 52°



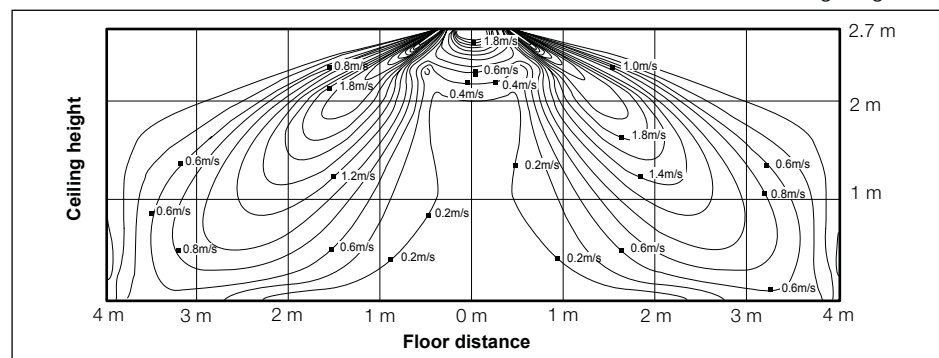
3 4 way cassette S

3-7. Temperature and air flow distribution

11) NS1404PXE A

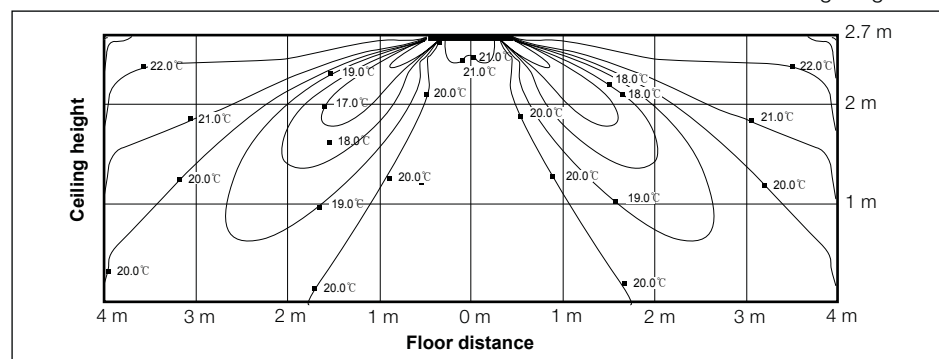
(1) Cooling air velocity distribution

◆ Discharge angle : 45°



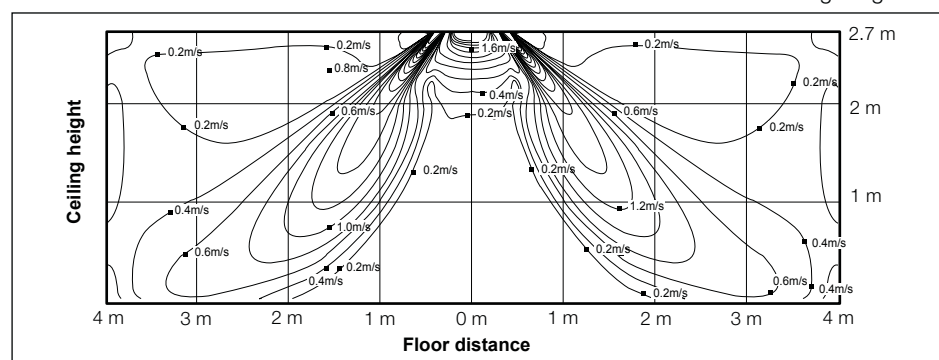
(2) Cooling temperature distribution

◆ Discharge angle : 45°



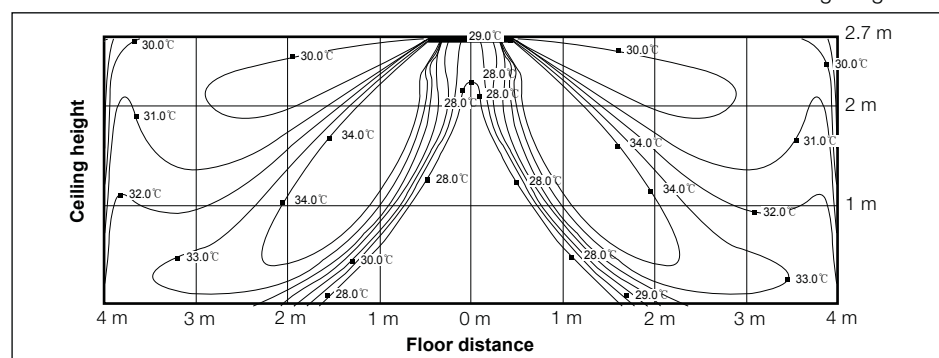
(3) Heating air velocity distribution

◆ Discharge angle : 52°



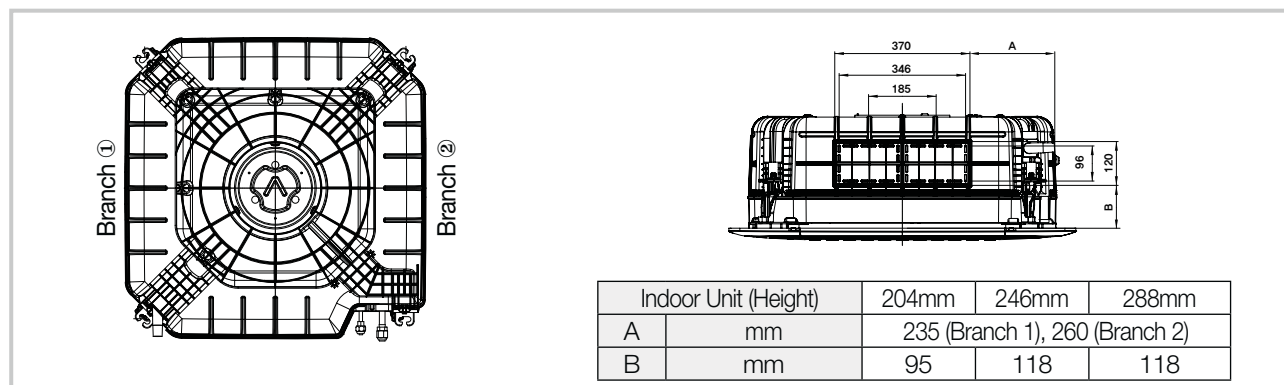
(4) Heating temperature distribution

◆ Discharge angle : 52°



3-8. Sub duct

1) Dimensional drawing



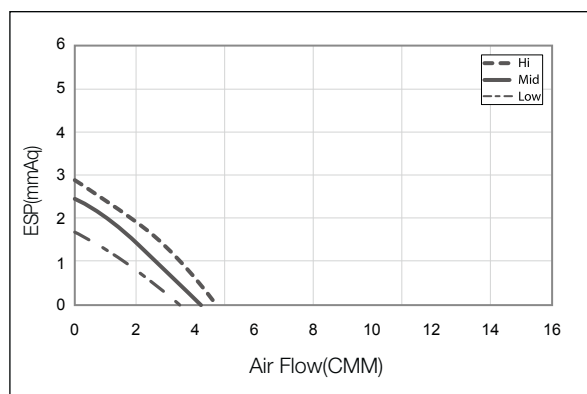
✓ Note

- ◆ Sub duct can be used for 2 directions independently or together.
- ◆ Be sure to seal off the air outlet of the indoor unit to which the sub duct is connected.
If not, it may cause water splattering and condensation.

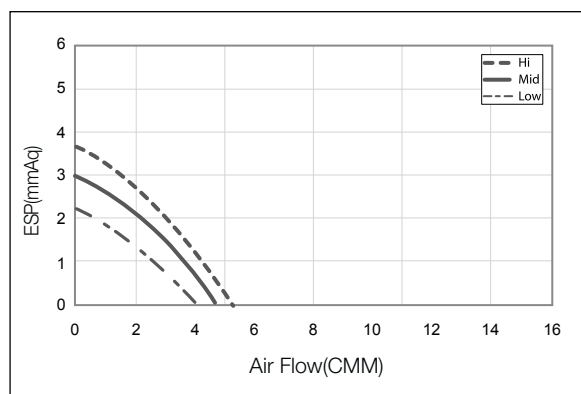
2) P-Q Curve

(1) NS0714DXEA

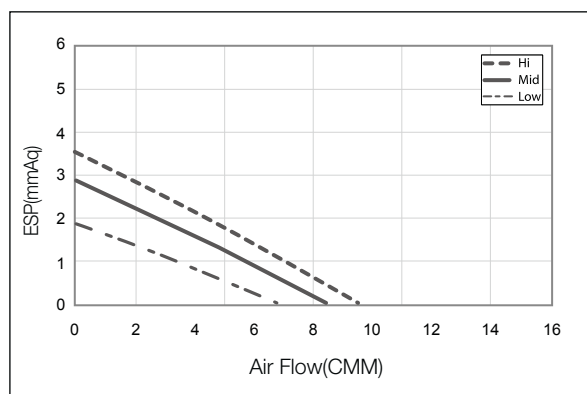
Branch ①



Branch ②



Branch ① + ②



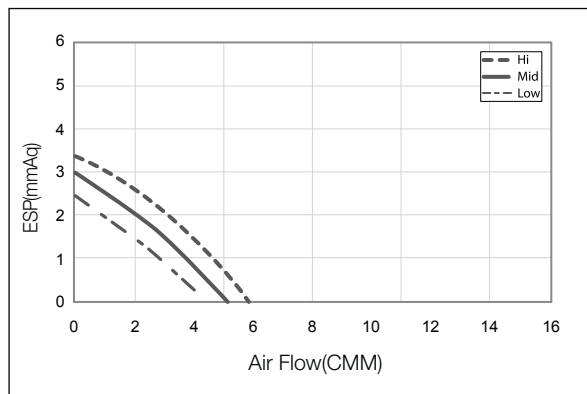
3 4 way cassette S

3-8. Sub duct

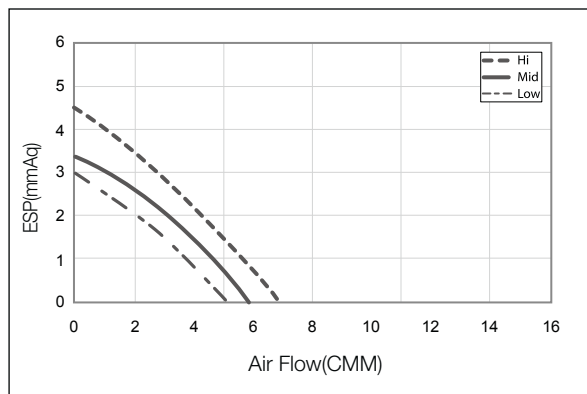
2) P-Q Curve

(2) NS0714PXEA

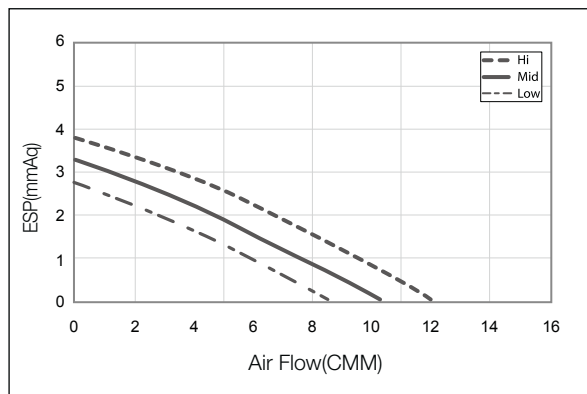
Branch ①



Branch ②

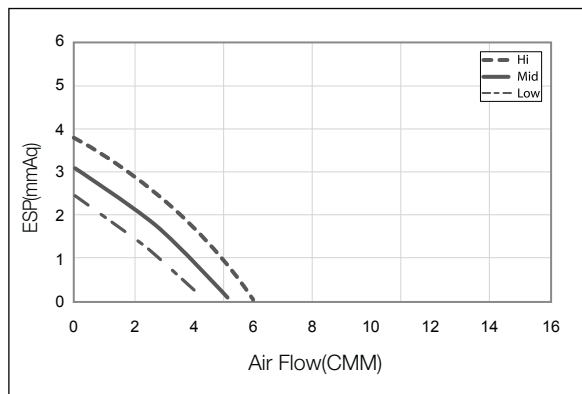


Branch ① + ②

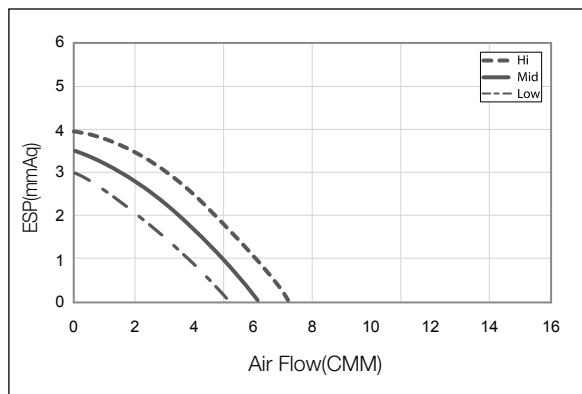


(3) NS0904DXEA

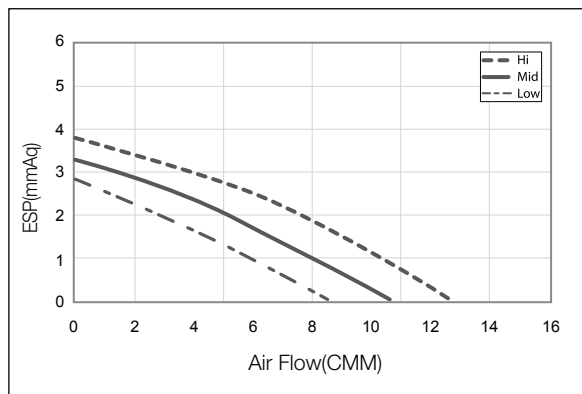
Branch ①



Branch ②

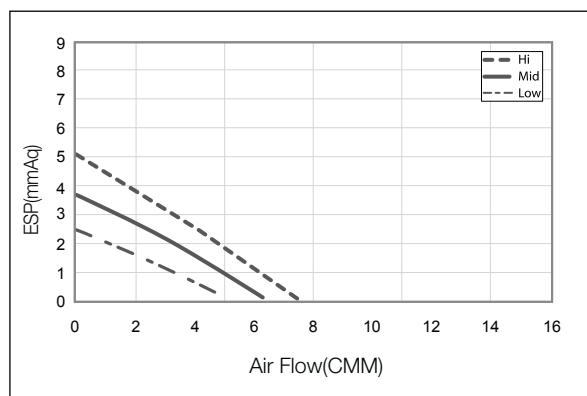


Branch ① + ②

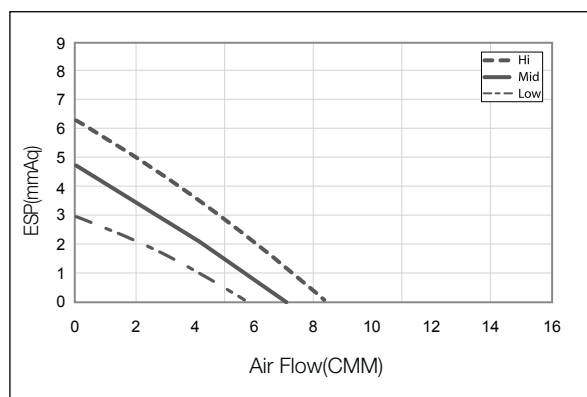


(4) NS0904PXEA

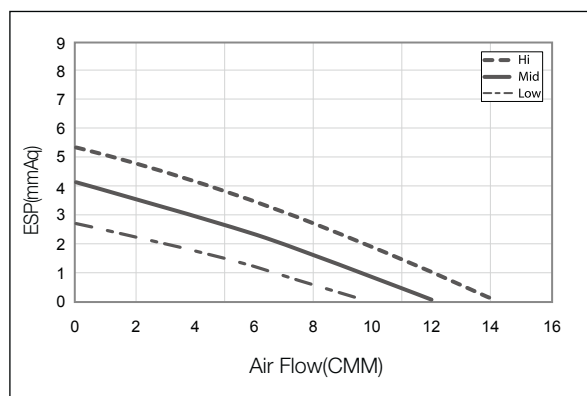
Branch ①



Branch ②

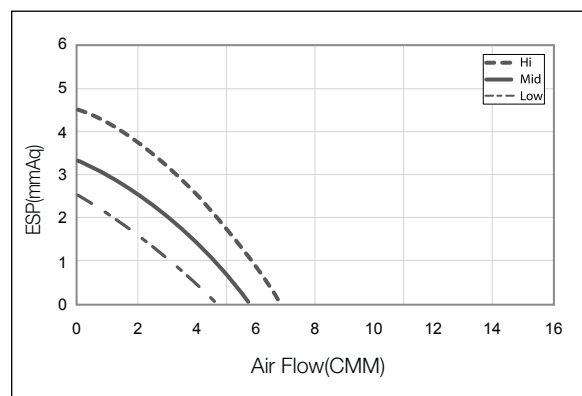


Branch ① + ②

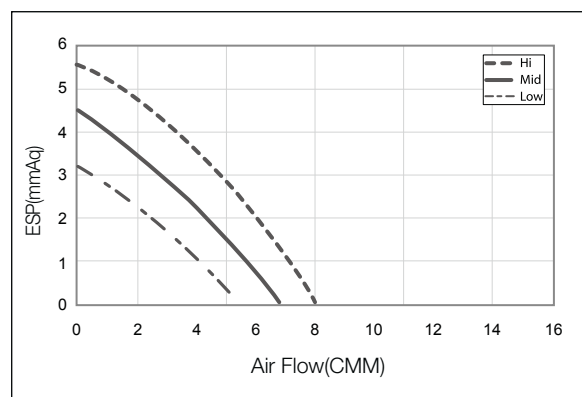


(5) NS1004DXEA

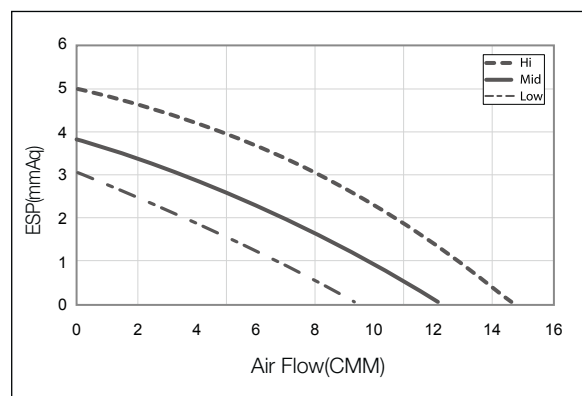
Branch ①



Branch ②



Branch ① + ②



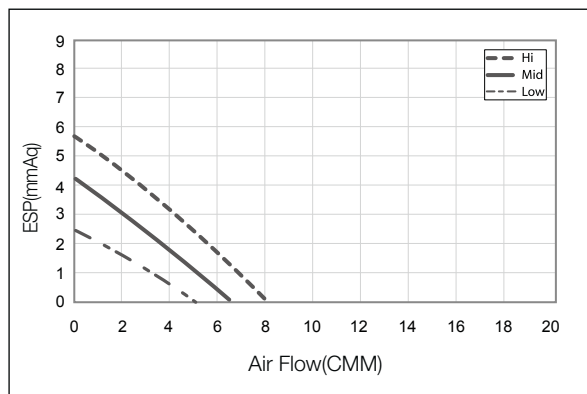
3 4 way cassette S

3-8. Sub duct

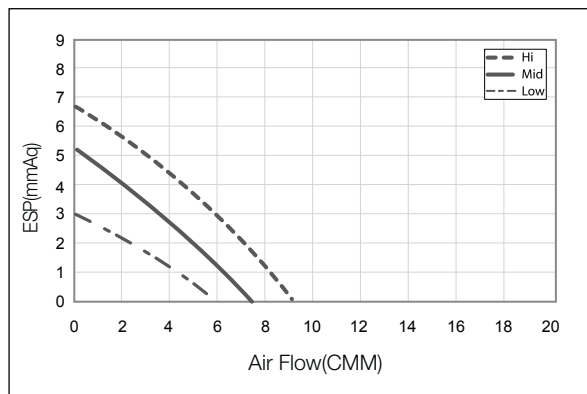
2) P-Q Curve

(6) NS1004PXEA

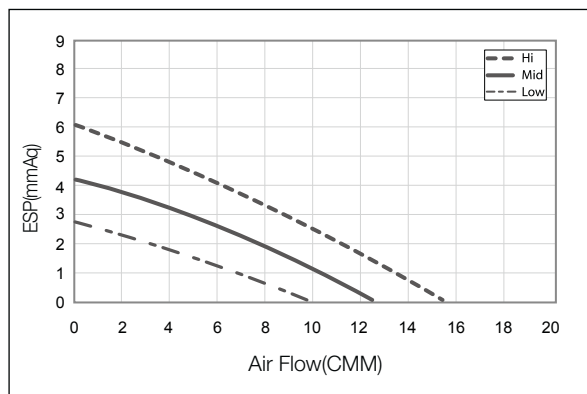
Branch ①



Branch ②

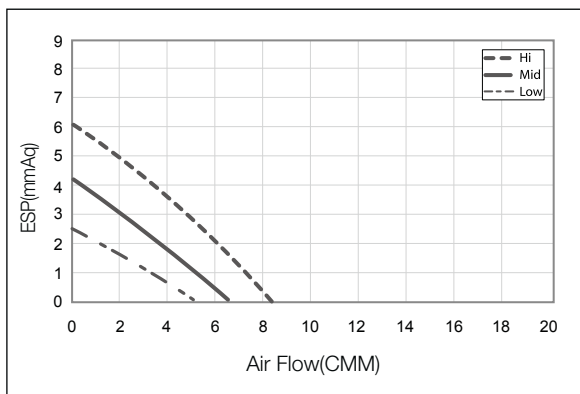


Branch ① + ②

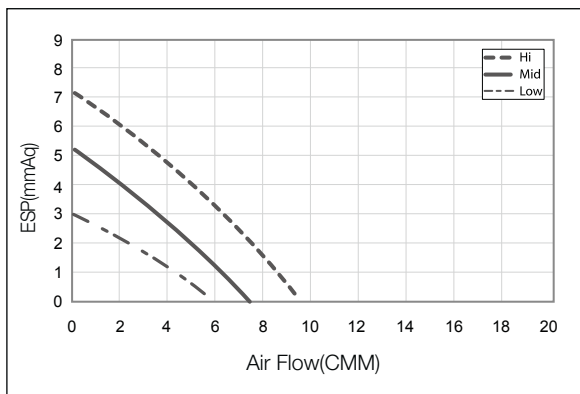


(7) NS1004ZXEA

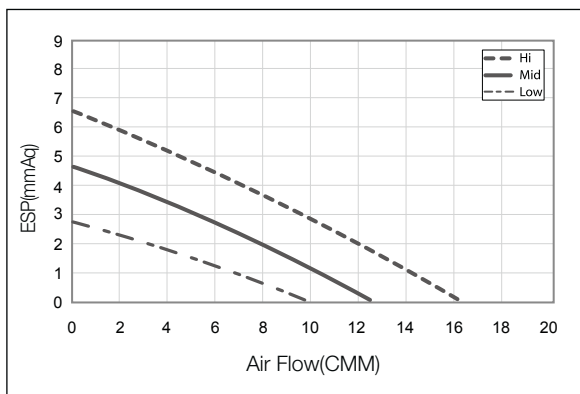
Branch ①



Branch ②

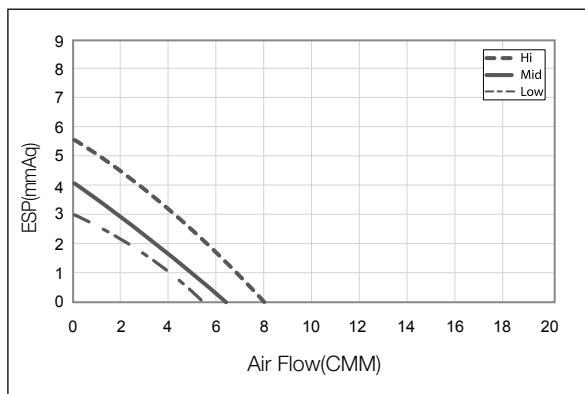


Branch ① + ②

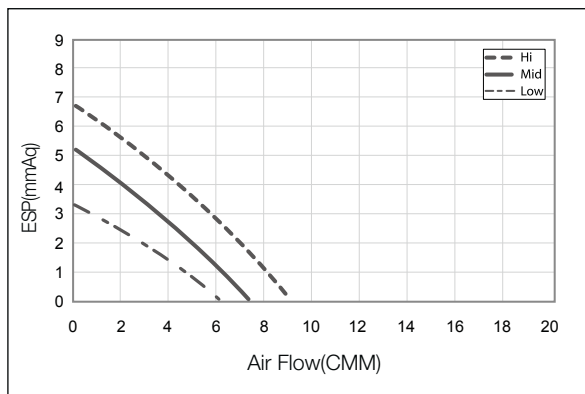


(8) NS1254D(P)XEA

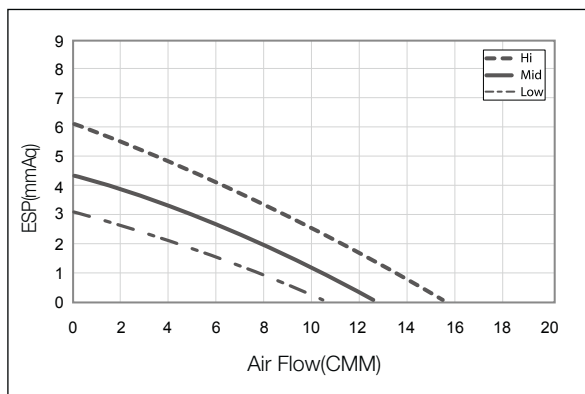
Branch ①



Branch ②

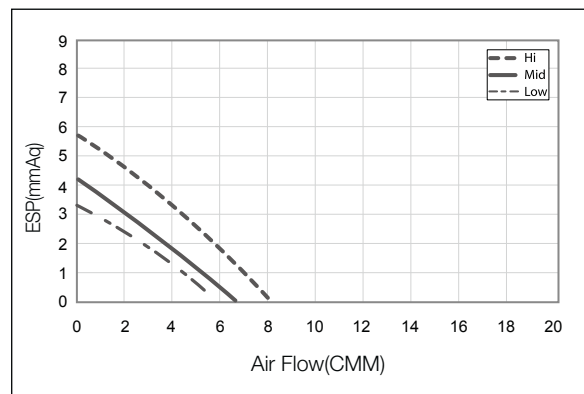


Branch ① + ②

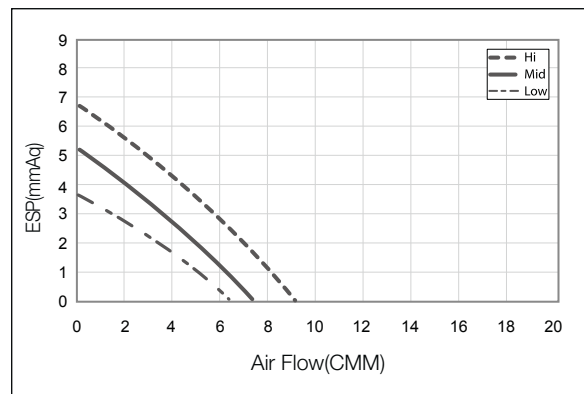


(9) NS1404DXEA

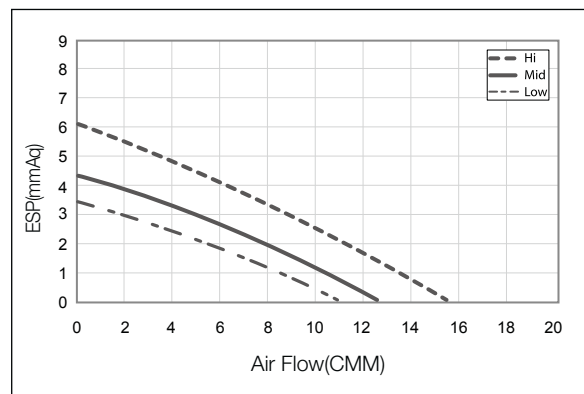
Branch ①



Branch ②



Branch ① + ②



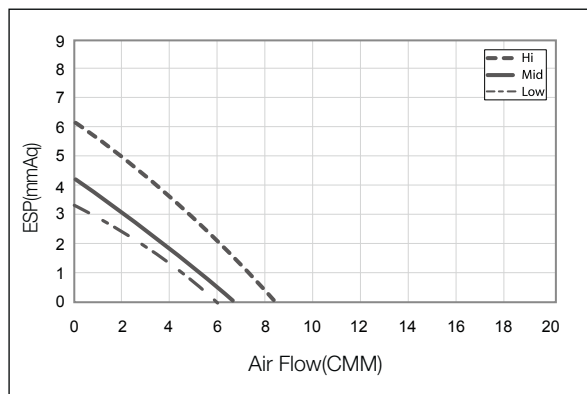
3 4 way cassette S

3-8. Sub duct

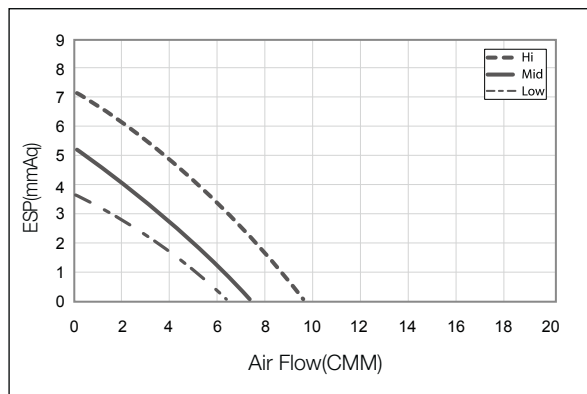
2) P-Q Curve

(10) NS1404PXE A

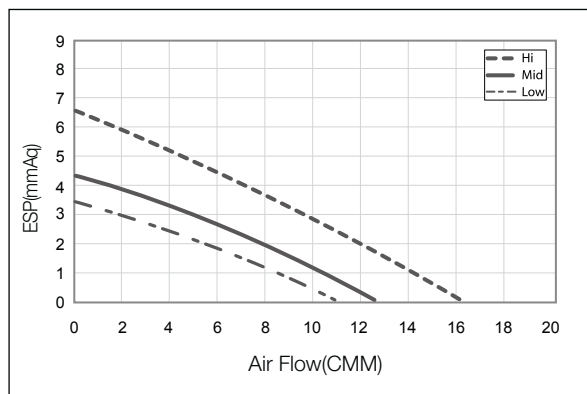
Branch ①

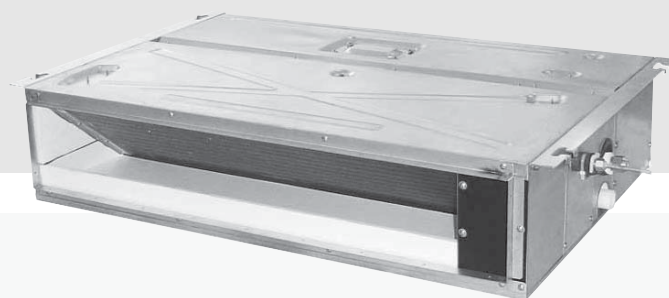


Branch ②



Branch ① + ②





4 Slim duct

4-1. Specifications.....	84
4-2. Capacity tables	85
4-3. Dimensional drawing.....	87
4-4. PCB connector lay-out.....	89
4-5. Electrical wiring diagram	90
4-6. Sound pressure level	91
4-7. Recommended operation range	92

4-1. Specifications

1) Technical specifications

Model Name		Indoor Unit		Outdoor Unit		NS035LDXEA	NS052LDXEA	NS071LDXEA				
						RC035DHXEA	RC052DHXEA	RC071DHXEA				
System	Mode					-	Heat Pump	Heat Pump				
	Capacity	Capacity (Nominal)	Cooling ^{*1)}	kW	0.95 / 3.50 / 4.00		1.20 / 5.00 / 6.00		2.20 / 7.10 / 8.00			
			(Min / Std / Max)		Btu/h		3,200 / 11,900 / 13,600		4,100 / 17,100 / 20,500		7,500 / 24,200 / 27,300	
			Heating ^{*2)}	kW	0.72 / 4.00 / 4.60		0.70 / 6.00 / 7.00		1.90 / 8.00 / 9.00			
			(Min / Std / Max)		Btu/h		2,500 / 13,600 / 15,700		2,400 / 20,500 / 23,900		6,500 / 27,300 / 30,700	
	Power	Power Input (Nominal)	Cooling ^{*1)}	kW	0.21 / 1.25 / 1.45		0.23 / 1.55 / 2.20		0.35 / 2.21 / 4.0			
			(Min / Std / Max)		0.18 / 1.17 / 1.40		0.28 / 1.65 / 2.20		0.35 / 2.32 / 4.0			
			Heating ^{*2)}	A	1.60 / 5.70 / 6.60		1.3 / 7.0 / 9.8		2.0 / 10.5 / 21.0			
			(Min / Std / Max)		1.20 / 5.70 / 6.60		1.6 / 7.5 / 10.0		2.0 / 10.5 / 21.0			
	COP	Nominal Cooling			-	2.81		3.23		3.21		
			Nominal Heating		-	3.41		3.64		3.61		
Energy Grade			Cooling / Heating	-	C / B		A / A		A / A			
Option Code				-	011037-1361DB-272328-370010		011014-1563E6-27343C-370010		011037-156377-274750-370010			
Piping Connections	Liquid Pipe				Ø, mm(inch)	6.35 (1/4)		6.35 (1/4)		6.35 (1/4)		
	Gas Pipe				Ø, mm(inch)	9.52 (3/8)		12.70 (1/2)		15.88 (5/8)		
	Installation Limitation	Max. Length		m	20.0		30.0		50.0			
		Max. Height		m	15.0		20.0		30.0			
Refrigerant	Type				-	R410A		R410A		R410A		
	Control Method				-	EEV		EEV		EEV		
	Factory Charging				kg	0.95		1.40		1.80		
Indoor Unit	Power Supply				Ø, #, V, Hz	1, 2, 220~240, 50		1, 2, 220~240, 50		1, 2, 220~240, 50		
	Fan	Type				-	Sirocco Fan / SSR		Sirocco Fan / SSR		Sirocco Fan / SSR	
		Motor		Output		W	72		120		60	
		Number of Unit				EA	1		1		1	
		Air Flow Rate	High / Mid / Low		CMM	9.0 / 8.0 / 7.0		12.0 / 11.5 / 10.0		19.0 / 17.0 / 15.0		
			CFM		318 / 283 / 247		424 / 460 / 353		671 / 600 / 530			
	External Static Pressure	Min / Std / Max		mmAq	0 / 2.5 / 4		0 / 2.5 / 4		0 / 2 / 4			
		Pa		0 / 24.5 / 39.2		0 / 24.5 / 39.2		0 / 19.6 / 39.2				
	Drain	Drain Pipe				Ø, mm	VP25 (OD 32,ID 25)		VP25 (OD 32,ID 25)		VP25 (OD 32,ID 25)	
	Sound	Sound Pressure ^{*3)}		High / Mid / Low		dB(A)	32 / 29 / 25		33 / 31 / 29		36 / 34 / 32	
	External Dimension	Net Weight				kg	26.0		31.0		32.0	
		Shipping Weight				kg	31.0		39.0		40.0	
		Net Dimensions (WxHxD)				mm	900 x 199 x 600		1,100 x 199 x 600		1,100 x 199 x 600	
		Shipping Dimensions (WxHxD)				mm	1,150 x 280 x 710		1,350 x 280 x 710		1,350 x 280 x 710	
	Panel Size	Panel model				-	-		-		-	
		Panel Net Weight				kg	-		-		-	
		Shipping Weight				kg	-		-		-	
		Net Dimensions (WxHxD)				mm	-		-		-	
	Additional Accessories	Shipping Dimensions (WxHxD)				mm	-		-		-	
Drain pump		Drain pump				-	Optional / MDP-E075SEE3		Optional / MDP-E075SEE3		Optional / MDP-E075SEE3	
		Max. Lifting Height / Displacement		mm / liter/h		750 / 24		750 / 24		750 / 24		
		Air Filter				-	Long life filter		Long life filter		Long life filter	
Outdoor Unit	Power Supply				Ø, #, V, Hz	1, 2, 220~240, 50		1, 2, 220~240, 50		1, 2, 220~240, 50		
	Compressor	Type				-	Single BLDC Rotary		Twin BLDC Rotary		Twin BLDC Rotary	
		Model				-	UG4C090LUDJR		UG4T150FUDJQ		UG4T200FUA4	
		Oil	Type				-	POE		POE		POE
	Initial Charge		cc		320		650		650			
	Fan	Air Flow Rate	Cooling / Heating	CMM	30 / 30		36 / 33		50.0 / 48.0			
			CFM	1,060 / 1,060		1,271 / 1,165		1,766 / 1,695				
	Sound	Sound Pressure ^{*3)}		Cooling / Heating	dB(A)	47 / 48		48 / 49		49 / 51		
	External Dimension	Net Weight				kg	33.0		38.5		55.0	
		Shipping Weight				kg	37.0		42.5		59.0	
		Net Dimensions (WxHxD)				mm	790 x 548 x 285		790 x 548 x 285		880 x 798 x 310	
Shipping Dimensions (WxHxD)				mm	926 x 655 x 382		926 x 655 x 382		1,023 x 891 x 413			
Operating Temp. Range	Cooling				°C	-10 ~ 46		-15 ~ 46		-15 ~ 50		
	Heating				°C	-15 ~ 24		-15 ~ 24		-20 ~ 24		

*Specifications may be subject to change without prior notice for product improvement.

*1) Nominal cooling capacities are based on;

- Indoor temperature : 27°C DB, 19°C WB / Outdoor temperature : 35°C DB, 24°C WB
- Equivalent refrigerant piping : 5m, Level differences : 0m

*2) Nominal heating capacities are based on;

- Indoor temperature : 20°C DB, 15°C WB / Outdoor temperature : 7°C DB, 6°C WB
- Equivalent refrigerant piping : 5m, Level differences : 0m

*3) Sound pressure was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

4-2. Capacity tables

1) RC035DHXEA+NS035LDXEA

(1) Cooling

TC(Total Capacity, kW), SHC(Sensible Heat Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)											
		-10			21			35			46		
WB	DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	3.30	2.48	0.98	3.74	2.80	0.95	3.25	2.44	1.16	2.70	2.02	1.21
16	22	3.38	2.54	1.00	3.83	2.87	0.97	3.33	2.50	1.19	2.76	2.07	1.24
18	25	3.46	2.60	1.02	3.92	2.94	1.00	3.42	2.56	1.22	2.83	2.12	1.27
19	27	3.55	2.66	1.05	4.02	3.02	1.02	3.50	2.63	1.25	2.90	2.18	1.30
22	30	3.64	2.73	1.08	4.12	3.09	1.04	3.58	2.69	1.27	2.97	2.23	1.33
24	32	3.72	2.79	1.10	4.22	3.16	1.07	3.67	2.75	1.31	3.04	2.28	1.36

(2) Heating

TC(Total Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)							
		-15		-10		7		24	
DB		TC	PI	TC	PI	TC	PI	TC	PI
16		2.50	1.20	3.32	1.32	4.08	1.20	4.29	1.17
18		2.47	1.19	3.28	1.30	4.04	1.18	4.25	1.16
20		2.45	1.18	3.25	1.29	4.00	1.17	4.21	1.15
21		2.43	1.17	3.22	1.28	3.96	1.16	4.17	1.14
22		2.40	1.16	3.19	1.26	3.92	1.15	4.13	1.13
24		2.38	1.14	3.15	1.25	3.88	1.14	4.08	1.12

2) RC052DHXEA+NS052LDXEA

(1) Cooling

TC(Total Capacity, kW), SHC(Sensible Heat Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)											
		-15			21			35			46		
WB	DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	4.61	3.46	1.11	5.53	4.15	1.21	4.65	3.49	1.44	3.30	2.48	1.32
16	22	4.72	3.54	1.13	5.67	4.25	1.24	4.76	3.57	1.48	3.38	2.54	1.35
18	25	4.84	3.63	1.16	5.81	4.36	1.27	4.88	3.66	1.51	3.46	2.60	1.39
19	27	4.96	3.72	1.19	5.95	4.46	1.30	5.00	3.75	1.55	3.55	2.66	1.42
22	30	5.08	3.81	1.22	6.09	4.57	1.33	5.12	3.84	1.59	3.64	2.73	1.45
24	32	5.20	3.90	1.25	6.24	4.68	1.36	5.24	3.93	1.63	3.72	2.79	1.49

(2) Heating

TC(Total Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)							
		-15		-10		7		24	
DB		TC	PI	TC	PI	TC	PI	TC	PI
16		4.46	2.02	5.08	2.15	6.12	1.68	7.60	1.98
18		4.41	2.00	5.03	2.13	6.06	1.67	7.52	1.96
20		4.37	1.98	4.98	2.11	6.00	1.65	7.45	1.94
21		4.33	1.96	4.93	2.09	5.94	1.63	7.38	1.92
22		4.28	1.94	4.88	2.07	5.88	1.62	7.30	1.90
24		4.24	1.92	4.83	2.05	5.82	1.60	7.23	1.88

Note

- ◆ Ratings shown are net capacities.
- ◆ Capacities are based on following conditions;
 - Equivalent refrigerant piping length : 5m / Level difference : 0m.

4-2. Capacity tables

3) RC071DHXEA+NS071LDXEA

(1) Cooling

TC(Total Capacity, kW), SHC(Sensible Heat Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)														
		-15			-10			21			35			50		
WB	DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	7.17	5.18	1.05	7.34	5.29	1.38	7.44	5.35	1.96	6.30	4.36	2.21	5.29	4.35	2.43
16	22	7.68	5.18	1.10	7.70	5.20	1.38	7.79	5.26	1.96	6.63	4.30	2.21	5.57	4.29	2.46
18	25	8.00	5.43	1.10	8.06	5.46	1.41	8.18	5.54	1.96	6.94	4.52	2.21	5.84	4.51	2.46
19	27	8.17	5.72	1.10	8.21	5.76	1.41	8.37	5.88	1.96	7.10	4.80	2.21	5.98	4.80	2.46
22	30	8.66	5.49	1.13	8.75	5.55	1.41	8.91	5.69	1.99	7.57	4.64	2.24	6.39	4.64	2.46
24	32	9.00	5.35	1.13	9.08	5.41	1.43	9.26	5.54	1.99	7.90	4.54	2.24	6.67	4.54	2.51

(2) Heating

TC(Total Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)											
		-20		-10		-5		2		7		24	
DB		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
16		4.85	2.73	7.08	2.57	7.44	2.65	7.72	2.46	8.22	2.27	8.65	2.21
18		5.20	2.76	6.90	2.61	7.29	2.77	7.63	2.49	8.12	2.29	8.53	2.21
20		5.41	2.81	6.74	2.64	7.19	2.80	7.50	2.49	8.00	2.32	8.53	2.24
21		5.52	2.81	6.69	2.64	7.10	2.80	7.45	2.53	7.95	2.32	8.36	2.27
22		5.86	2.81	6.59	2.64	7.05	2.84	7.37	2.53	7.88	2.32	8.32	2.27
24		6.09	2.84	6.46	2.68	6.90	2.88	7.26	2.56	7.78	2.35	8.21	2.29

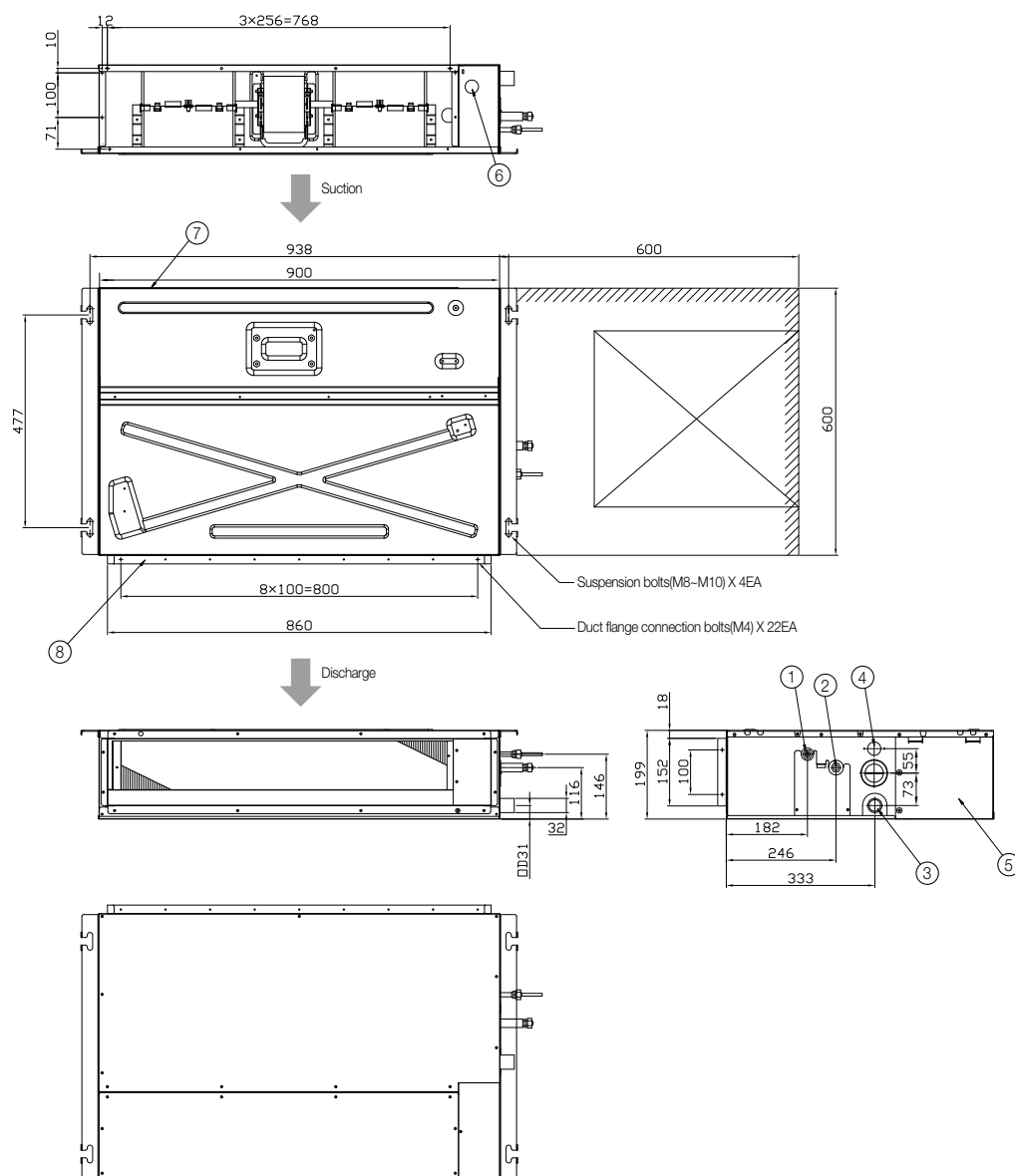
☒ Note

- ◆ Ratings shown are net capacities.
- ◆ Capacities are based on following conditions;
 - Equivalent refrigerant piping length : 5m / Level difference : 0m.

4-3. Dimensional drawing

1) NS035LDXEA

Unit:mm

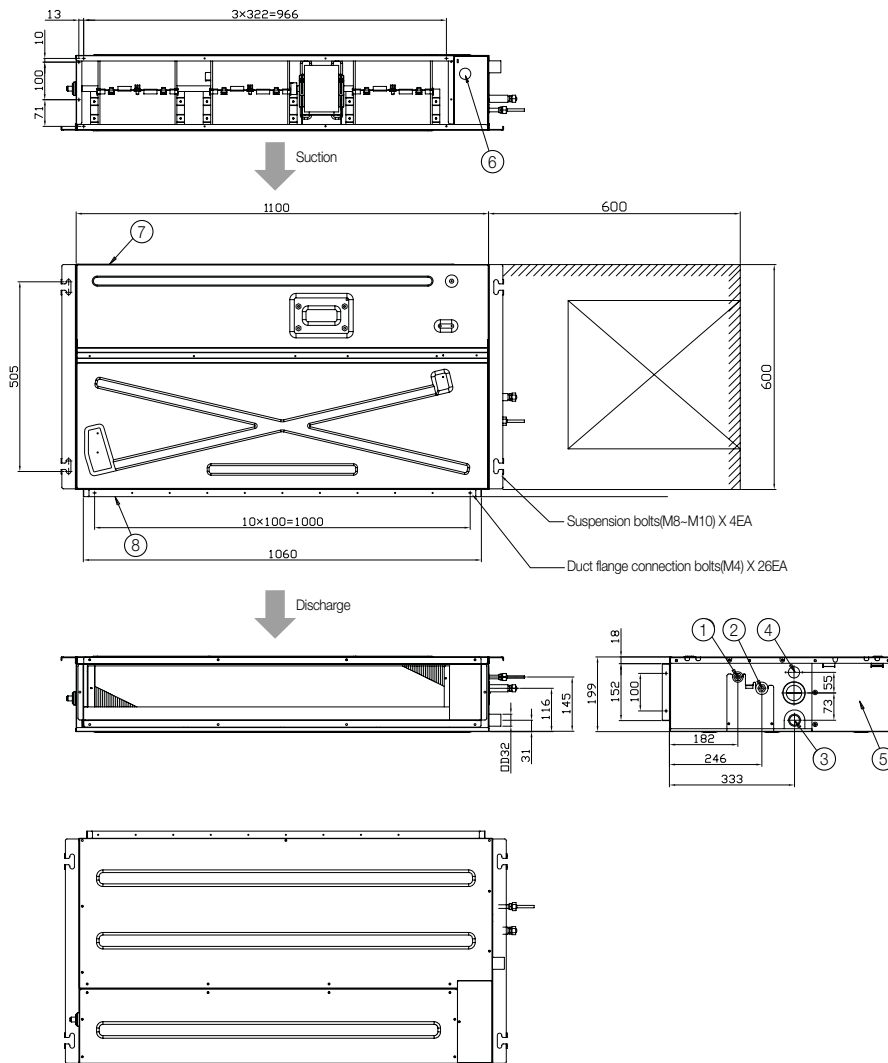


No.	Name	Description
		3.5kW
①	Liquid pipe connection	Ø6.35mm (1/4") Flare
②	Gas pipe connection	Ø9.52mm (3/8") Flare
③	Drain pipe connection without optional drain pump kits	VP25 (OD32, ID25)
④	Drain pipe connection with optional drain pump kits	-
⑤	Control unit	-
⑥	Conduit for power supply & communication wiring	-
⑦	Return air side	-
⑧	Air outlet duct flange	-

4-3. Dimensional drawing

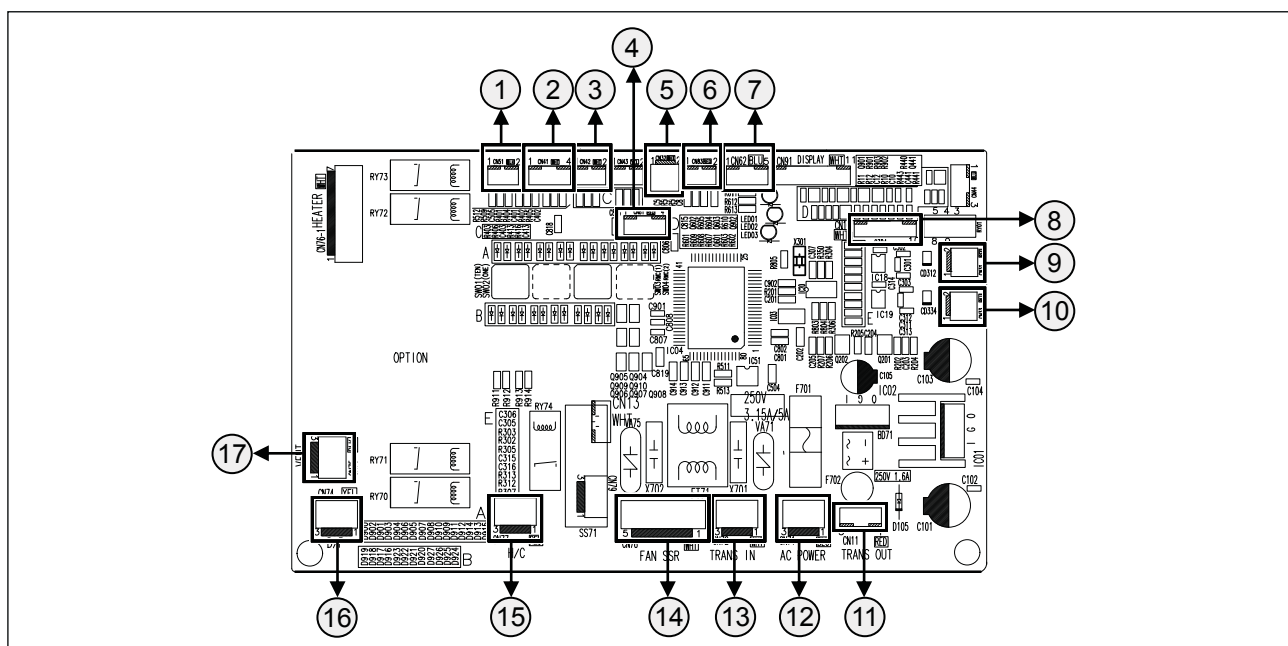
2) NS052/071LDXEA

Unit:mm



No.	Name	Description	
		5.2kW	7.1kW
①	Liquid pipe connection	Ø6.35mm (1/4") Flare	Ø6.35mm (1/4") Flare
②	Gas pipe connection	Ø12.7mm (1/2") Flare	Ø15.88mm (5/8") Flare
③	Drain pipe connection without optional drain pump kits	VP25 (OD32, ID25)	
④	Drain pipe connection with optional drain pump kits	-	
⑤	Control unit	-	
⑥	Conduit for power supply & communication wiring	-	
⑦	Return air side	-	
⑧	Air outlet duct flange	-	

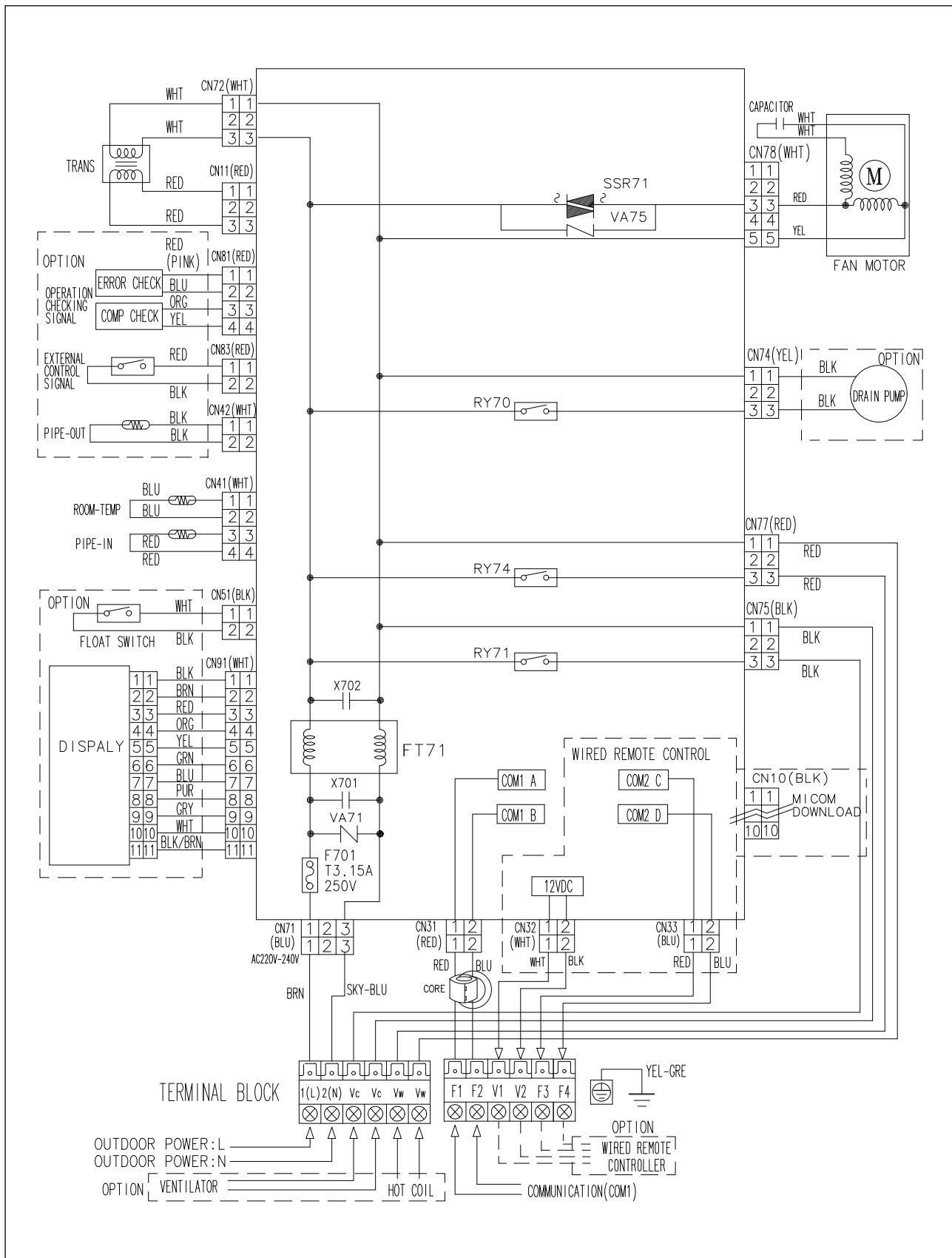
4-4. PCB connector lay-out



No.	CN #	Color	Function
①	CN51	Black	Float Switch
②	CN41	White	Indoor Room & Eva In Temp. Sensor
③	CN42	White	Eva Out Temp. Sensor
④	CN81	Red	External Control (Error Check, Indoor Unit Operation)
⑤	CN32	White	DC 12V for Wired Remote Controller
⑥	CN83	Red	External Contact Control
⑦	CN91	White	Display
⑧	CN10	White	Micom Download
⑨	CN31	Red	Communication 1 – F1, F2 (IDU~ODU)
⑩	CN33	Blue	COM2 Communication – F3, F4 (for Wired Remote Controller)
⑪	CN11	Red	Trans-Out
⑫	CN71	Blue	AC Power
⑬	CN72	White	Trans-In
⑭	CN78	White	Fan (SSR)
⑮	CN77	Red	Hot Water Coil
⑯	CN74	Yellow	Drain Pump
⑰	CN75	Black	Ventilator

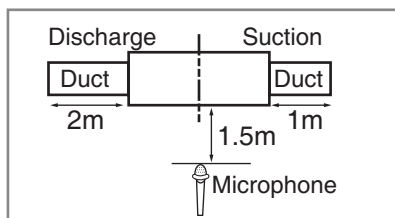
4-5. Electrical wiring diagram

1) NS035/052/071LDXE



4-6. Sound pressure level

1) Operation sound level



Unit : dB(A)

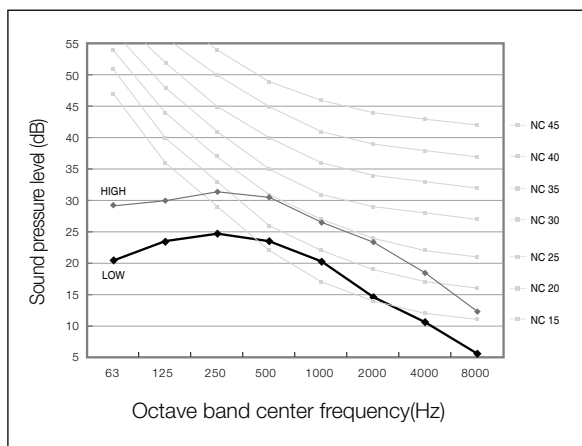
Model	High	Low
NS035LDXEA	32	25
NS052LDXEA	33	29
NS071LDXEA	36	32

☑ Note

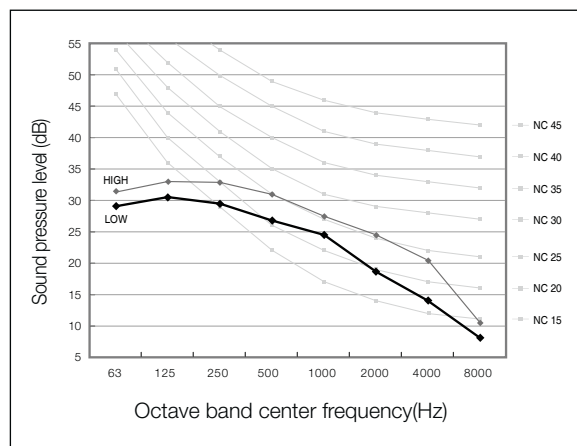
- ◆ These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- ◆ Operation sound level may differ depending on operation and ambient conditions.

2) NC curves

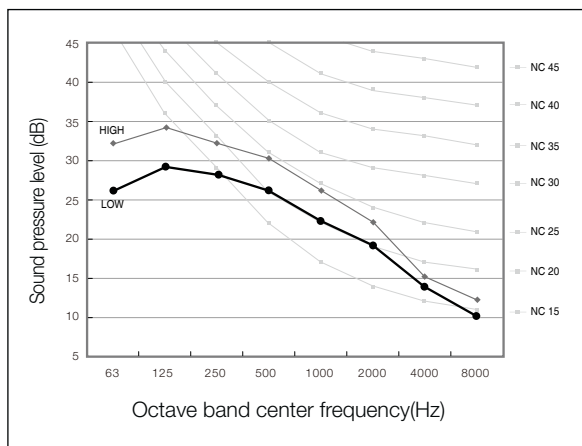
(1) NS035LDXEA



(2) NS052LDXEA



(3) NS071LDXEA

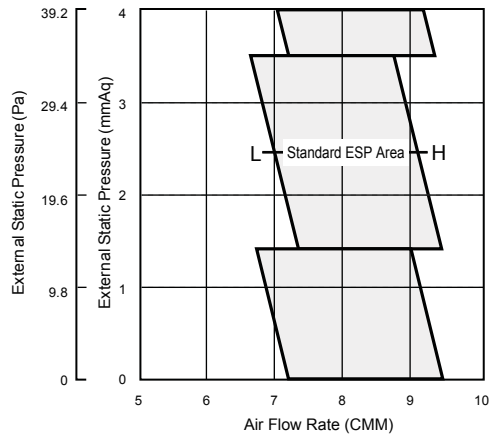


4 Slim duct

4-7. Recommended operation range

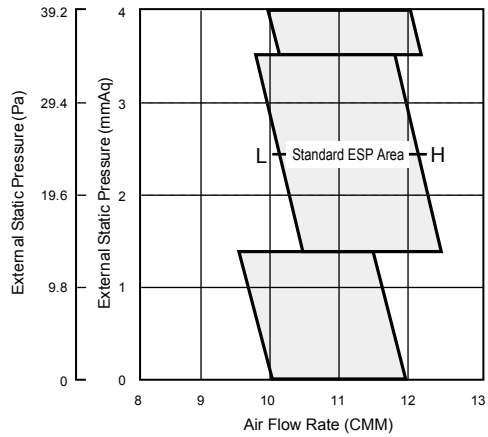
◆ Adjust option code according to the actual installation condition (external static pressure).

(1) NS035LDXEA



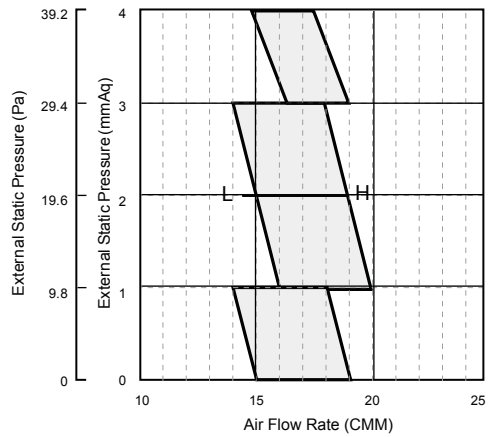
External Static pressure (mmAq)	Option code
0	011037-136153-272328-370010
2.5	011037-1361DB-272328-370010
4	011047-136220-272328-370010

(2) NS052LDXEA



External Static pressure (mmAq)	Option code
0	011014-156360-27343C-370010
2.5	011014-1563E6-27343C-370010
4	011034-15616C-27343C-370010

(3) NS071LDXEA



External Static pressure (mmAq)	Option code
0	011037-156175-274750-370010
2	011037-156377-274750-370010
4	011037-1163FB-274750-370010

✓ Note

- ◆ ESP = 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.



5 MSP(Middle static pressure) duct

5-1. Specifications.....	94
5-2. Capacity tables	98
5-3. Dimensional drawing	103
5-4. PCB connector lay-out.....	107
5-5. Electrical wiring diagram	108
5-6. Sound pressure level	111
5-7. Recommended operation range	112

5-1. Specifications

1) Technical specifications

Model Name		Indoor Unit			Outdoor Unit			NS052SDXEA	NS071SDXEA	NS090SDXEA				
								RC052DHXEA	RC071DHXEA	RC090DHXEA				
System	Mode				-				Heat Pump	Heat Pump	Heat Pump			
	Capacity	Capacity (Nominal)	Cooling ^{*1)} (Min / Std / Max)	kW	1.00 / 5.00 / 5.90			2.2 / 7.1 / 8.0			2.8 / 9.0 / 11.5			
			Heating ^{*2)} (Min / Std / Max)	Btu/h	3,400 / 17,100 / 20,100			7,500 / 24,200 / 27,300			9,600 / 30,700 / 39,200			
	Power	Power Input (Nominal)	Cooling ^{*1)} (Min / Std / Max)	kW	0.43 / 1.56 / 2.20			0.35 / 2.21 / 4.0			0.82 / 2.8 / 3.8			
			Heating ^{*2)} (Min / Std / Max)		0.33 / 1.76 / 2.30			0.35 / 2.22 / 4.0			0.8 / 2.77 / 5.2			
		Current Input (Nominal)	Cooling ^{*1)} (Min / Std / Max)	A	2.2 / 7.5 / 10.0			2.0 / 10.5 / 21.0			4 / 13 / 16.5			
			Heating ^{*2)} (Min / Std / Max)		1.9 / 8.4 / 10.0			2.0 / 10.5 / 21.0			3.3 / 12.5 / 24			
	COP	Nominal Cooling				-	3.21			3.21			3.21	
		Nominal Heating				-	3.41			3.61			3.61	
		Energy Grade		Cooling / Heating	-	A / B			A / A			A / A		
Option Code				-	011014-1963A2-27343C-370010			011037-11618C-274750-370010			011044-156299-275A64-350000			
Piping Connections	Liquid Pipe				Ø, mm(inch)	6.35 (1/4)			6.35 (1/4)			9.52 (3/8)		
	Gas Pipe				Ø, mm(inch)	12.70 (1/2)			15.88 (5/8)			15.88 (5/8)		
	Installation Limitation	Max. Length			m	30.0			50.0			50.0		
		Max. Height			m	20.0			30.0			30.0		
Refrigerant	Type				-	R410A			R410A			R410A		
	Control Method				-	EEV			EEV			EEV		
	Factory Charging				kg	1.40			1.80			3.00		
Indoor Unit	Power Supply				Ø, #, V, Hz	1, 2, 220~240, 50			1, 2, 220~240, 50			1, 2, 220~240, 50		
	Fan	Type				-	Sirocco Fan / SSR			Sirocco Fan			Sirocco Fan	
		Motor	Output			W	150			200			200	
						EA	2			2			2	
		Air Flow Rate	High / Mid / Low			CMM	16.5 / 15.0 / 13.5			19.0 / 17.0 / 15.0			34.0 / 31.0 / 28.0	
		External Static Pressure	Min / Std / Max			CFM	583 / 530 / 477			671 / 600 / 530			1,204 / 1,095 / 989	
	Drain	Pressure				mmAq	0 / 2.5 / 8			0 / 4 / 10			0 / 4 / 10	
						Pa	0 / 24.5 / 78.5			0 / 39.2 / 98.1			0 / 39.2 / 98.1	
	Sound	Drain Pipe				Ø, mm	VP25 (OD 32,ID 25)			VP25 (OD 32,ID 25)			VP25 (OD 32,ID 25)	
	External Dimension	Sound Pressure ^{*3)}	High / Mid / Low			dB(A)	37 / 35 / 33			39 / 37 / 35			39 / 37 / 35	
		Net Weight			kg	29.5			33.0			39.0		
			Shipping Weight				kg	34.5			40.0			46.0
	Net Dimensions (WxHxD)				mm	900 x 260 x 480			1,150 x 260 x 480			1,150 x 320 x 480		
	Panel Size	Shipping Dimensions (WxHxD)				mm	1,146 x 363 x 584			1,405 x 354 x 593			1,400 x 430 x 590	
		Panel model				-	-			-			-	
		Panel Net Weight				kg	-			-			-	
Shipping Weight				kg	-			-			-			
Net Dimensions (WxHxD)				mm	-			-			-			
Shipping Dimensions (WxHxD)				mm	-			-			-			
Additional Accessories	Drain pump	Drain pump			-	Optional / MDP-M075SGU3			Optional / MDP-M075SGU1			Optional / MDP-M075SGU1		
		Max. Lifting Height / Displacement			mm / liter/h	750 / 24			750 / 24			750 / 24		
	Air Filter				-	Long life filter			Long life filter			Long life filter		
Outdoor Unit	Power Supply				Ø, #, V, Hz	1, 2, 220~240, 50			1, 2, 220~240, 50			1, 2, 220~240, 50		
	Compressor	Type				-	Twin BLDC Rotary			Twin BLDC Rotary			Twin BLDC Rotary	
		Model				-	UG4T150FUDJQ			UG4T200FUAE4			UG8T300FUBJU	
		Oil	Type			-	POE			POE			POE	
	Fan	Air Flow Rate	Cooling / Heating			CMM	36 / 33			50.0 / 48.0			63.5 / 63.5	
						CFM	1,271 / 1,165			1,766 / 1,695			2,243 / 2,243	
	Sound	Sound Pressure ^{*3)}	Cooling / Heating			dB(A)	48 / 49			49 / 51			51 / 52	
	External Dimension	Net Weight				kg	38.5			55.0			72.0	
		Shipping Weight				kg	42.5			59.0			77.0	
		Net Dimensions (WxHxD)				mm	790 x 548 x 285			880 x 798 x 310			940 x 998 x 330	
Shipping Dimensions (WxHxD)				mm	926 x 655 x 382			1,023 x 891 x 413			995 x 1,096 x 426			
Operating Temp. Range	Cooling				°C	-15 ~ 46			-15 ~ 50			-15 ~ 50		
	Heating				°C	-15 ~ 24			-20 ~ 24			-20 ~ 24		

*Specifications may be subject to change without prior notice for product improvement.

*1) Nominal cooling capacities are based on;

- Indoor temperature : 27°C DB, 19°C WB / Outdoor temperature : 35°C DB, 24°C WB
- Equivalent refrigerant piping : 5m, Level differences : 0m

*2) Nominal heating capacities are based on;

- Indoor temperature : 20°C DB, 15°C WB / Outdoor temperature : 7°C DB, 6°C WB
- Equivalent refrigerant piping : 5m, Level differences : 0m

*3) Sound pressure was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

Model Name		Indoor Unit		Outdoor Unit		NS100SDXEA	NS100SDXEA	NS125SDXEA	NS125SDXEA	
						RC100DHEXA	RC100DHXGA	RC125DHEXB	RC125DHXGA	
System	Mode				-	Heat Pump	Heat Pump	Heat Pump	Heat Pump	
	Capacity	Capacity (Nominal)	Cooling ^{*1)}	kW	3.2 / 10.0 / 12.0	4.0 / 10.0 / 12.0	3.45 / 12.5 / 14.0	3.45 / 12.5 / 14.0		
			(Min / Std / Max)	Btu/h	10,900 / 34,100 / 40,900	13,600 / 34,100 / 40,900	11,800 / 42,700 / 47,800	11,800 / 42,700 / 47,800		
			Heating ^{*2)}	kW	3.0 / 11.2 / 15.5	4.3 / 11.2 / 15.5	4.1 / 14.0 / 18.0	4.1 / 14.0 / 18.0		
			(Min / Std / Max)	Btu/h	10,200 / 38,200 / 52,900	14,700 / 38,200 / 52,900	14,000 / 47,800 / 61,400	14,000 / 47,800 / 61,400		
	Power	Power Input (Nominal)	Cooling ^{*1)}	kW	0.88 / 3.12 / 5	1.2 / 3.12 / 4.7	1.25 / 3.89 / 5.3	1.25 / 3.89 / 5.3		
			Heating ^{*2)}		0.71 / 3.1 / 5.5	0.93 / 3.1 / 5.8	0.98 / 3.88 / 5.6	0.98 / 3.88 / 5.6		
		Current Input (Nominal)	Cooling ^{*1)}	A	4 / 13.8 / 21	2.2 / 5 / 7.3	5.7 / 18 / 24.3	2.0 / 6.1 / 8.2		
			Heating ^{*2)}		3.3 / 13.5 / 24	1.7 / 5 / 9	4.5 / 18 / 25.6	1.5 / 6.1 / 8.6		
	COP	Nominal Cooling		-	3.21	3.21	3.21	3.21		
		Nominal Heating		-	3.61	3.61	3.61	3.61		
		Energy Grade	Cooling / Heating	-	A / A	A / A	A / A	A / A		
	Option Code					-	011044-1560E8 -276470-370000	011044-1560E8 -276470-370000	011044-1570F8 -277D8C-370000	011044-1570F8 -277D8C-370000
	Piping Connections	Liquid Pipe		Ø, mm(inch)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)		
		Gas Pipe		Ø, mm(inch)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)		
		Installation Limitation	Max. Length	m	50.0	50.0	75.0	75.0		
	Refrigerant	Type		-	R410A	R410A	R410A	R410A		
Control Method		-	EEV	EEV	EEV	EEV				
Factory Charging		kg	3.00	3.10	2.90	2.90				
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		
	Fan	Type		-	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan		
		Motor		W	370	370	370	370		
		Number of Unit		EA	2	2	2	2		
		Air Flow Rate	High / Mid / Low	CMM	39.0 / 36.0 / 33.0	39.0 / 36.0 / 33.0	42.0 / 38.5 / 35.0	42.0 / 38.5 / 35.0		
				CFM	1,377 / 1,271 / 1,165	1,377 / 1,271 / 1,165	1,483 / 1,360 / 1,236	1,483 / 1,360 / 1,236		
	External Static Pressure	Min / Std / Max	mmAq	0 / 4 / 14	0 / 4 / 14	0 / 6 / 14	0 / 6 / 14			
			Pa	0 / 39.2 / 137.3	0 / 39.2 / 137.3	0 / 58.8 / 137.3	0 / 58.8 / 137.3			
	Drain	Drain Pipe		Ø, mm	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)		
	Sound	Sound Pressure ^{*3)}		High / Mid / Low	dB(A)	39 / 37 / 35	39 / 37 / 35	43 / 40.5 / 38	43 / 40.5 / 38	
		Net Weight	kg			55.0	55.0	55.0	55.0	
	Shipping Weight	kg	60.0		60.0	60.0	60.0			
	External Dimension	Net Dimensions (WxHxD)			mm	1,200 x 360 x 650	1,200 x 360 x 650	1,200 x 360 x 650	1,200 x 360 x 650	
		Shipping Dimensions (WxHxD)			mm	1,447 x 425 x 769	1,447 x 425 x 769	1,447 x 425 x 769	1,447 x 425 x 769	
		Panel model			-	-	-	-	-	
		Panel Size	Panel Net Weight		kg	-	-	-	-	
	Shipping Weight		kg		-	-	-	-		
	Net Dimensions (WxHxD)		mm		-	-	-	-		
	Shipping Dimensions (WxHxD)		mm		-	-	-	-		
	Additional Accessories	Drain pump	Drain pump		-	Optional / MDP-M075SGU2	Optional / MDP-M075SGU2	Optional / MDP-M075SGU2	Optional / MDP-M075SGU2	
			Max. Lifting Height / Displacement	mm / liter/h	750 / 24	750 / 24	750 / 24	750 / 24		
		Air Filter		-	Long life filter	Long life filter	Long life filter	Long life filter		
	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	
		Compressor	Type		-	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary	
			Model		-	UG8T300FUBJU	UG5T450FUFJX	UG5T450FUFJX	UG5T450FUFJX	
			Oil	Type	-	POE	POE	POE	POE	
Initial Charge		cc		1,250	1,750	1,750	1,750			
Fan		Air Flow Rate	Cooling / Heating	CMM	68.0 / 68.0	65.5 / 65.5	90.5 / 90.5	90.5 / 90.5		
			CFM	2,401 / 2,401	2,313 / 2,313	3,196 / 3,196	3,196 / 3,196			
Sound		Sound Pressure ^{*3)}	Cooling / Heating	dB(A)	52 / 53	52 / 53	51 / 52	51 / 52		
			Net Weight	kg	72.0	81.0	88.0	91.0		
External Dimension		Shipping Weight		kg	77.0	86.0	98.0	101.0		
		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 1,338 x 426	995 x 1,338 x 426		
		Operating Temp. Range	Cooling		°C	-15 ~ 50	-15 ~ 50	-15 ~ 50	-15 ~ 50	
Heating			°C	-20 ~ 24	-20 ~ 24	-20 ~ 24	-20 ~ 24			

*Specifications may be subject to change without prior notice for product improvement.

*1) Nominal cooling capacities are based on;

- Indoor temperature : 27°C DB, 19°C WB / Outdoor temperature : 35°C DB, 24°C WB
- Equivalent refrigerant piping : 5m, Level differences : 0m

*2) Nominal heating capacities are based on;

- Indoor temperature : 20°C DB, 15°C WB / Outdoor temperature : 7°C DB, 6°C WB
- Equivalent refrigerant piping : 5m, Level differences : 0m

*3) Sound pressure was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

5-1. Specifications

1) Technical specifications

Model Name		Indoor Unit			Outdoor Unit			NS140SDXEA			RC140DHXEB			NS140SDXEA			RC140DHXGA		
System	Mode						-		Heat Pump			Heat Pump			Heat Pump				
	Capacity	Capacity (Nominal)	Cooling ^{*1)}	(Min / Std / Max)	kW	3.45 / 14.0 / 15.4			3.45 / 14.0 / 15.4			3.45 / 14.0 / 15.4							
			Heating ^{*2)}	(Min / Std / Max)	Btu/h	11,800 / 47,800 / 52,500			11,800 / 47,800 / 52,500			11,800 / 47,800 / 52,500							
	Power	Power Input (Nominal)	Cooling ^{*1)}	(Min / Std / Max)	kW	1.25 / 4.65 / 5.70			1.25 / 4.65 / 5.70										
			Heating ^{*2)}	(Min / Std / Max)	kW	1.00 / 4.43 / 5.80			1.00 / 4.43 / 5.80										
		Current Input (Nominal)	Cooling ^{*1)}	(Min / Std / Max)	A	5.7 / 21.3 / 26.1			2.0 / 7.2 / 8.8										
			Heating ^{*2)}	(Min / Std / Max)	A	4.5 / 20.3 / 26.5			1.6 / 6.9 / 9.0										
	COP	Nominal Cooling				-	3.01			3.01									
		Nominal Heating				-	3.61			3.61									
		Energy Grade	Cooling / Heating	-	B / A			B / A											
	Option Code						-	011044-167208-278CA0-370000			011044-167208-278CA0-370000								
Piping Connections	Liquid Pipe				Ø, mm(inch)	9.52 (3/8)			9.52 (3/8)										
	Gas Pipe				Ø, mm(inch)	15.88 (5/8)			15.88 (5/8)										
	Installation Limitation	Max. Length			m	75.0			75.0										
		Max. Height			m	30.0			30.0										
Refrigerant	Type				-	R410A			R410A										
	Control Method				-	EEV			EEV										
	Factory Charging				kg	3.40			3.40										
Indoor Unit	Power Supply				Ø, #, V, Hz	1, 2, 220~240, 50			1, 2, 220~240, 50										
	Fan	Type				-	Sirocco Fan			Sirocco Fan									
		Motor		Output	W	370			370										
		Number of Unit				EA	2			2									
		Air Flow Rate	High / Mid / Low	CMM	43.0 / 39.0 / 35.0			43.0 / 39.0 / 35.0											
				CFM	1,512 / 1,377 / 1,236			1,512 / 1,377 / 1,236											
	External Static Pressure	Min / Std / Max	mmAq	0 / 6 / 14			0 / 6 / 14												
			Pa	0 / 58.8 / 137.3			0 / 58.8 / 137.3												
	Drain	Drain Pipe				Ø, mm	VP25 (OD 32,ID 25)			VP25 (OD 32,ID 25)									
	Sound	Sound Pressure ^{*3)}	High / Mid / Low			dB(A)	43 / 40.5 / 38			43 / 40.5 / 38									
	External Dimension	Net Weight				kg	55.0			55.0									
		Shipping Weight				kg	60.0			60.0									
		Net Dimensions (WxHxD)				mm	1,200 x 360 x 650			1,200 x 360 x 650									
		Shipping Dimensions (WxHxD)				mm	1,447 x 425 x 769			1,447 x 425 x 769									
	Panel Size	Panel model				-	-			-									
		Panel Net Weight				kg	-			-									
		Shipping Weight				kg	-			-									
		Net Dimensions (WxHxD)				mm	-			-									
		Shipping Dimensions (WxHxD)				mm	-			-									
	Additional Accessories	Drain pump	Drain pump			-	Optional / MDP-M075SGU2			Optional / MDP-M075SGU2									
			Max. Lifting Height / Displacement	mm / liter/h	750 / 24			750 / 24											
		Air Filter				-	Long life filter			Long life filter									
Power Supply				Ø, #, V, Hz	1, 2, 220~240, 50			3, 4, 380~415, 50											
Compressor	Type				-	Twin BLDC Rotary			Twin BLDC Rotary										
	Model				-	UG5T450FUFJX			UG5T450FUFJX										
	Oil	Type			-	POE			POE										
		Initial Charge			cc	1,750			1,750										
Fan	Air Flow Rate	Cooling / Heating			CMM	90.5 / 90.5			90.5 / 90.5										
Outdoor Unit	Sound	Sound Pressure ^{*3)}	Cooling / Heating			CFM	3,196 / 3,196			3,196 / 3,196									
						dB(A)	52 / 54			52 / 54									
	External Dimension	Net Weight				kg	88.0			91.0									
		Shipping Weight				kg	98.0			101.0									
		Net Dimensions (WxHxD)				mm	940 x 1,210 x 330			940 x 1,210 x 330									
		Shipping Dimensions (WxHxD)				mm	995 x 1,338 x 426			995 x 1,338 x 426									
	Operating Temp. Range	Cooling				°C	-15 ~ 50			-15 ~ 50									
		Heating				°C	-20 ~ 24			-20 ~ 24									

*Specifications may be subject to change without prior notice for product improvement.

*1) Nominal cooling capacities are based on;

- Indoor temperature : 27°C DB, 19°C WB / Outdoor temperature : 35°C DB, 24°C WB
- Equivalent refrigerant piping : 5m, Level differences : 0m

*2) Nominal heating capacities are based on;

- Indoor temperature : 20°C DB, 15°C WB / Outdoor temperature : 7°C DB, 6°C WB
- Equivalent refrigerant piping : 5m, Level differences : 0m

*3) Sound pressure was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

Model Name		Indoor Unit		Outdoor Unit		NS052SSXEA	NS071SSXEA	NS090SSXEA	NS100SSXEA	
						RC052SHXEA	RC071SHXEA	RC090SHXEA	RC100SHXEA	
System	Mode					-	Heat Pump	Heat Pump	Heat Pump	Heat Pump
	Capacity	Capacity (Nominal)	Cooling ⁽¹⁾	kW	1.10 / 5.00 / 5.90	1.60 / 7.00 / 8.00	2.8 / 9.0 / 10.0	2.8 / 10.0 / 11.5		
			Heating ⁽²⁾	Btu/h	3,800 / 17,100 / 20,100	5,500 / 23,900 / 27,300	9,600 / 30,700 / 34,100	9,600 / 34,100 / 39,200		
			Heating ⁽²⁾	kW	1.00 / 5.50 / 6.70	1.40 / 7.70 / 8.20	3.0 / 9.5 / 13.0	3.0 / 11.2 / 15.5		
	Power	Power Input (Nominal)	Cooling ⁽¹⁾	kW	0.39 / 1.78 / 2.05	0.55 / 2.68 / 2.92	0.82 / 3.2 / 3.6	0.82 / 3.56 / 3.8		
			Heating ⁽²⁾		0.29 / 1.66 / 2.60	0.50 / 2.40 / 2.85	0.8 / 2.78 / 5.0	0.8 / 3.72 / 5.5		
		Current Input (Nominal)	Cooling ⁽¹⁾	A	2.10 / 8.30 / 9.50	2.70 / 13.10 / 14.50	3.8 / 14.0 / 19.5	3.8 / 16 / 19.5		
			Heating ⁽²⁾		1.80 / 8.00 / 9.30	2.50 / 12.00 / 13.20	2.8 / 13.0 / 24.0	2.8 / 15 / 24		
	COP	Nominal Cooling		-	2.81	2.61	2.81	2.82		
		Nominal Heating		-	3.31	3.21	3.42	3.01		
		Energy Grade	Cooling / Heating	-	C / C	D / C	C / B	C / D		
	Option Code					-	011014-1563A2 -273438-370010	011034-15637B -274750-370010	011044-156293 -275A64-370000	011044-156293 -276470-370000
	Piping Connections	Liquid Pipe		Ø, mm(inch)	6.35 (1/4)	6.35 (1/4)	9.52 (3/8)	9.52 (3/8)		
		Gas Pipe		Ø, mm(inch)	12.7 (1/2)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)		
		Installation Limitation	Max. Length	m	30.0	30.0	50.0	50.0		
	Max. Height		m	20.0	20.0	30.0	30.0			
Refrigerant	Type		-	R410A	R410A	R410A	R410A			
	Control Method		-	EEV	EEV	EEV	EEV			
	Factory Charging		kg	1.30	1.35	2.50	2.50			
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		
	Fan	Type		-	Sirocco Fan / SSR	Sirocco Fan / SSR	Sirocco Fan	Sirocco Fan		
		Motor	Output	W	200	200	-	-		
			Number of Unit	EA	2	2	2	2		
		Air Flow Rate	High / Mid / Low	CMM	13 / 11.6 / 10.3	22 / 20.7 / 19.5	24.0 / 22.5 / 20.5	25.5 / 24.0 / 22.0		
			CFM	459 / 410 / 364	777 / 731 / 689	848 / 795 / 724	901 / 848 / 777			
	External Static Pressure	Min / Std / Max	mmAq	0 / 3 / 6	0 / 3 / 6	0 / 4 / 8	0 / 4 / 8			
			Pa	0 / 29.4 / 58.8	0 / 29.4 / 58.8	0 / 39.2 / 78.5	0 / 39.2 / 78.5			
	Drain	Drain Pipe		Ø, mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)		
	Sound	Sound Pressure ⁽³⁾	High / Mid / Low	dB(A)	37 / 35.5 / 33	38 / 36 / 34	39 / 37 / 35	40 / 36.5 / 33		
					37 / 35.5 / 33	38 / 36 / 34	39 / 37 / 35	39 / 37 / 35	40 / 36.5 / 33	
	External Dimension	Net Weight		kg	28.0	28.0	34.0	34.0		
		Shipping Weight		kg	32.0	32.0	40.0	40.0		
		Net Dimensions (WxHxD)		mm	900 x 260 x 480	900 x 260 x 480	1,150 x 260 x 480	1,150 x 260 x 480		
		Shipping Dimensions (WxHxD)		mm	1,146 x 363 x 584	1,146 x 363 x 584	1,405 x 354 x 593	1,405 x 354 x 593		
	Panel Size	Panel model		-	-	-	-	-		
		Panel Net Weight		kg	-	-	-	-		
		Shipping Weight		kg	-	-	-	-		
		Net Dimensions (WxHxD)		mm	-	-	-	-		
		Shipping Dimensions (WxHxD)		mm	-	-	-	-		
	Additional Accessories	Drain pump	Drain pump	-	Optional / MDP-M075SGU3	Optional / MDP-M075SGU3	Optional / MDP-M075SGU1	Optional / MDP-M075SGU1		
			Max. Lifting Height / Displacement	mm / liter/h	750 / 24	750 / 24	750 / 24	750 / 24		
		Air Filter		-	Long life filter	Long life filter	Long life filter	Long life filter		
	Outdoor Unit	Power Supply		Ø, #, V, Hz	-	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50	
		Compressor	Type		-	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary	
			Model		-	UG4T150FUDJQ	UG4T200FUAJ4	UG8T300FUBJU	UG8T300FUBJU	
Oil			Type	-	POE	POE	POE	POE		
		Initial Charge	cc	650	600	1,200	1,200			
Fan		Air Flow Rate	Cooling / Heating	CMM	37 / 37	42 / 42	59.0/59.0	59.0/59.0		
			CFM	1,307 / 1,307	1,483 / 1,483	2,083/2,083	2,083/2,083			
Sound		Sound Pressure ⁽³⁾	Cooling / Heating	dB(A)	49 / 49	52 / 52	52 / 53	52 / 53		
					49 / 49	52 / 52	52 / 53	52 / 53		
External Dimension		Net Weight		kg	36.0	47.0	72.0	72.0		
		Shipping Weight		kg	40.0	52.0	77.0	77.0		
		Net Dimensions (WxHxD)		mm	790 x 545 x 285	880 x 638 x 310	940 x 998 x 330	940 x 998 x 330		
		Shipping Dimensions (WxHxD)		mm	929 x 599 x 382	1,024 x 750 x 414	995 x 1,096 x 426	995 x 1,096 x 426		
Operating Temp. Range		Cooling		°C	-5 ~ 43	-5 ~ 43	-15 ~ 50	-15 ~ 50		
		Heating		°C	-15 ~ 24	-15 ~ 24	-20 ~ 24	-20 ~ 24		

*Specifications may be subject to change without prior notice for product improvement.

*1) Nominal cooling capacities are based on;

- Indoor temperature : 27°C DB, 19°C WB / Outdoor temperature : 35°C DB, 24°C WB
- Equivalent refrigerant piping : 5m, Level differences : 0m

*2) Nominal heating capacities are based on;

- Indoor temperature : 20°C DB, 15°C WB / Outdoor temperature : 7°C DB, 6°C WB
- Equivalent refrigerant piping : 5m, Level differences : 0m

*3) Sound pressure was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

5-2. Capacity tables

1) RC052DHXEA+NS052SDXEA

(1) Cooling

TC(Total Capacity, kW), SHC(Sensible Heat Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)											
		-10			21			35			46		
WB	DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	5.22	3.91	1.32	5.41	4.06	1.47	4.65	3.49	1.45	3.72	2.79	2.18
16	22	5.34	4.01	1.35	5.54	4.16	1.51	4.76	3.57	1.49	3.81	2.86	2.24
18	25	5.48	4.11	1.39	5.68	4.26	1.54	4.88	3.66	1.52	3.90	2.93	2.29
19	27	5.61	4.21	1.42	5.82	4.37	1.58	5.00	3.75	1.56	4.00	3.00	2.35
22	30	5.74	4.31	1.45	5.96	4.47	1.62	5.12	3.84	1.60	4.10	3.07	2.41
24	32	5.88	4.41	1.49	6.10	4.58	1.66	5.24	3.93	1.64	4.19	3.15	2.46

(2) Heating

TC(Total Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)							
		-15		-10		7		24	
DB		TC	PI	TC	PI	TC	PI	TC	PI
16		4.39	2.05	5.30	2.17	6.12	1.80	6.32	1.94
18		4.34	2.03	5.25	2.15	6.06	1.78	6.26	1.92
20		4.30	2.01	5.20	2.13	6.00	1.76	6.20	1.90
21		4.26	1.99	5.15	2.11	5.94	1.74	6.14	1.88
22		4.21	1.97	5.10	2.09	5.88	1.72	6.08	1.86
24		4.17	1.95	5.05	2.07	5.82	1.71	6.02	1.84

2) RC071DHXEA+NS071SDXEA

(1) Cooling

TC(Total Capacity, kW), SHC(Sensible Heat Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)														
		-15			21			35			43			50		
WB	DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	7.65	5.36	1.75	7.64	5.35	1.96	6.6	4.62	2.05	5.70	3.99	4.5	3.90	2.73	3.72
16	22	7.84	5.49	1.79	7.83	5.48	2.01	6.76	4.73	2.11	5.84	4.09	4.61	4.00	2.80	3.81
18	25	8.03	5.62	1.83	8.02	5.62	2.06	6.93	4.85	2.16	5.98	4.19	4.72	4.10	2.87	3.90
19	27	8.23	5.76	1.88	8.22	5.75	2.11	7.10	4.97	2.21	6.13	4.29	4.84	4.20	2.94	4.00
22	30	8.43	5.90	1.93	8.42	5.89	2.16	7.27	5.09	2.26	6.28	4.39	4.96	4.30	3.01	4.10
24	32	8.63	6.04	1.97	8.62	6.03	2.21	7.44	5.21	2.32	6.43	4.50	5.08	4.40	3.08	4.19

(2) Heating

TC(Total Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)							
		-20		-10		7		24	
DB		TC	PI	TC	PI	TC	PI	TC	PI
16		5.77	2.85	6.9	2.62	8.16	2.26	8.63	2.33
18		5.72	2.82	6.83	2.60	8.08	2.24	8.54	2.30
20		5.66	2.79	6.76	2.57	8.00	2.22	8.46	2.28
21		5.60	2.76	6.69	2.54	7.92	2.20	8.38	2.26
22		5.55	2.73	6.63	2.52	7.84	2.18	8.29	2.23
24		5.49	2.71	6.56	2.49	7.76	2.15	8.21	2.21

☒ **Note**

- ◆ Ratings shown are net capacities.
- ◆ Capacities are based on following conditions;
 - Equivalent refrigerant piping length : 5m / Level difference : 0m.

3) RC090DHXEA+NS090SDXEA

(1) Cooling

TC(Total Capacity, kW), SHC(Sensible Heat Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)														
		-15			21			35			43			50		
WB	DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	9.48	6.64	1.95	9.11	6.38	2.09	8.37	5.86	2.60	8.51	5.95	3.69	5.75	4.02	2.83
16	22	9.72	6.80	2.00	9.34	6.53	2.14	8.57	6.00	2.67	8.72	6.10	3.78	5.89	4.12	2.90
18	25	9.96	6.97	2.05	9.56	6.70	2.20	8.78	6.15	2.73	8.93	6.25	3.87	6.03	4.22	2.98
19	27	10.20	7.14	2.10	9.80	6.86	2.25	9.00	6.30	2.80	9.15	6.41	3.97	6.18	4.33	3.05
22	30	10.44	7.31	2.15	10.04	7.02	2.30	9.22	6.45	2.87	9.37	6.56	4.07	6.33	4.43	3.12
24	32	10.70	7.49	2.20	10.28	7.19	2.36	9.44	6.61	2.94	9.59	6.72	4.16	6.48	4.54	3.20

(2) Heating

TC(Total Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)							
		-20		-10		7		24	
DB		TC	PI	TC	PI	TC	PI	TC	PI
16		6.67	3.20	9.95	4.33	10.20	2.83	12.51	3.33
18		6.61	3.17	9.85	4.28	10.10	2.80	12.38	3.30
20		6.54	3.14	9.75	4.24	10.00	2.77	12.26	3.27
21		6.47	3.11	9.65	4.20	9.90	2.74	12.14	3.24
22		6.41	3.08	9.56	4.16	9.80	2.71	12.02	3.20
24		6.35	3.05	9.46	4.11	9.70	2.69	11.90	3.17

4) RC100DHXEA+NS100SDXEA / RC100DHXGA+NS100SDXEA

(1) Cooling

TC(Total Capacity, kW), SHC(Sensible Heat Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)														
		-15			21			35			43			50		
WB	DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	10.60	7.42	2.70	10.41	7.29	2.79	9.30	6.51	2.90	9.30	6.51	4.18	6.32	4.43	3.53
16	22	10.86	7.60	2.76	10.67	7.47	2.86	9.53	6.67	2.97	9.53	6.67	4.29	6.48	4.53	3.62
18	25	11.13	7.79	2.83	10.93	7.65	2.93	9.76	6.83	3.05	9.76	6.83	4.39	6.64	4.65	3.71
19	27	11.40	7.98	2.90	11.20	7.84	3.00	10.00	7.00	3.12	10.00	7.00	4.50	6.80	4.76	3.80
22	30	11.67	8.17	2.97	11.47	8.03	3.07	10.24	7.17	3.19	10.24	7.17	4.61	6.96	4.87	3.89
24	32	11.95	8.37	3.04	11.74	8.22	3.15	10.49	7.34	3.27	10.49	7.34	4.72	7.13	4.99	3.98

(2) Heating

TC(Total Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)							
		-20		-10		7		24	
DB		TC	PI	TC	PI	TC	PI	TC	PI
16		7.34	3.06	11.02	3.98	11.43	3.16	14.08	3.77
18		7.27	3.03	10.91	3.94	11.31	3.13	13.94	3.74
20		7.20	3.00	10.80	3.90	11.20	3.10	13.80	3.70
21		7.13	2.97	10.69	3.86	11.09	3.07	13.66	3.66
22		7.06	2.94	10.59	3.82	10.98	3.04	13.53	3.63
24		6.99	2.91	10.48	3.78	10.87	3.01	13.39	3.59

Note

- ◆ Ratings shown are net capacities.
- ◆ Capacities are based on following conditions;
 - Equivalent refrigerant piping length : 5m / Level difference : 0m.

5-2. Capacity tables

5) RC125DHXEBA+NS100SDXEA / RC125DHXGA+NS125SDXEA

(1) Cooling

TC(Total Capacity, kW), SHC(Sensible Heat Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)														
		-15			21			35			43			50		
WB	DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	14.69	10.28	3.35	13.95	9.76	4.18	11.62	8.13	3.62	9.39	6.57	4.00	6.69	4.69	3.53
16	22	15.05	10.54	3.43	14.29	10.00	4.29	11.91	8.34	3.71	9.62	6.73	4.10	6.86	4.80	3.62
18	25	15.42	10.79	3.51	14.64	10.25	4.39	12.20	8.54	3.80	9.86	6.90	4.20	7.03	4.92	3.71
19	27	15.80	11.06	3.60	15.00	10.50	4.50	12.50	8.75	3.89	10.10	7.07	4.30	7.20	5.04	3.80
22	30	16.18	11.33	3.69	15.36	10.75	4.61	12.80	8.96	3.98	10.34	7.24	4.40	7.37	5.16	3.89
24	32	16.57	11.60	3.77	15.73	11.01	4.72	13.11	9.18	4.08	10.59	7.41	4.51	7.55	5.28	3.98

(2) Heating

TC(Total Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)							
		-20		-10		7		24	
DB		TC	PI	TC	PI	TC	PI	TC	PI
16		9.59	4.79	13.06	5.10	14.28	3.96	16.32	4.08
18		9.49	4.75	12.93	5.05	14.14	3.92	16.16	4.04
20		9.40	4.70	12.80	5.00	14.00	3.88	16.00	4.00
21		9.31	4.65	12.67	4.95	13.86	3.84	15.84	3.96
22		9.21	4.61	12.55	4.9	13.72	3.80	15.68	3.92
24		9.12	4.56	12.42	4.85	13.58	3.76	15.52	3.88

6) RC140DHXEBA+NS140SDXEA / RC140DHXGA+NS140SDXEA

(1) Cooling

TC(Total Capacity, kW), SHC(Sensible Heat Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)														
		-15			21			35			43			50		
WB	DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	15.46	10.82	3.52	14.22	9.96	4.28	13.02	9.11	4.32	9.51	6.66	4.04	6.90	4.83	3.62
16	22	15.84	11.09	3.61	14.57	10.20	4.38	13.34	9.34	4.43	9.74	6.82	4.14	7.07	4.95	3.71
18	25	16.23	11.36	3.70	14.93	10.45	4.49	13.66	9.56	4.54	9.98	6.99	4.25	7.24	5.07	3.80
19	27	16.63	11.64	3.79	15.30	10.71	4.60	14.00	9.80	4.65	10.23	7.16	4.35	7.42	5.19	3.90
22	30	17.03	11.92	3.88	15.67	10.97	4.71	14.34	10.04	4.76	10.48	7.33	4.45	7.60	5.32	3.99
24	32	17.44	12.21	3.97	16.04	11.23	4.82	14.68	10.28	4.88	10.73	7.51	4.56	7.78	5.45	4.08

(2) Heating

TC(Total Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)							
		-20		-10		7		24	
DB		TC	PI	TC	PI	TC	PI	TC	PI
16		9.78	4.94	13.63	5.63	16.32	4.52	18.80	4.43
18		9.69	4.89	13.49	5.58	16.16	4.47	18.61	4.38
20		9.59	4.84	13.36	5.52	16.00	4.43	18.43	4.34
21		9.49	4.79	13.23	5.46	15.84	4.39	18.25	4.30
22		9.40	4.74	13.09	5.41	15.68	4.34	18.06	4.25
24		9.31	4.70	12.96	5.36	15.52	4.30	17.88	4.21

☒ **Note**

- ◆ Ratings shown are net capacities.
- ◆ Capacities are based on following conditions;
 - Equivalent refrigerant piping length : 5m / Level difference : 0m.

7) RC052SHXEA+NS052SSXEA

(1) Cooling

TC(Total Capacity, kW), SHC(Sensible Heat Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)											
		-10			21			35			46		
WB	DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	4.77	3.58	1.20	4.97	3.73	1.24	4.65	3.49	1.54	3.73	2.80	1.52
16	22	4.89	3.67	1.23	5.10	3.82	1.27	4.76	3.57	1.58	3.82	2.86	1.55
18	25	5.01	3.76	1.26	5.22	3.92	1.30	4.88	3.66	1.62	3.91	2.94	1.59
19	27	5.13	3.85	1.29	5.35	4.01	1.33	5.00	3.75	1.66	4.01	3.01	1.63
22	30	5.25	3.94	1.32	5.48	4.11	1.36	5.12	3.84	1.70	4.11	3.08	1.67
24	32	5.38	4.03	1.35	5.61	4.21	1.39	5.24	3.93	1.74	4.20	3.15	1.71

(2) Heating

TC(Total Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)							
		-15		-10		7		24	
DB		TC	PI	TC	PI	TC	PI	TC	PI
16		4.55	2.02	5.26	2.17	5.61	1.69	6.24	1.93
18		4.50	2.00	5.21	2.15	5.56	1.68	6.18	1.91
20		4.46	1.98	5.16	2.13	5.50	1.66	6.12	1.89
21		4.42	1.96	5.11	2.11	5.45	1.64	6.06	1.87
22		4.37	1.94	5.06	2.09	5.39	1.63	6.00	1.85
24		4.33	1.92	5.01	2.07	5.34	1.61	5.94	1.83

8) RC071SHXEA+NS071SSXEA

(1) Cooling

TC(Total Capacity, kW), SHC(Sensible Heat Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)											
		-10			21			35			46		
WB	DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	7.14	5.36	1.88	6.81	5.11	2.01	6.51	4.88	2.49	5.81	4.36	3.03
16	22	7.32	5.49	1.92	6.98	5.24	2.06	6.67	5.00	2.55	5.95	4.47	3.11
18	25	7.50	5.62	1.97	7.15	5.37	2.11	6.83	5.12	2.62	6.10	4.58	3.18
19	27	7.68	5.76	2.02	7.33	5.50	2.16	7.00	5.25	2.68	6.25	4.69	3.26
22	30	7.86	5.90	2.07	7.51	5.63	2.21	7.17	5.38	2.74	6.40	4.80	3.34
24	32	8.05	6.04	2.12	7.69	5.76	2.26	7.34	5.51	2.81	6.55	4.92	3.42

(2) Heating

TC(Total Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)							
		-15		-10		7		24	
DB		TC	PI	TC	PI	TC	PI	TC	PI
16		5.51	2.53	6.37	2.72	7.85	2.45	9.19	2.57
18		5.45	2.50	6.30	2.70	7.78	2.42	9.10	2.55
20		5.40	2.48	6.24	2.67	7.70	2.40	9.01	2.52
21		5.35	2.46	6.18	2.64	7.62	2.38	8.92	2.49
22		5.29	2.43	6.12	2.62	7.55	2.35	8.83	2.47
24		5.24	2.41	6.05	2.59	7.47	2.33	8.74	2.45

☒ Note

- ◆ Ratings shown are net capacities.
- ◆ Capacities are based on following conditions;
 - Equivalent refrigerant piping length : 5m / Level difference : 0m.

5 MSP(Middle static pressure) duct

5-2. Capacity tables

9) RC090SHXEA+NS090SSXEA

(1) Cooling

TC(Total Capacity, kW), SHC(Sensible Heat Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)														
		-15			21			35			43			50		
WB	DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	9.48	6.64	1.95	9.11	6.38	2.09	8.37	5.86	2.98	8.51	5.95	3.69	5.75	4.02	2.83
16	22	9.72	6.80	2.00	9.34	6.53	2.14	8.57	6.00	3.05	8.72	6.10	3.78	5.89	4.12	2.90
18	25	9.96	6.97	2.05	9.56	6.70	2.20	8.78	6.15	3.12	8.93	6.25	3.87	6.03	4.22	2.98
19	27	10.20	7.14	2.10	9.80	6.86	2.25	9.00	6.30	3.20	9.15	6.41	3.97	6.18	4.33	3.05
22	30	10.44	7.31	2.15	10.04	7.02	2.30	9.22	6.45	3.28	9.37	6.56	4.07	6.33	4.43	3.12
24	32	10.70	7.49	2.20	10.28	7.19	2.36	9.44	6.61	3.36	9.59	6.72	4.16	6.48	4.54	3.20

(2) Heating

TC(Total Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)							
		-20		-10		7		24	
DB		TC	PI	TC	PI	TC	PI	TC	PI
16		6.67	3.2	9.95	4.33	9.69	2.84	12.51	3.33
18		6.61	3.17	9.85	4.28	9.60	2.81	12.38	3.30
20		6.54	3.14	9.75	4.24	9.50	2.78	12.26	3.27
21		6.47	3.11	9.65	4.20	9.41	2.75	12.14	3.24
22		6.41	3.08	9.56	4.16	9.31	2.72	12.02	3.20
24		6.35	3.05	9.46	4.11	9.22	2.70	11.90	3.17

10) RC100SHXEA+NS100SSXEA

(1) Cooling

TC(Total Capacity, kW), SHC(Sensible Heat Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)														
		-15			21			35			43			50		
WB	DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	9.85	6.9	2.98	9.76	6.83	3.25	9.3	6.51	3.31	8.18	5.73	3.90	6.04	4.23	2.98
16	22	10.10	7.07	3.05	10.00	7.00	3.33	9.53	6.67	3.39	8.38	5.87	4.00	6.19	4.33	3.05
18	25	10.35	7.24	3.12	10.25	7.17	3.42	9.76	6.83	3.47	8.59	6.01	4.10	6.34	4.44	3.12
19	27	10.60	7.42	3.20	10.50	7.35	3.50	10.00	7.00	3.56	8.8	6.16	4.20	6.50	4.55	3.20
22	30	10.85	7.60	3.28	10.75	7.53	3.58	10.24	7.17	3.65	9.01	6.31	4.30	6.66	4.66	3.28
24	32	11.11	7.78	3.36	11.01	7.71	3.67	10.49	7.34	3.73	9.23	6.46	4.40	6.82	4.77	3.36

(2) Heating

TC(Total Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)							
		-20		-10		7		24	
DB		TC	PI	TC	PI	TC	PI	TC	PI
16		6.94	3.26	10.71	4.59	11.43	3.79	13.26	4.08
18		6.87	3.23	10.61	4.55	11.31	3.76	13.13	4.04
20		6.80	3.20	10.50	4.50	11.20	3.72	13.00	4.00
21		6.73	3.17	10.4	4.46	11.09	3.68	12.87	3.96
22		6.66	3.14	10.29	4.41	10.98	3.65	12.74	3.92
24		6.60	3.10	10.19	4.37	10.87	3.61	12.61	3.88

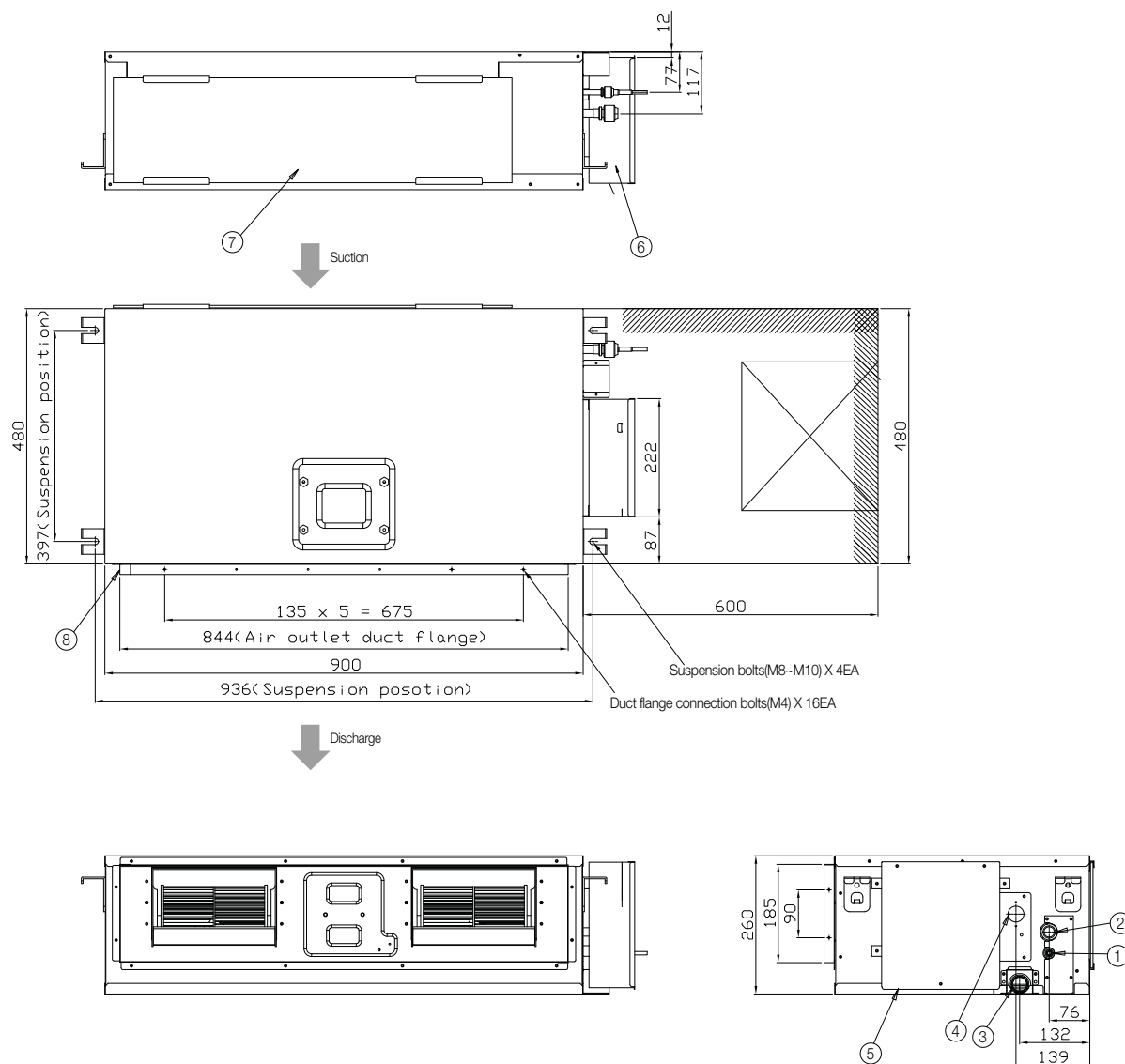
✓ Note

- ◆ Ratings shown are net capacities.
- ◆ Capacities are based on following conditions;
 - Equivalent refrigerant piping length : 5m / Level difference : 0m.

5-3. Dimensional drawing

1) NS052SDXEA, NS052/071SSXEA

Unit:mm



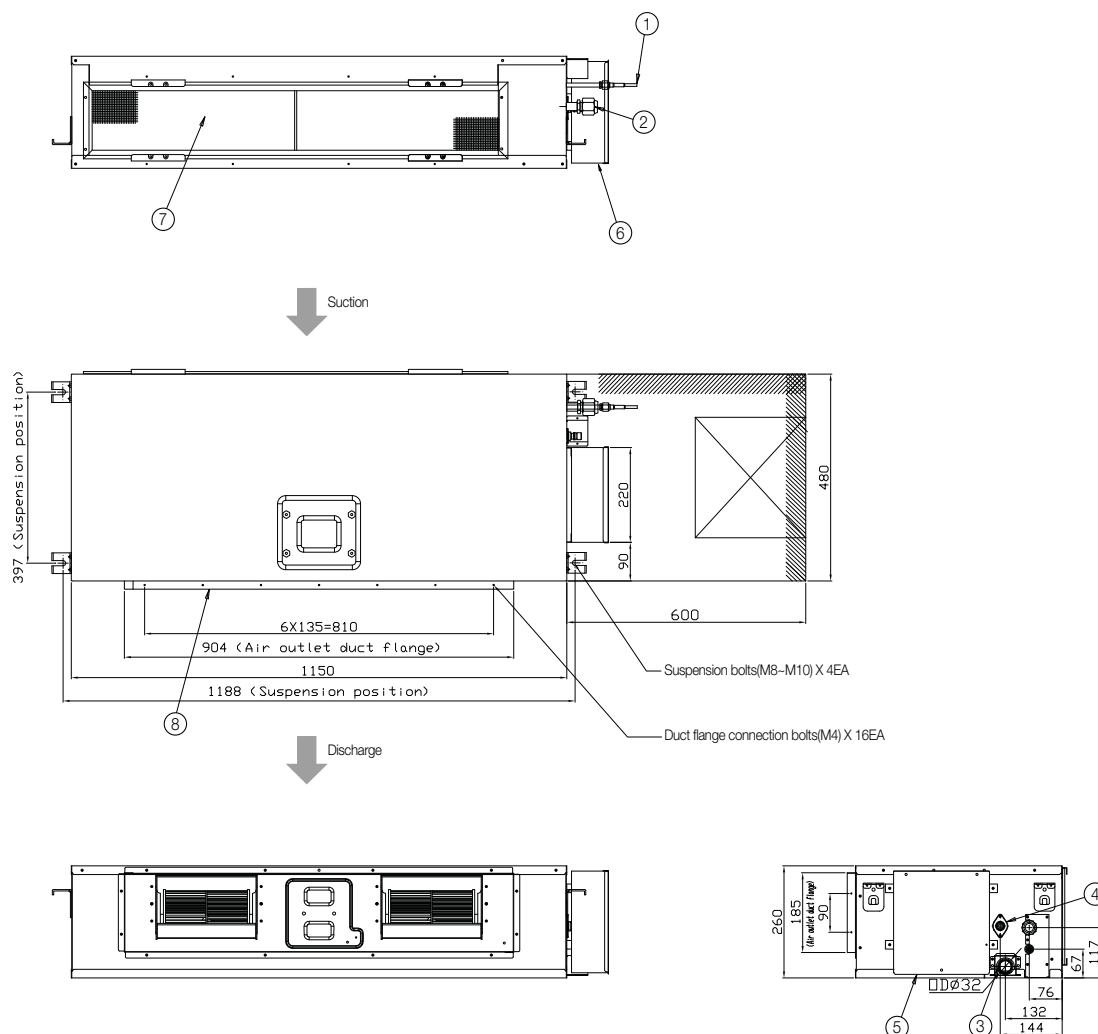
No.	Name	Description	
		5.0kW	7.1kW
①	Liquid pipe connection	Ø6.35mm (1/4") Flare	
②	Gas pipe connection	Ø12.70mm (1/2") Flare	Ø15.88mm (5/8") Flare
③	Drain pipe connection without optional drain pump kits	VP25 (OD32, ID25)	
④	Drain pipe connection with optional drain pump kits	-	
⑤	Control unit	-	
⑥	Conduit for power supply & communication wiring	-	
⑦	Return air side	-	
⑧	Air outlet duct flange	-	

5 MSP(Middle static pressure) duct

5-3. Dimensional drawing

2) NS071SDXEA, NS090/100SSXEA

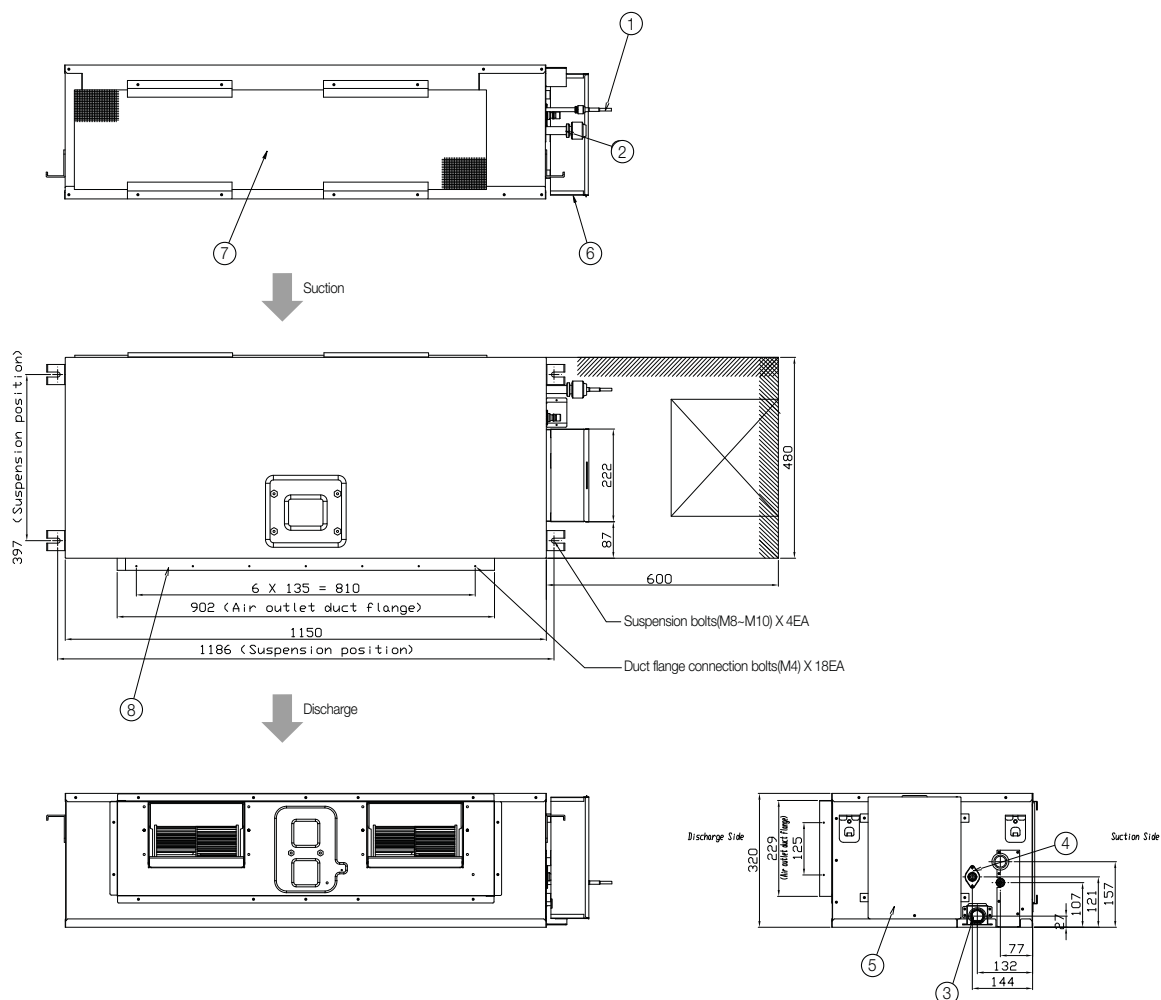
Unit:mm



No.	Name	Description	
		7.1kW	9.0/10.0kW
①	Liquid pipe connection	Ø6.35mm (1/4") Flare	Ø9.52mm (3/8") Flare
②	Gas pipe connection	Ø15.88mm (5/8") Flare	
③	Drain pipe connection without optional drain pump kits	VP25 (OD32, ID25)	
④	Drain pipe connection with optional drain pump kits	-	
⑤	Control unit	-	
⑥	Conduit for power supply & communication wiring	-	
⑦	Return air side	-	
⑧	Air outlet duct flange	-	

3) NS090SDXEA

Unit:mm



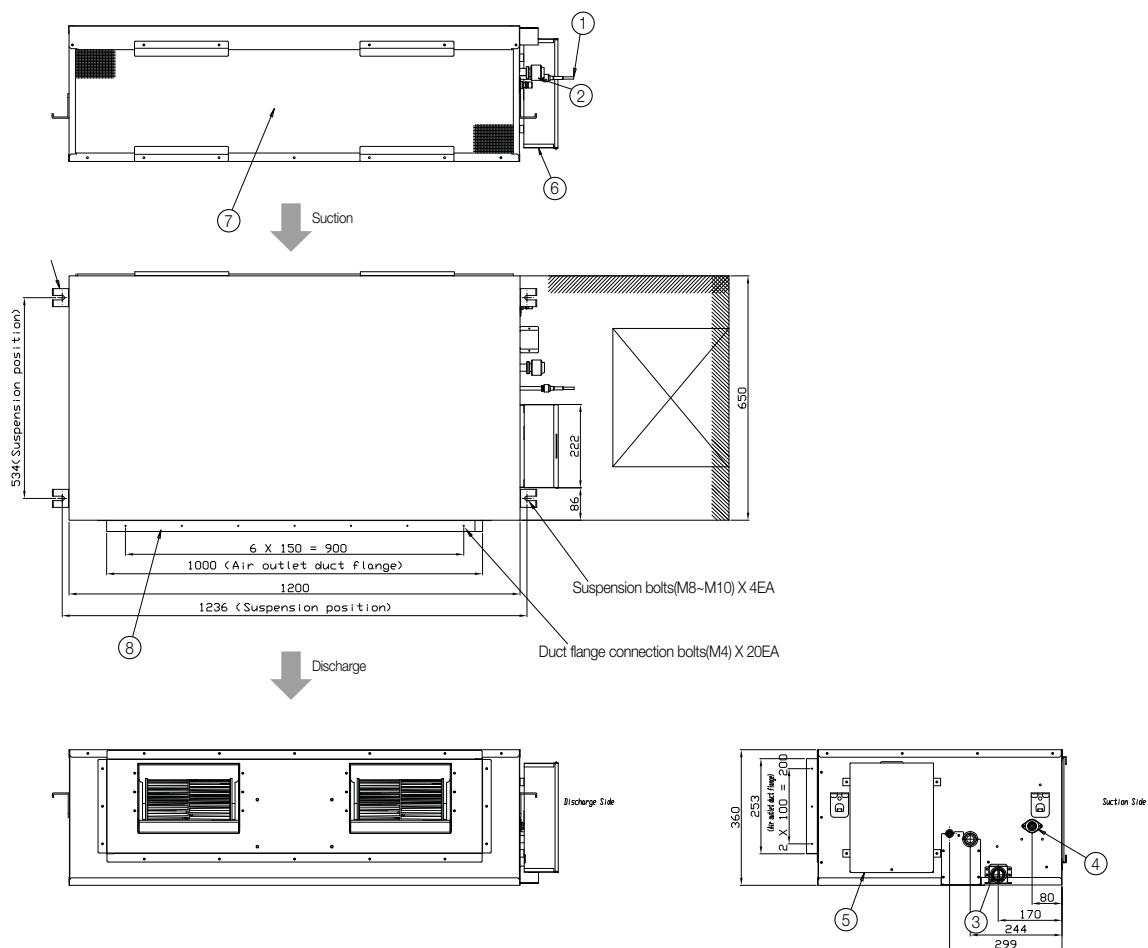
No.	Name	Description
		9.0kW
①	Liquid pipe connection	Ø9.52mm (3/8") Flare
②	Gas pipe connection	Ø15.88mm (5/8") Flare
③	Drain pipe connection without optional drain pump kits	VP25 (OD32, ID25)
④	Drain pipe connection with optional drain pump kits	-
⑤	Control unit	-
⑥	Conduit for power supply & communication wiring	-
⑦	Return air side	-
⑧	Air outlet duct flange	-

5

5-3. Dimensional drawing

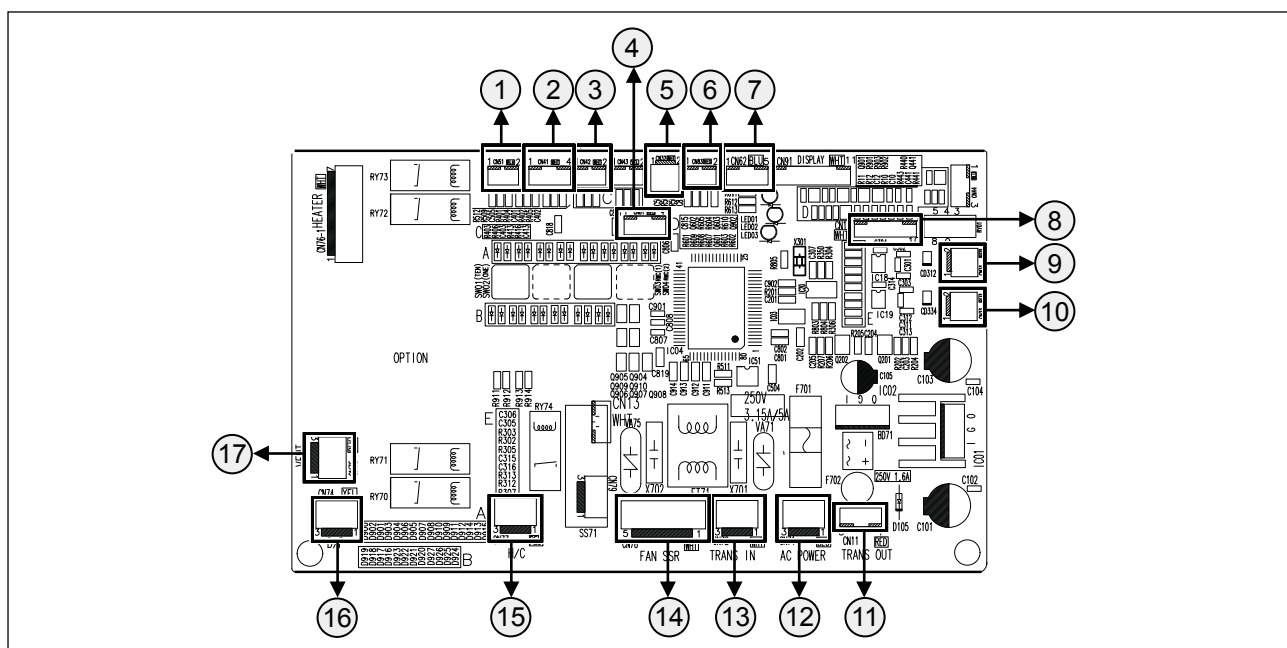
4) NS100/125/140SDXEA

Unit:mm



No.	Name	Description
		10.0/12.5/14.0kW
①	Liquid pipe connection	Ø9.52mm (3/8") Flare
②	Gas pipe connection	Ø15.88mm (5/8") Flare
③	Drain pipe connection without optional drain pump kits	VP25 (OD32, ID25)
④	Drain pipe connection with optional drain pump kits	-
⑤	Control unit	-
⑥	Conduit for power supply & communication wiring	-
⑦	Return air side	-
⑧	Air outlet duct flange	-

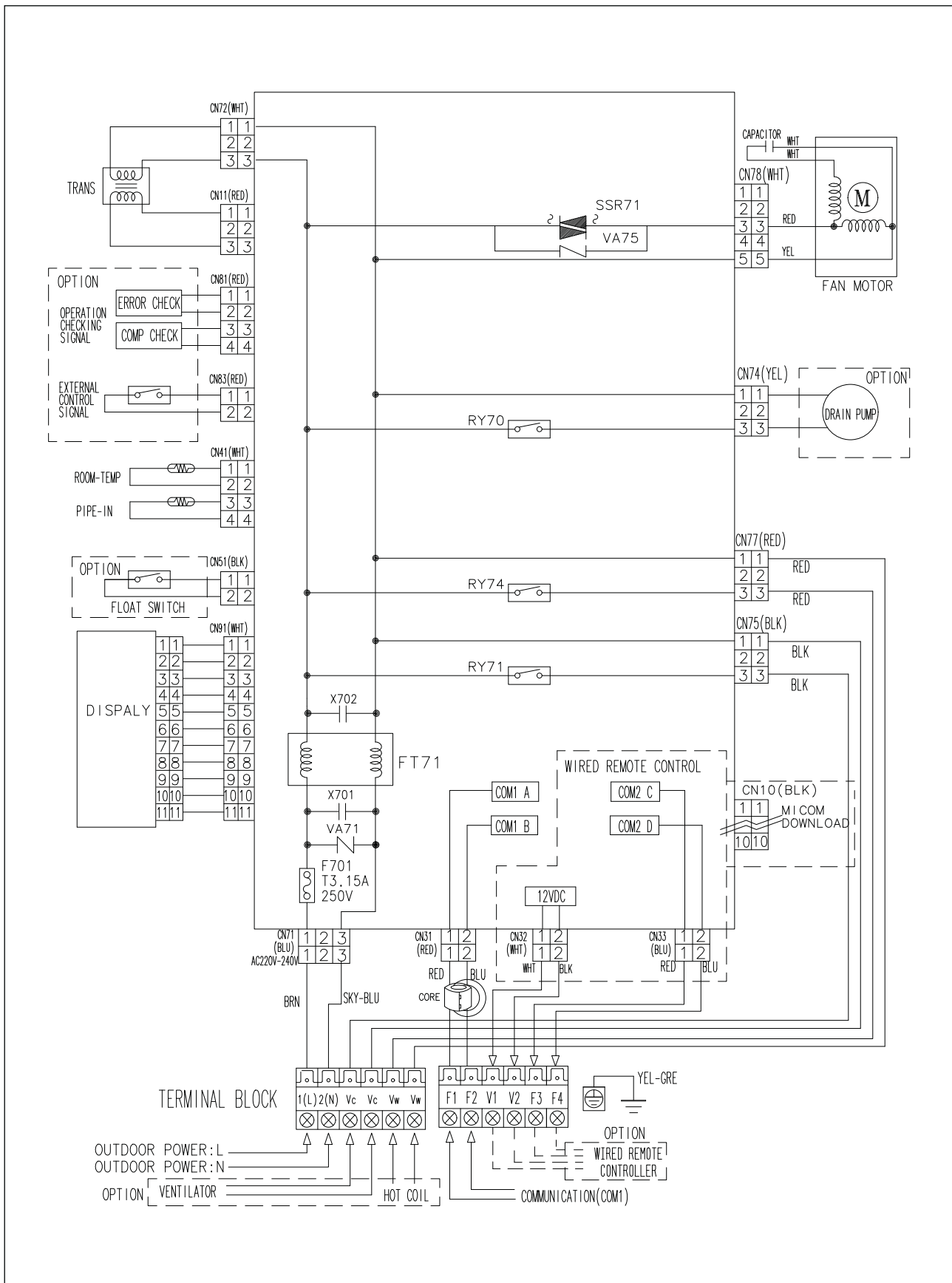
5-4. PCB connector lay-out



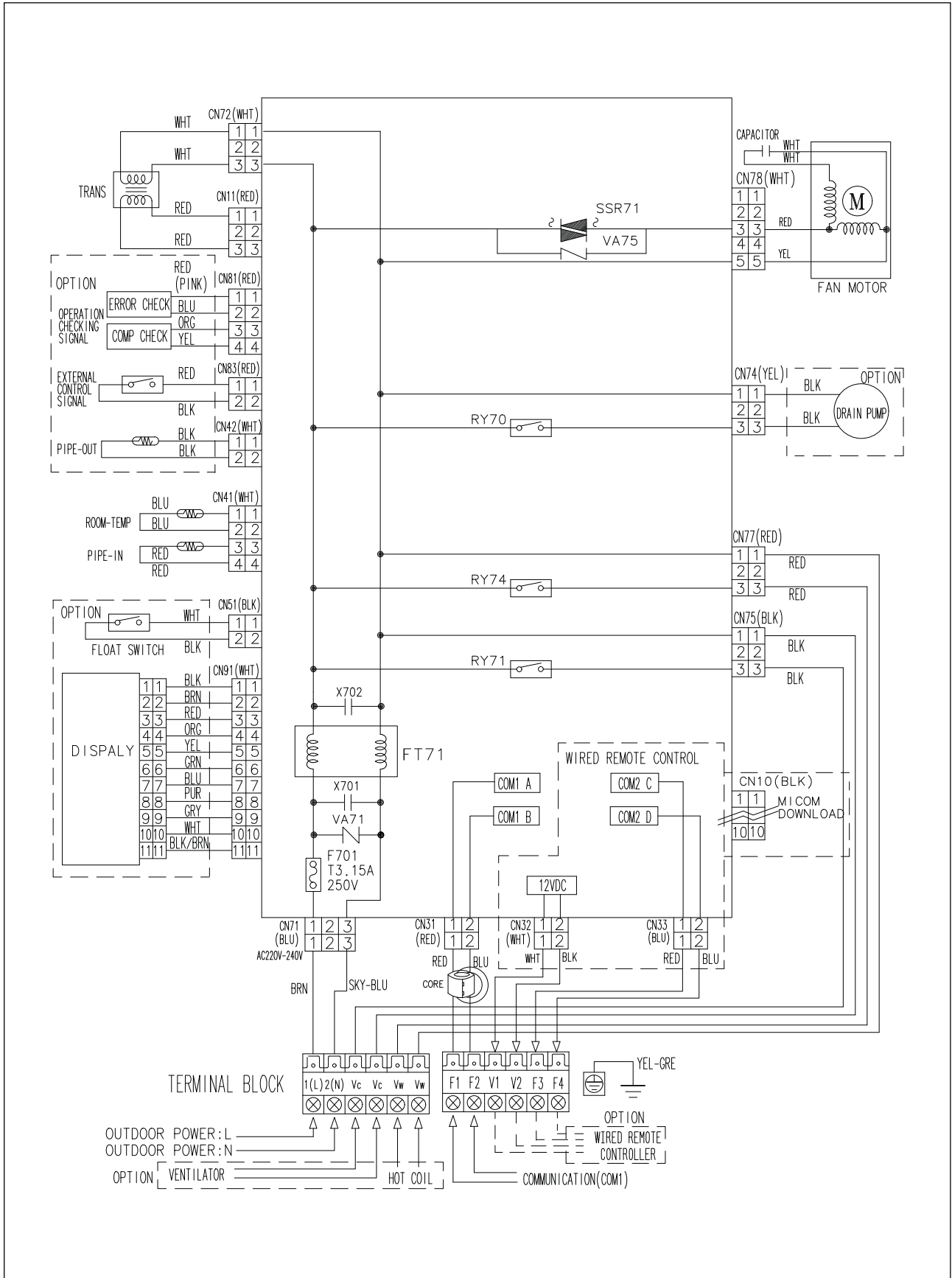
No.	CN #	Color	Function
①	CN51	Black	Float Switch
②	CN41	White	Indoor Room & Eva In Temp. Sensor
③	CN42	White	Eva Out Temp. Sensor
④	CN81	Red	External Control (Error Check, Indoor Unit Operation)
⑤	CN32	White	DC 12V for Wired Remote Controller
⑥	CN83	Red	External Contact Control
⑦	CN91	White	Display
⑧	CN10	White	Micom Download
⑨	CN31	Red	Communication 1 – F1, F2 (IDU~ODU)
⑩	CN33	Blue	COM2 Communication – F3, F4 (for Wired Remote Controller)
⑪	CN11	Red	Trans-Out
⑫	CN71	Blue	AC Power
⑬	CN72	White	Trans-In
⑭	CN78	White	Fan (SSR)
⑮	CN77	Red	Hot Water Coil
⑯	CN74	Yellow	Drain Pump
⑰	CN75	Black	Ventilator

5-5. Electrical wiring diagram

1) NS052/071SSXEA

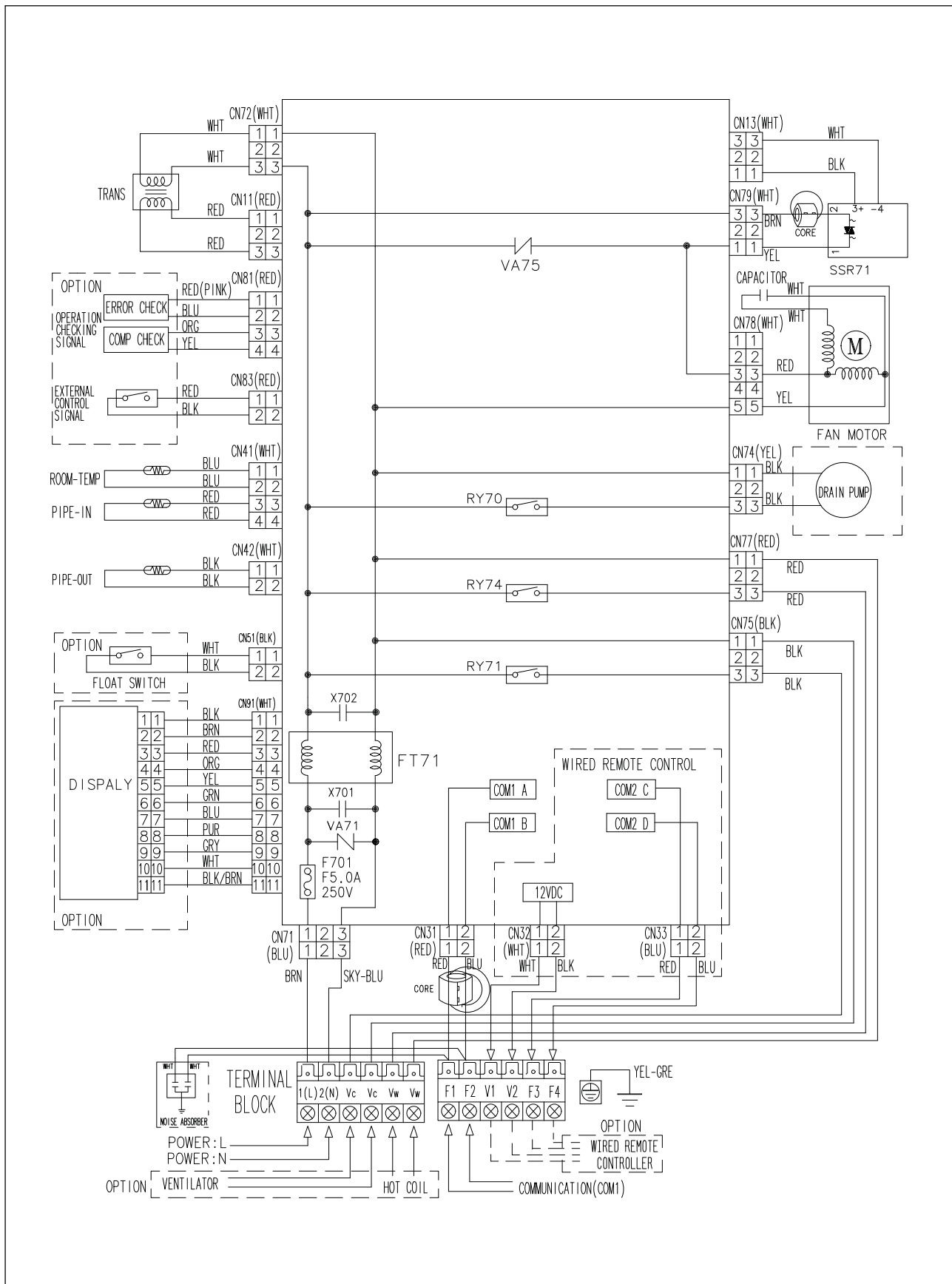


2) NS052/071SDXEA



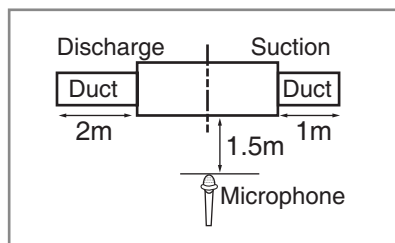
5-5. Electrical wiring diagram

3) NS090/100/125/140SDXEA, NS090/100SSXEA



5-6. Sound pressure level

1) Operation sound level



Model	Unit : dB(A)	
	High	Low
NS052SDXEA	37	33
NS071SDXEA	39	35
NS090SDXEA	39	35
NS100SDXEA	39	35
NS125SDXEA	43	38
NS140SDXEA	43	38

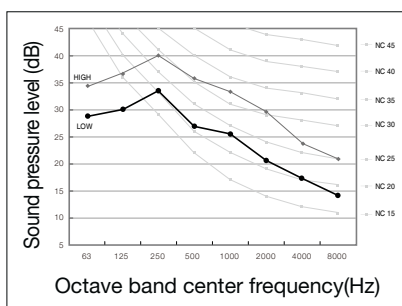
Model	Unit : dB(A)	
	High	Low
NS052SSXEA	37	33
NS071SSXEA	38	34
NS090SSXEA	39	35
NS100SSXEA	40	33

✓ Note

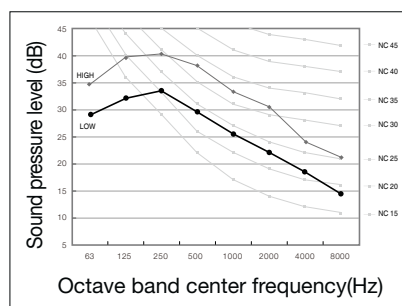
- ◆ These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- ◆ Operation sound level may differ depending on operation and ambient conditions.

2) NC curves

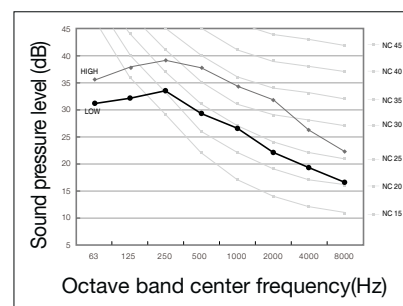
(1) NS052SDXEA, NS052SSXEA



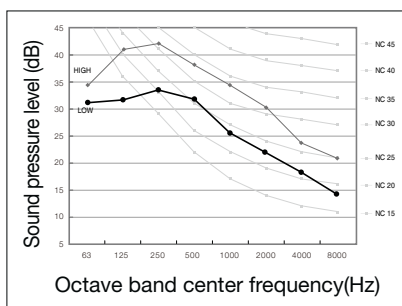
(2) NS071SDXEA, NS071SSXEA



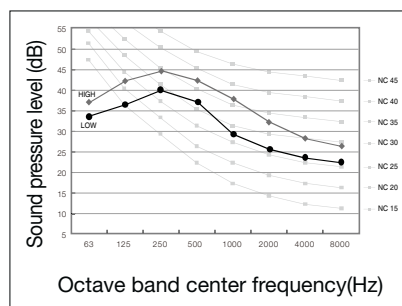
(3) NS090SDXEA, NS090SSXEA



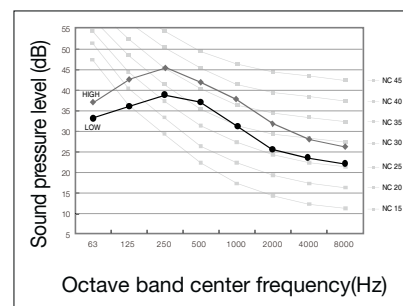
(4) NS100SDXEA, NS100SSXEA



(5) NS125SDXEA



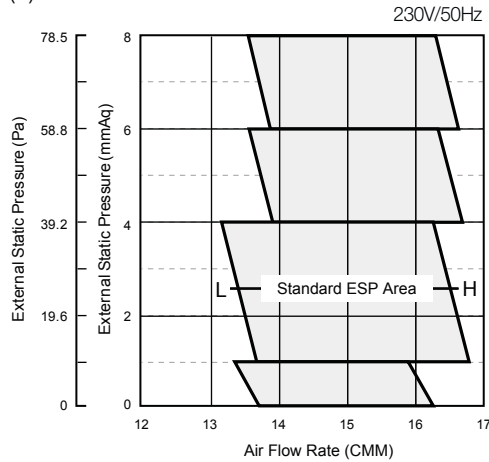
(6) NS140SDXEA



5-7. Recommended operation range

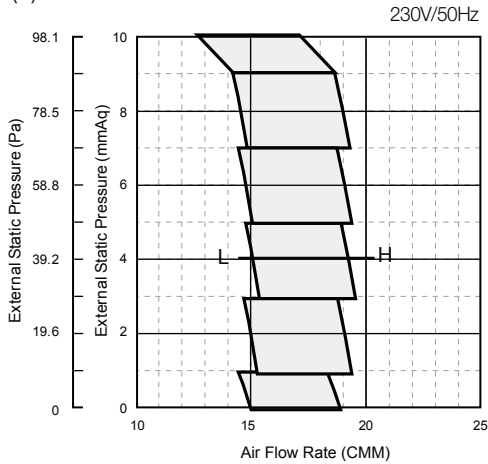
◆ Adjust option code according to the actual installation condition (external static pressure).

(1) NS052SDXEA



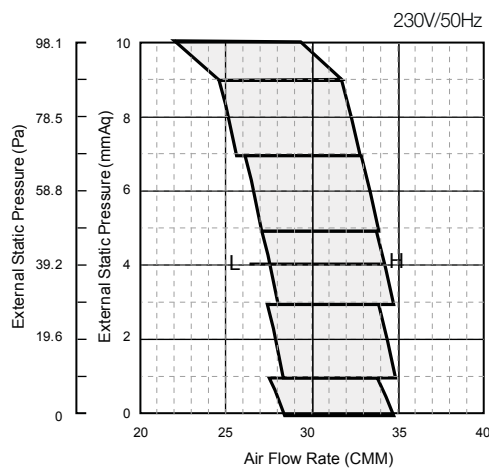
External Static pressure (mmAq)	Option code
0	011014-19625E-27343C-370010
2.5	011014-1963A2-27343C-370010
5	011034-196106-27343C-370010
8	011034-19630D-27343C-370010

(2) NS071SDXEA



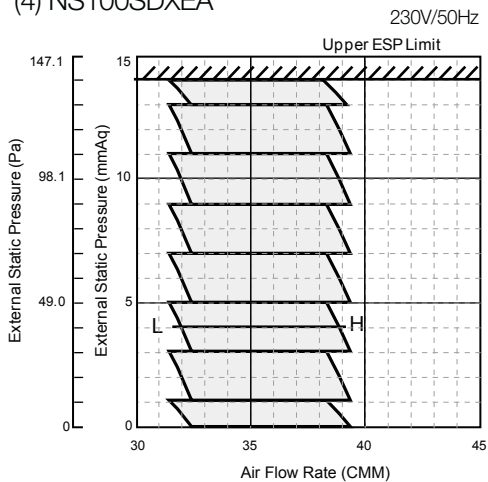
External Static pressure (mmAq)	Option code
0	011017-1563E7-274750-3700010
2	011037-15613A-274750-3700010
4	011037-11618C-274750-3700010
6	011047-116203-274750-3700010
8	011047-1162FF-274750-3700010
10	011047-1263FD-274750-3700010

(3) NS090SDXEA



External Static pressure (mmAq)	Option code
0	011044-1560D3-275A64-350000
2	011044-156265-275A64-350000
4	011044-156299-275A64-350000
6	011044-1562FA-275A64-350000
8	011044-1562FB-275A64-350000
10	011044-1562FB-275A64-350000

(4) NS100SDXEA



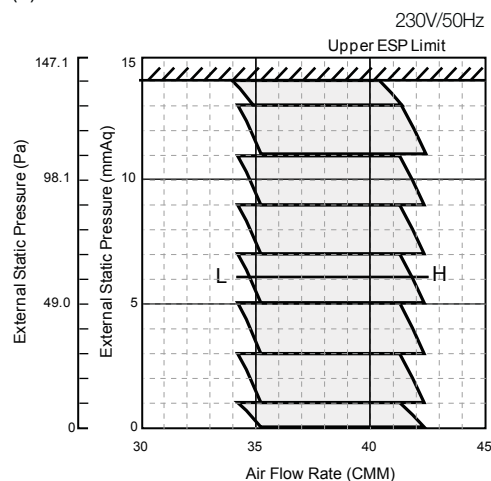
External Static pressure (mmAq)	Option code
0	011044-156083-276470-370000
2	011044-1560A4-276470-370000
4	011044-1560E8-276470-370000
6	011044-1560F8-276470-370000
8	011044-15621A-276470-370000
10	011044-15626C-276470-370000
12	011044-15629E-276470-370000
14	011044-1563C0-276470-370000

☑ **Note**

◆ ESP = External Static Pressure

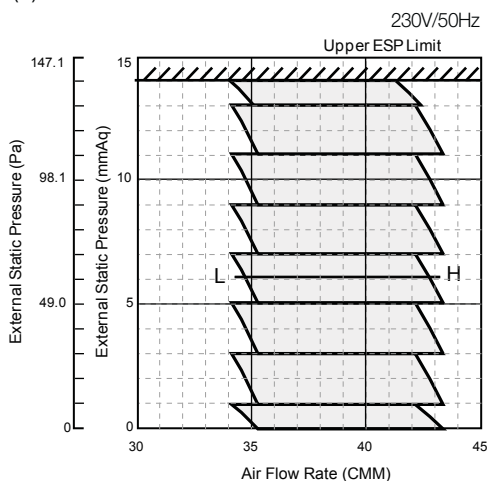
◆ The graphs display the available external static pressure range of installed indoor units. Therefore, they do not reflect the actual change of external static pressure and airflow rate according to adjusted airflow (High-Mid-Low) of installed indoor units.

(5) NS125SDXEA



External Static pressure (mmAq)	Option code
0	011044-157083-277D8C-370000
2	011044-1570A4-277D8C-370000
4	011044-1570C6-277D8C-370000
6	011044-1570F8-277D8C-370000
8	011044-15721A-277D8C-370000
10	011044-15726C-277D8C-370000
12	011044-15729E-277D8C-370000
14	011044-1573C0-277D8C-370000

(6) NS140SDXEA



External Static pressure (mmAq)	Option code
0	011044-1670A3-278CA0-370000
2	011044-1670C4-278CA0-370000
4	011044-1670E6-278CA0-370000
6	011044-167208-278CA0-370000
8	011044-16722A-278CA0-370000
10	011044-16728C-278CA0-370000
12	011044-1672FE-278CA0-370000
14	011044-1673F0-278CA0-370000

☒ **Note**

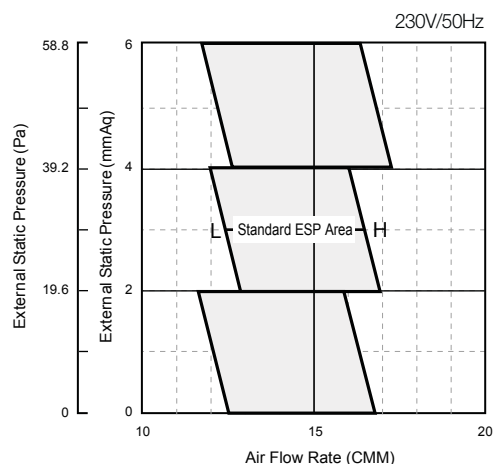
- ◆ ESP = External Static Pressure
- ◆ The graphs display the available external static pressure range of installed indoor units. Therefore, they do not reflect the actual change of external static pressure and airflow rate according to adjusted airflow (High-Mid-Low) of installed indoor units.

5 MSP(Middle static pressure) duct

5-7. Recommended operation range

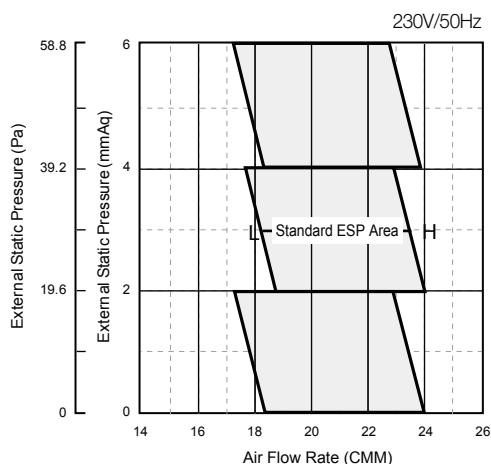
◆ Adjust option code according to the actual installation condition (external static pressure).

(7) NS052SSXEA



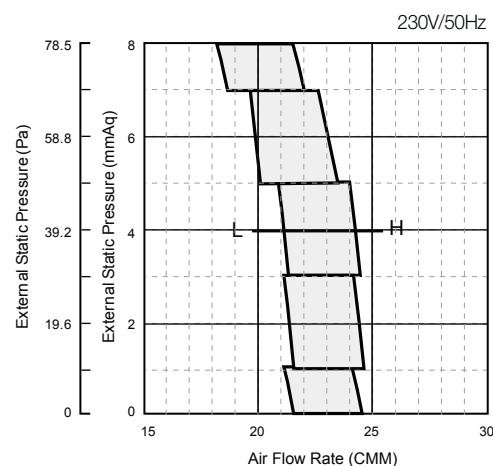
External Static pressure (mmAq)	Option code
0	011014-15624E-273438-370010
3	011014-1563A2-273438-370010
6	011034-15614A-273438-370010

(8) NS071SSXEA



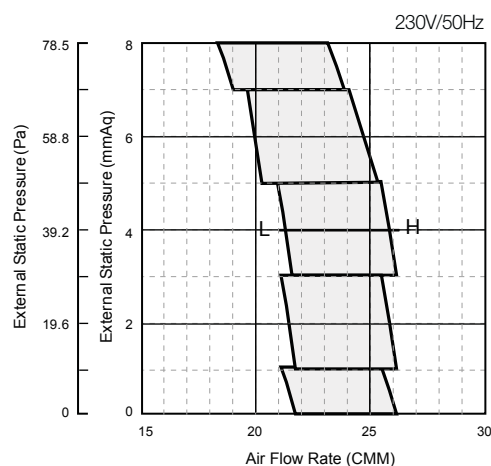
External Static pressure (mmAq)	Option code
0	011034-1561E8-274750-370010
3	011034-15637B-274750-370010
6	011044-1562E4-274750-270010

(9) NS090SSXEA



External Static pressure (mmAq)	Option code
0	011034-15613B-275A64-370000
2	011034-1561AF-275A64-370000
4	011044-156293-275A64-370000
6	011044-1562F6-275A64-370000
8	011044-1562F8-275A64-370000

(10) NS100SSXEA



External Static pressure (mmAq)	Option code
0	011034-15613B-276470-370000
2	011034-1561AF-276470-370000
4	011044-156293-276470-370000
6	011044-1562F6-276470-370000
8	011044-1562F8-276470-370000

☑ Note

◆ ESP = 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.



6 Console

6-1. Specifications.....	116
6-2. Capacity tables	117
6-3. Dimensional drawing.....	119
6-4. PCB connector lay-out.....	121
6-5. Electrical wiring diagram	123
6-6. Sound pressure level	124
6-7. Temperature and air flow distribution.....	125

6-1. Specifications

1) Technical specifications

Model Name		Indoor Unit			Outdoor Unit			JH026EAV1	JH035EAV1	JH052EAV1	
System	Mode			-	UH026EAV1			UH052EAV1			
	Capacity	Capacity (Nominal)	Cooling ^{*1)}	kW	1.0 / 2.6 / 3.5			1.0 / 3.5 / 4.2			
			(Min / Std / Max)	Btu/h	3,300 / 8,900 / 11,900			3,400 / 11,900 / 14,300			
			Heating ^{*2)}	kW	1.0 / 3.5 / 4.7			1.0 / 4.0 / 5.0			
			(Min / Std / Max)	Btu/h	3,200 / 11,900 / 16,000			3,400 / 13,600 / 17,100			
	Power	Power Input (Nominal)	Cooling ^{*1)}	kW	0.24 / 0.67 / 1.05			0.27 / 1.09 / 1.35			
			Heating ^{*2)}		0.22 / 0.97 / 1.3			0.24 / 1.11 / 1.35			
			(Min / Std / Max)	A	1.6 / 3.3 / 5			2 / 5.2 / 6.2			
			Current Input (Nominal)		Heating ^{*2)}	1.4 / 4.7 / 6.3			1.6 / 5.3 / 6.6		
	COP	Nominal Cooling		-	3.88			3.21			
		Nominal Heating		-	3.61			3.61			
		Energy Grade		Cooling / Heating	-	A / A			A / A		
Option Code				-	087777-1380B6			087777-1580D8			
Piping Connections	Liquid Pipe			Ø, mm(inch)	6.35 (1/4)			6.35 (1/4)			
	Gas Pipe			Ø, mm(inch)	9.52 (3/8)			9.52 (3/8)			
	Installation Limitation	Max. Length		m	20.0			20.0			
		Max. Height		m	15.0			15.0			
Refrigerant	Type			-	R410A			R410A			
	Control Method			-	EEV			EEV			
	Factory Charging			kg	0.95			0.95			
Power Supply				Ø, #, V, Hz	1, 2, 220~240, 50			1, 2, 220~240, 50			
Indoor Unit	Fan	Type		-	Turbo Fan			Turbo Fan			
		Motor	Output	W	35			35			
			Number of Unit	EA	1			1			
		Air Flow Rate	High / Mid / Low		CMM	8.1 / 7.0 / 6.0			9.0 / 8.0 / 7.0		
					CFM	286 / 247 / 212			318 / 283 / 247		
	External Static Pressure	Min / Std / Max		mmAq	-			-			
				Pa	-			-			
Drain	Drain Pipe			Ø, mm	ID 18Hose			ID 18Hose			
Sound	Sound Pressure ^{*3)}	High / Mid / Low		dB(A)	38 / 30.5 / 23			39 / 31.5 / 24			
External Dimension	Net Weight			kg	15			15			
	Shipping Weight			kg	19			19			
	Net Dimensions (WxHxD)			mm	720 x 620 x 199			720 x 620 x 199			
	Shipping Dimensions (WxHxD)			mm	810 x 710 x 295			810 x 710 x 295			
Panel Size	Panel model			-	-			-			
	Panel Net Weight			kg	-			-			
	Shipping Weight			kg	-			-			
	Net Dimensions (WxHxD)			mm	-			-			
	Shipping Dimensions (WxHxD)			mm	-			-			
Additional Accessories	Drain pump	Drain pump		-	-			-			
		Max. Lifting Height / Displacement		mm / liter/h	-			-			
Air Filter				-	Long life filter			Long life filter			
Power Supply				Ø, #, V, Hz	1, 2, 220~240, 50			1, 2, 220~240, 50			
Compressor	Type			-	Single BLDC Rotary			Single BLDC Rotary			
	Model			-	G4C090LUDER			G4C090LUDER			
	Oil	Type		-	POE			POE			
		Initial Charge		cc	320			320			
Fan	Air Flow Rate	Cooling / Heating		CMM	-			-			
				CFM	-			-			
Sound	Sound Pressure ^{*3)}	Cooling / Heating		dB(A)	47 / 47			47 / 47			
External Dimension	Net Weight			kg	36			32.6			
	Shipping Weight			kg	38			35.4			
	Net Dimensions (WxHxD)			mm	790 x 548 x 285			790 x 548 x 285			
	Shipping Dimensions (WxHxD)			mm	938 x 610 x 382			938 x 610 x 382			
Operating Temp. Range	Cooling			°C	-10 ~ 43			-10 ~ 43			
	Heating			°C	-15 ~ 24			-15 ~ 24			

*Specifications may be subject to change without prior notice for product improvement.

*1) Nominal cooling capacities are based on;

- Indoor temperature : 27°C DB, 19°C WB / Outdoor temperature : 35°C DB, 24°C WB
- Equivalent refrigerant piping : 5m, Level differences : 0m

*2) Nominal heating capacities are based on;

- Indoor temperature : 20°C DB, 15°C WB / Outdoor temperature : 7°C DB, 6°C WB
- Equivalent refrigerant piping : 5m, Level differences : 0m

*3) Sound pressure was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

6-2. Capacity tables

1) JH026EAV1

(1) Cooling

TC(Total Capacity, kW), SHC(Sensible Heat Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)														
		-10			-5			21			35			43		
WB	DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	2.72	2.00	0.35	2.90	2.11	0.51	3.29	2.09	0.84	2.31	1.60	0.67	2.57	2.05	1.18
16	22	2.92	2.00	0.37	3.05	2.08	0.51	3.45	2.06	0.84	2.43	1.57	0.67	2.71	2.02	1.20
18	25	3.03	2.10	0.37	3.19	2.18	0.52	3.62	2.17	0.84	2.54	1.65	0.67	2.84	2.13	1.20
19	27	3.10	2.21	0.37	3.25	2.30	0.52	3.70	2.30	0.84	2.60	1.76	0.67	2.91	2.26	1.20
22	30	3.28	2.12	0.38	3.46	2.22	0.52	3.94	2.23	0.85	2.77	1.70	0.68	3.11	2.19	1.20
24	32	3.42	2.07	0.38	3.60	2.16	0.53	4.10	2.17	0.85	2.89	1.66	0.68	3.25	2.14	1.22

(2) Heating

TC(Total Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)											
		-15		-10		-5		2		7		24	
DB		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
16		1.92	0.99	2.85	1.10	3.21	1.15	3.34	0.96	3.59	0.95	4.47	1.02
18		2.06	1.00	2.77	1.12	3.15	1.20	3.30	0.97	3.55	0.96	4.41	1.02
20		2.14	1.02	2.71	1.13	3.10	1.21	3.24	0.97	3.50	0.97	4.36	1.03
21		2.18	1.02	2.69	1.13	3.06	1.21	3.22	0.99	3.48	0.97	4.32	1.04
22		2.32	1.02	2.65	1.13	3.04	1.23	3.18	0.99	3.45	0.97	4.30	1.04
24		2.41	1.03	2.60	1.15	2.98	1.24	3.14	1.00	3.41	0.98	4.24	1.05

2) JH035EAV1

(1) Cooling

TC(Total Capacity, kW), SHC(Sensible Heat Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)														
		-10			-5			21			35			43		
WB	DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	3.32	2.49	0.68	3.49	2.59	0.78	3.85	2.75	1.09	3.11	2.15	1.09	2.71	2.24	1.27
16	22	3.56	2.49	0.71	3.67	2.55	0.78	4.03	2.70	1.09	3.27	2.12	1.09	2.86	2.21	1.29
18	25	3.71	2.61	0.71	3.84	2.68	0.80	4.23	2.85	1.09	3.42	2.23	1.09	3.00	2.32	1.29
19	27	3.79	2.75	0.71	3.91	2.82	0.80	4.33	3.02	1.09	3.50	2.37	1.09	3.07	2.47	1.29
22	30	4.02	2.64	0.73	4.17	2.72	0.80	4.61	2.92	1.11	3.73	2.29	1.10	3.28	2.39	1.29
24	32	4.18	2.57	0.73	4.33	2.65	0.81	4.79	2.85	1.11	3.89	2.24	1.10	3.43	2.34	1.31

(2) Heating

TC(Total Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)											
		-15		-10		-5		2		7		24	
DB		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
16		2.04	1.03	3.42	1.28	3.89	1.43	3.79	1.24	4.10	1.08	5.54	1.47
18		2.18	1.04	3.33	1.30	3.81	1.50	3.74	1.25	4.06	1.10	5.47	1.47
20		2.27	1.06	3.25	1.31	3.76	1.51	3.68	1.25	4.00	1.11	5.41	1.49
21		2.32	1.06	3.22	1.31	3.71	1.51	3.65	1.27	3.97	1.11	5.36	1.51
22		2.46	1.06	3.18	1.31	3.68	1.53	3.62	1.27	3.94	1.11	5.34	1.51
24		2.56	1.07	3.12	1.33	3.61	1.55	3.56	1.28	3.90	1.12	5.26	1.53

☑ Note

- ◆ Ratings shown are net capacities.
- ◆ Capacities are based on following conditions;
 - Equivalent refrigerant piping length : 5m / Level difference : 0m.

6-2. Capacity tables

3) JH052EAV1

(1) Cooling

TC(Total Capacity, kW), SHC(Sensible Heat Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)														
		-15			-10			21			35			43		
WB	DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	4.41	3.19	0.94	4.76	3.42	0.95	5.22	3.73	1.34	4.44	3.08	1.56	4.58	3.07	2.39
16	22	4.73	3.19	0.98	5.00	3.37	0.95	5.47	3.67	1.34	4.67	3.03	1.56	4.83	3.04	2.43
18	25	4.93	3.34	0.98	5.23	3.54	0.98	5.74	3.86	1.34	4.89	3.18	1.56	5.06	3.19	2.43
19	27	5.03	3.52	0.98	5.33	3.73	0.98	5.87	4.10	1.34	5.00	3.38	1.56	5.18	3.39	2.43
22	30	5.33	3.38	1.00	5.68	3.60	0.98	6.26	3.97	1.36	5.33	3.27	1.58	5.53	3.28	2.43
24	32	5.54	3.29	1.00	5.90	3.50	0.99	6.50	3.86	1.36	5.57	3.20	1.58	5.78	3.21	2.47

(2) Heating

TC(Total Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)											
		-20		-10		-5		2		7		24	
DB		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
16		3.29	2.03	5.22	2.42	5.39	2.28	5.71	2.28	5.76	1.51	4.62	1.51
18		3.53	2.06	5.09	2.46	5.29	2.39	5.65	2.30	5.68	1.53	4.56	1.51
20		3.67	2.09	4.97	2.49	5.21	2.41	5.55	2.30	5.60	1.55	4.51	1.53
21		3.75	2.09	4.93	2.49	5.15	2.41	5.51	2.34	5.57	1.55	4.47	1.55
22		3.98	2.09	4.86	2.49	5.11	2.44	5.45	2.34	5.52	1.55	4.45	1.55
24		4.14	2.12	4.77	2.53	5.00	2.48	5.38	2.36	5.45	1.56	4.39	1.57

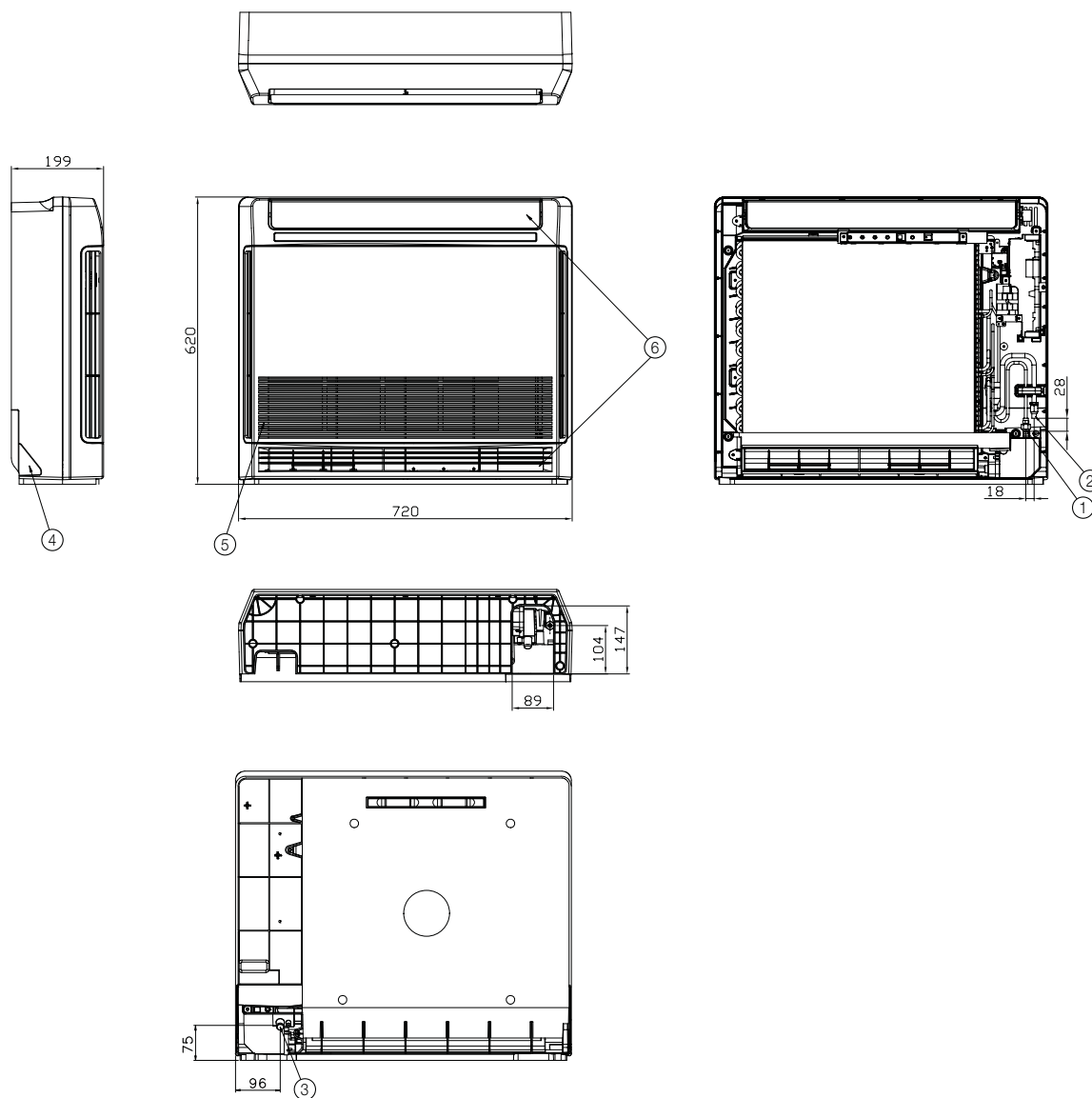
☑ Note

- ◆ Ratings shown are net capacities.
- ◆ Capacities are based on following conditions;
 - Equivalent refrigerant piping length : 5m / Level difference : 0m.

6-3. Dimensional drawing

1) JH026/035EAV1

Unit:mm



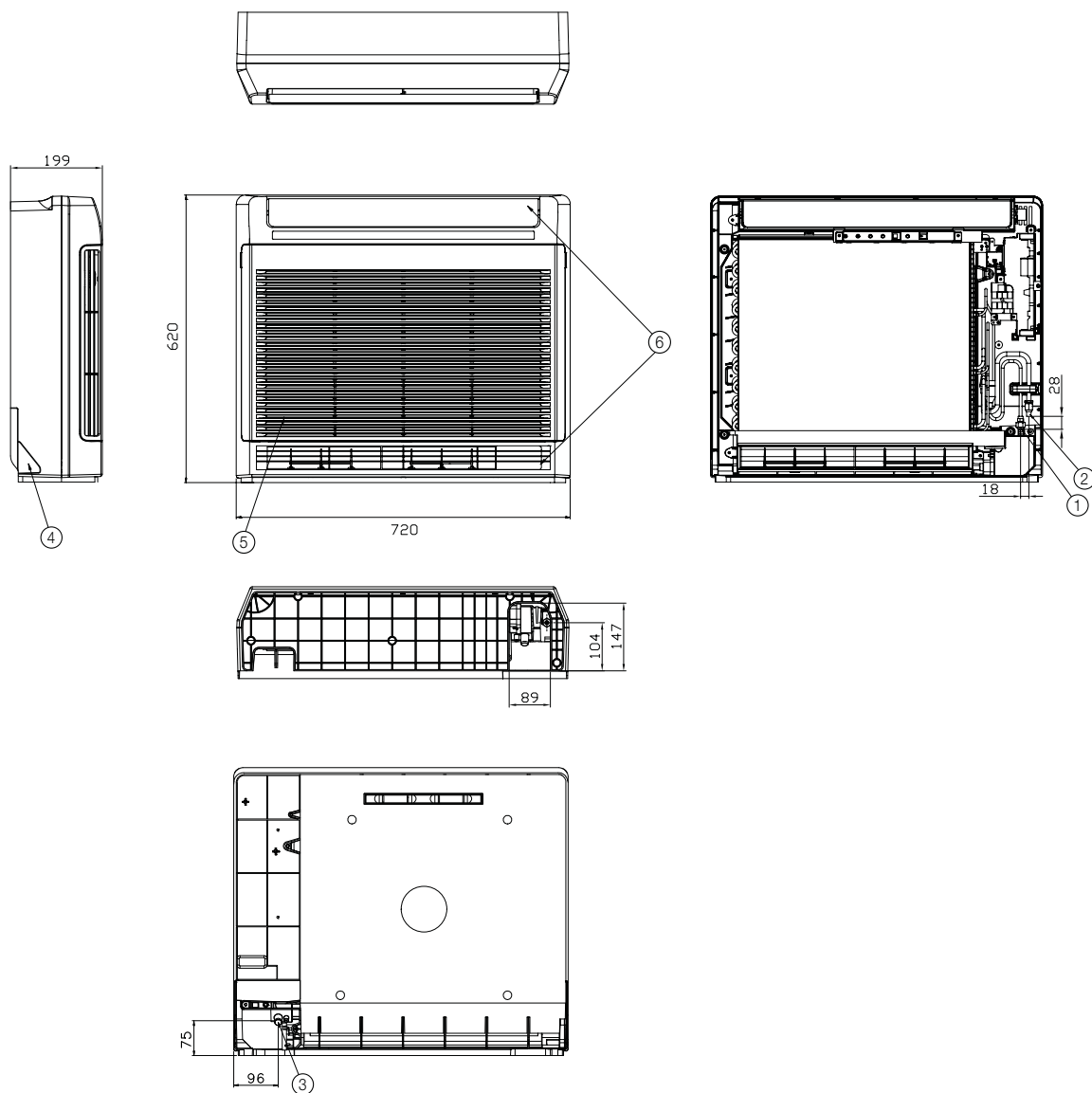
No.	Name	Description	
		2.6kW	3.5kW
①	Liquid pipe connection	Ø6.35mm (1/4") Flare	
②	Gas pipe connection	Ø9.52mm (3/8") Flare	
③	Drain pipe connection	ID18 Hose	
④	Conduit for power supply & communication wiring	-	
⑤	Air inlet grille	-	
⑥	Air outlet louver	-	

6 Console

6-3. Dimensional drawing

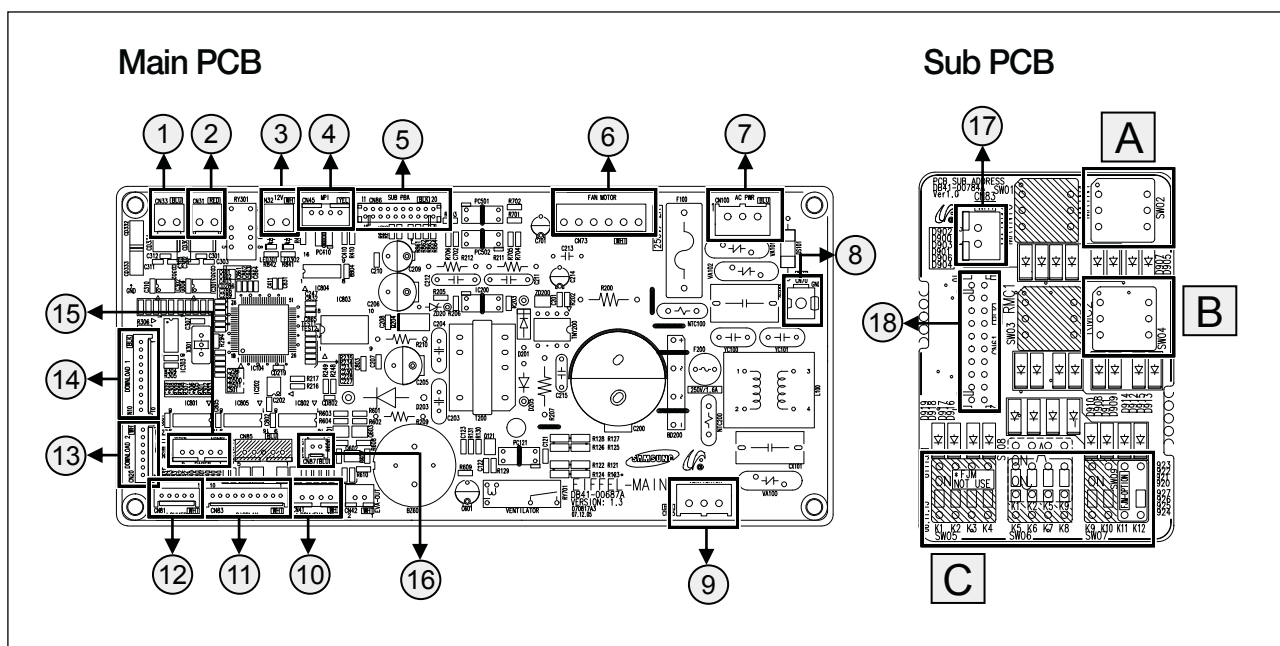
2) JH052EAV1

Unit:mm



No.	Name	Description
		5.0kW
①	Liquid pipe connection	Ø6.35mm (1/4") Flare
②	Gas pipe connection	Ø12.70mm (1/2") Flare
③	Drain pipe connection	ID18 Hose
④	Conduit for power supply & communication wiring	-
⑤	Air inlet grille	-
⑥	Air outlet louver	-

6-4. PCB connector lay-out



Main PCB

No.	CN #	Color	Function
①	CN33	Blue	Communication with Wired Remote Controller (COM2)
②	CN31	Red	Communication with Outdoor Units (COM1)
③	CN32	White	DC12V for Wired Remote Controller
④	CN45	Yellow	SPi
⑤	CN86	Black	Main-Sub PCB connector
⑥	CN73	White	Fan Motor
⑦	CN100	Blue	AC 230V Input
⑧	CN70	White	Earth
⑨	CN75	Black	Ventilator
⑩	CN41	White	Room Sensor, Eva-In Sensor
⑪	CN83	White	Main-Display PCB connector
⑫	CN81	White	Louver Motor
⑬	CN20	White	MICOM Download 2
⑭	CN10	Black	MICOM Download 1
⑮	CN82	Yellow	Damper Motor
⑯	CN87	Blue	Main-Damper PCB connector

Sub PCB

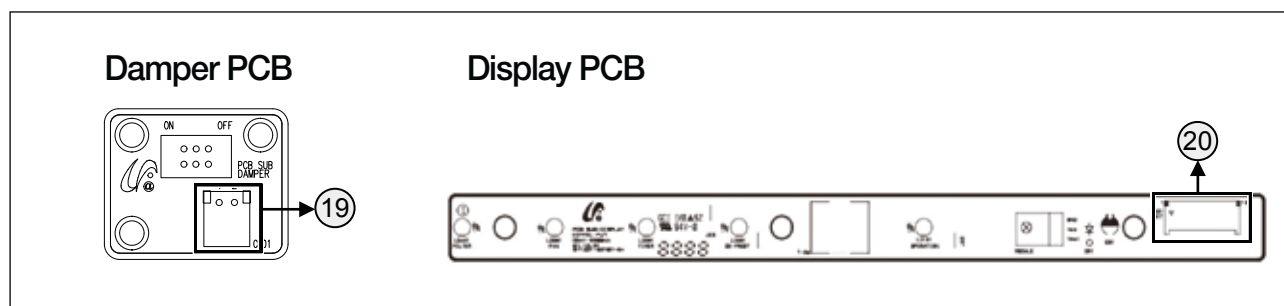
No.	CN #	Color	Function
⑰	CN61	Black	Main-Sub PCB connector
⑱	CN83	White	External Contact Control

No.	S/W	Function
A	 SW02	Main Address Setting (0~F)
B	 SW04	Group Address (RMC) For Centralized Controller (0~F)

No.	S/W	Function	On	Off
C	K1	External Room Sensor	Not Use	Use
	K2	Centralized Controller	Not Use	Use
	K3	-	-	-
	K4	-	-	-
	K5	Heating Thermo-off	+2°C	+5°C
	K6	Filter Signal Display	1,000Hrs	2,000Hrs
	K7	-	-	-
	K8	-	-	-
	K9	-	-	-
	K10	-	-	-
	K11	External Contact Control	Not Use	Use
	K12	External Control Output	Thermo On	Operation On

6 Console

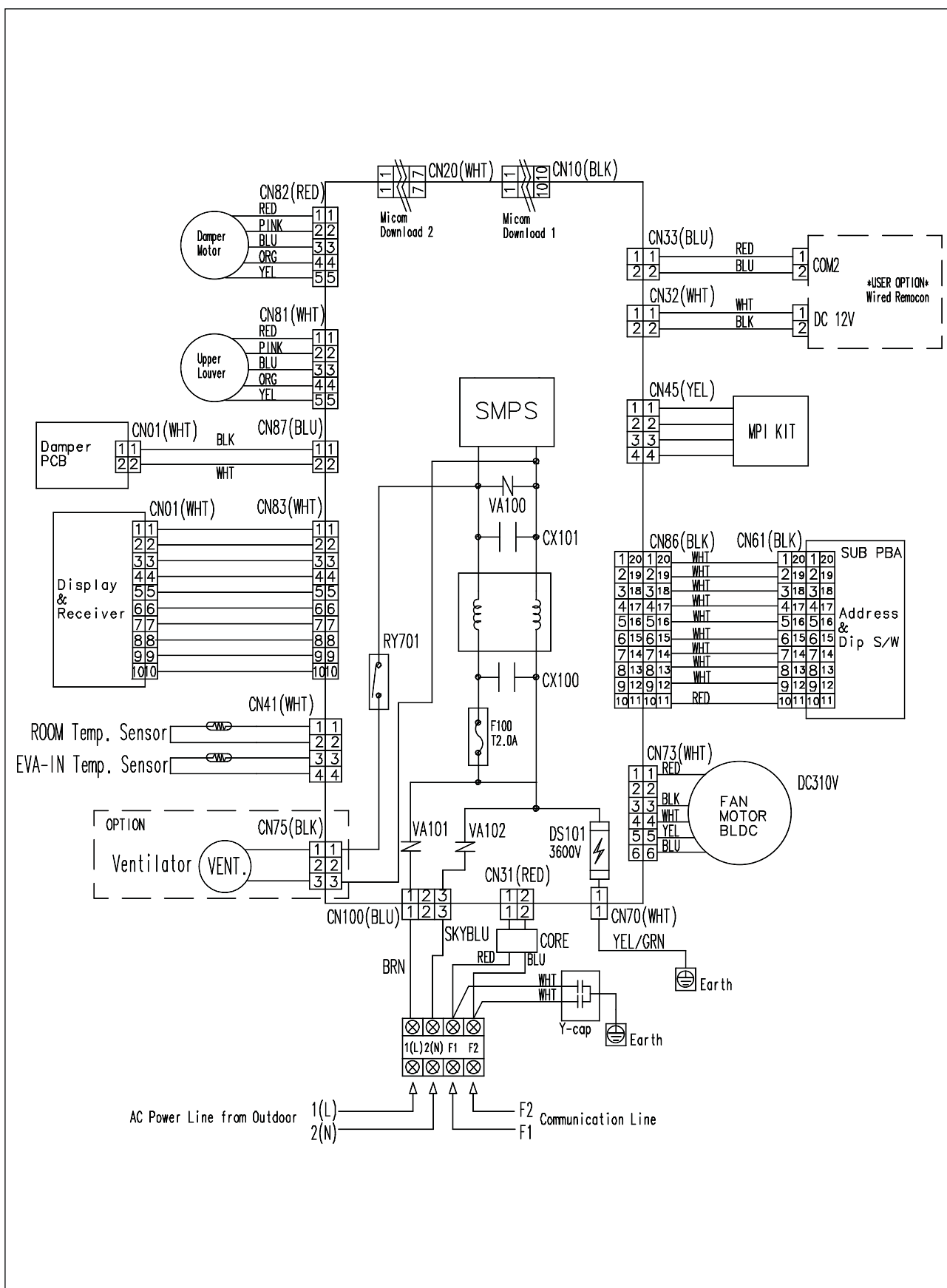
6-4. PCB connector lay-out



Damper PCB			
No.	CN #	Color	Function
①⑨	CN01	White	Damper Switch

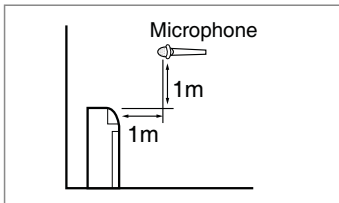
Display PCB			
No.	CN #	Color	Function
②⑩	CN01	White	Panel Display

6-5. Electrical wiring diagram



6-6. Sound pressure level

1) Operation sound level



Unit : dB(A)

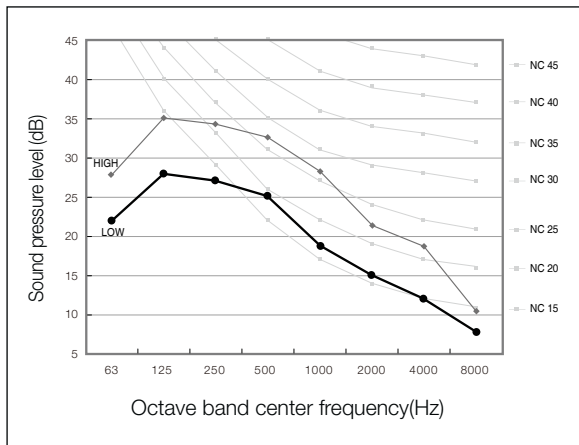
Model	High	Low
JH026EAV1	38	23
JH035EAV1	39	24
JH052EAV1	44	25

☒ Note

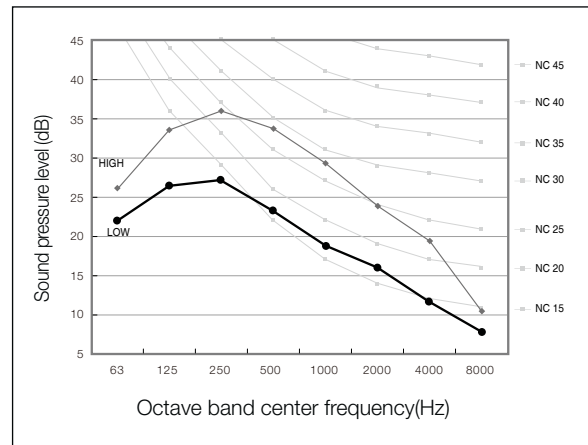
- ◆ These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- ◆ Operation sound level may differ depending on operation and ambient conditions.

2) NC curves

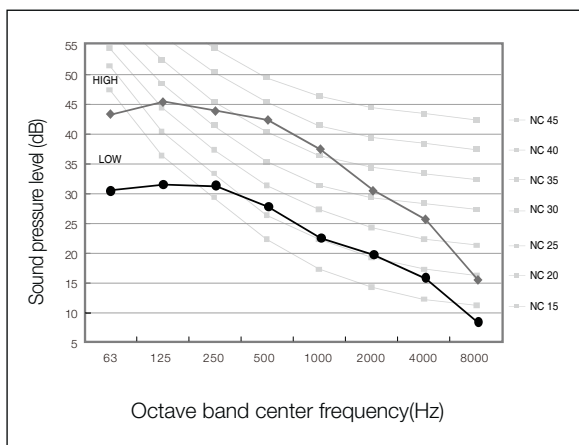
(1) JH026EAV1



(2) JH035EAV1



(3) JH052EAV1

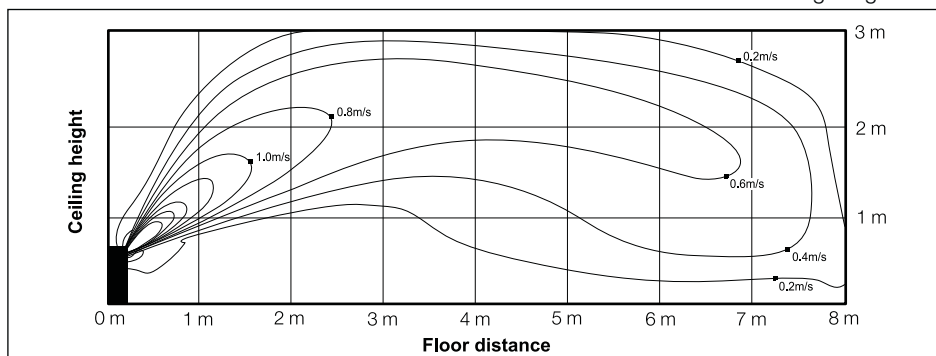


6-7. Temperature and air flow distribution

1) JH035EAV1

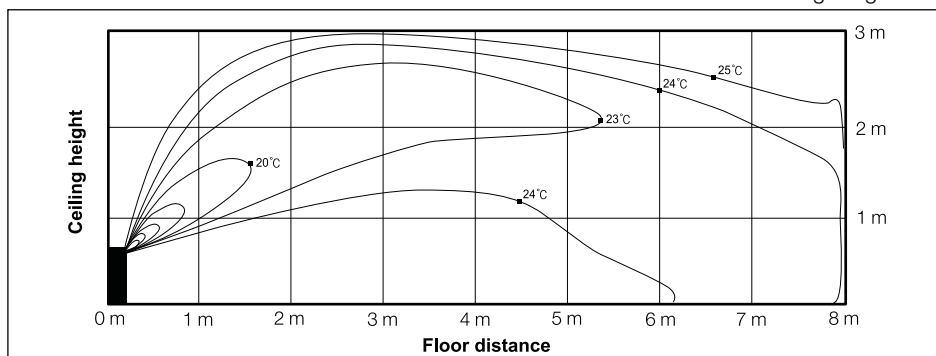
(1) Cooling air velocity distribution

◆ Discharge angle : 36°



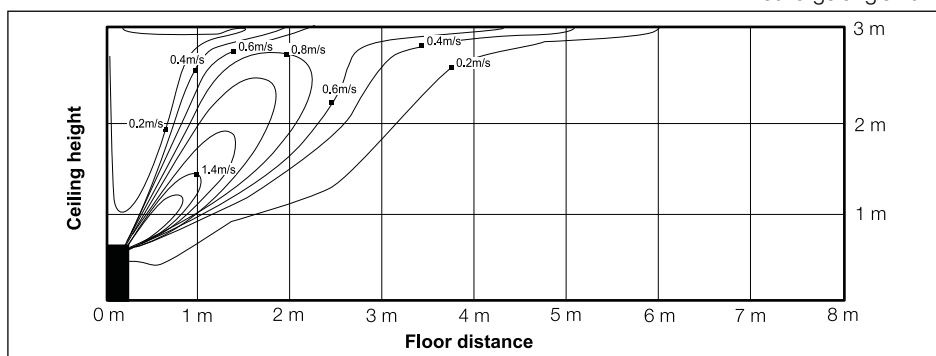
(2) Cooling temperature distribution

◆ Discharge angle : 36°



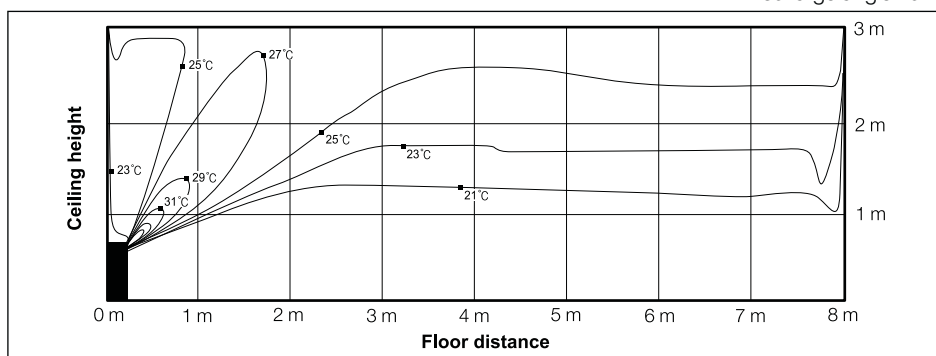
(3) Heating air velocity distribution

◆ Discharge angle : 54°



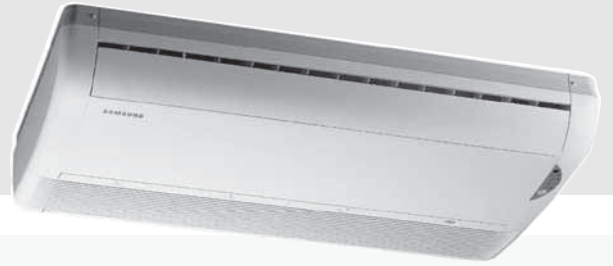
(4) Heating temperature distribution

◆ Discharge angle : 54°





Specifications



7 Ceiling

7-1. Specifications.....	128
7-2. Capacity tables	129
7-3. Dimensional drawing.....	130
7-4. PCB connector lay-out.....	131
7-5. Electrical wiring diagram	132
7-6. Sound pressure level	133
7-7. Temperature and air flow distribution.....	134

7 Ceiling

7-1. Specifications

1) Technical specifications

Model Name		Indoor Unit				NS052CDXEA		NS071CDXEA			
		Outdoor Unit				RC052DHXEA		RC071DHXEA			
System	Mode				-		Heat Pump				
	Capacity	Capacity (Nominal)	Cooling ^{*1)}		kW	1.70 / 5.00 / 5.60		2.2 / 7.1 / 8.0			
			(Min / Std / Max)		Btu/h	5,800 / 17,100 / 19,100		7,500 / 24,200 / 27,300			
			Heating ^{*2)}		kW	1.70 / 6.00 / 7.70		1.9 / 8.0 / 9.0			
			(Min / Std / Max)		Btu/h	5,800 / 20,500 / 26,300		6,500 / 27,300 / 30,700			
	Power	Power Input (Nominal)	Cooling ^{*1)}		kW	0.48 / 1.66 / 1.90		0.35 / 2.36 / 4.00			
			(Min / Std / Max)			0.43 / 1.87 / 3.05		0.35 / 2.66 / 4.00			
		Current Input (Nominal)	Cooling ^{*1)}		A	2.80 / 7.80 / 9.00		2.0 / 10.5 / 21.0			
			(Min / Std / Max)			2.40 / 8.80 / 14.50		2.0 / 12.0 / 21.0			
	COP	Nominal Cooling				-	3.01		3.01		
		Nominal Heating				-	3.21		3.01		
		Energy Grade		Cooling / Heating		-	B / C		B / D		
	Option Code					-		013004-156000-27343C-370010		013007-156000-274750-370010	
	Piping Connections	Liquid Pipe				Ø, mm(inch)	6.35 (1/4)		6.35 (1/4)		
		Gas Pipe				Ø, mm(inch)	12.70 (1/2)		15.88 (5/8)		
Installation Limitation		Max. Length				m	30.0		50.0		
		Max. Height				m	20.0		30.0		
Refrigerant	Type				-	R410A		R410A			
	Control Method				-	EEV		EEV			
	Factory Charging				kg	1.40		1.80			
Indoor Unit	Power Supply			Ø, #, V, Hz		1, 2, 220~240, 50		1, 2, 220~240, 50			
	Fan	Type				-		Cross flow			
		Motor		Output		W		130			
		Number of Unit				EA		2			
		Air Flow Rate	High / Mid / Low				CMM	12.0 / 11.5 / 10.0			
							CFM	424 / 460 / 353			
		External Static Pressure	Min / Std / Max				mmAq	-			
					Pa	-					
	Drain	Drain Pipe				Ø, mm	ID 18Hose				
	Sound	Sound Pressure ^{*3)}		High / Mid / Low		dB(A)		41 / 38 / 35			
								41 / 38.5 / 36			
	External Dimension	Net Weight				kg		22.0			
		Shipping Weight				kg		26.0			
		Net Dimensions (WxHxD)				mm		1,000 x 200 x 650			
		Shipping Dimensions (WxHxD)				mm		1,080 x 300 x 730			
	Panel Size	Panel model				-		-			
		Panel Net Weight				kg		-			
		Shipping Weight				kg		-			
		Net Dimensions (WxHxD)				mm		-			
		Shipping Dimensions (WxHxD)				mm		-			
	Additional Accessories	Drain pump	Drain pump				-		-		
			Max. Lifting Height / Displacement		mm / liter/h		-		-		
		Air Filter				-		Long life filter			
Outdoor Unit	Power Supply			Ø, #, V, Hz		1, 2, 220~240, 50		1, 2, 220~240, 50			
	Compressor	Type				-		Twin BLDC Rotary			
		Model				-		UG4T150FUDJQ			
		Oil		Type		-		POE			
	Fan	Initial Charge				cc		650			
		Air Flow Rate	Cooling / Heating				CMM	36 / 33			
							CFM	1,271 / 1,165			
	Sound	Sound Pressure ^{*3)}	Cooling / Heating		dB(A)		48 / 49				
							49 / 51				
	External Dimension	Net Weight				kg		38.5			
		Shipping Weight				kg		42.5			
		Net Dimensions (WxHxD)				mm		790 x 548 x 285			
		Shipping Dimensions (WxHxD)				mm		926 x 655 x 382			
	Operating Temp. Range	Cooling				°C		-15 ~ 46			
		Heating				°C		-15 ~ 24			

*Specifications may be subject to change without prior notice for product improvement.

*1) Nominal cooling capacities are based on;

- Indoor temperature : 27°C DB, 19°C WB / Outdoor temperature : 35°C DB, 24°C WB
- Equivalent refrigerant piping : 5m, Level differences : 0m

*2) Nominal heating capacities are based on;

- Indoor temperature : 20°C DB, 15°C WB / Outdoor temperature : 7°C DB, 6°C WB
- Equivalent refrigerant piping : 5m, Level differences : 0m

*3) Sound pressure was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

7-2. Capacity tables

1) RC052DHXEA+NS052CDXEA

(1) Cooling

TC(Total Capacity, kW), SHC(Sensible Heat Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)											
		-10			21			35			46		
WB	DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	4.76	3.57	1.40	5.20	3.90	1.39	4.65	3.49	1.54	4.00	3.00	2.14
16	22	4.88	3.66	1.44	5.32	3.99	1.42	4.76	3.57	1.58	4.10	3.07	2.19
18	25	5.00	3.75	1.47	5.46	4.09	1.45	4.88	3.66	1.62	4.20	3.15	2.24
19	27	5.12	3.84	1.51	5.59	4.19	1.49	5.00	3.75	1.66	4.30	3.23	2.30
22	30	5.24	3.93	1.55	5.72	4.29	1.53	5.12	3.84	1.70	4.40	3.30	2.36
24	32	5.37	4.03	1.58	5.86	4.40	1.56	5.24	3.93	1.74	4.51	3.38	2.41

(2) Heating

TC(Total Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)							
		-15		-10		7		24	
DB		TC	PI	TC	PI	TC	PI	TC	PI
16		3.98	2.14	4.90	2.25	6.12	1.91	7.75	1.88
18		3.94	2.12	4.85	2.23	6.06	1.89	7.68	1.86
20		3.90	2.10	4.80	2.21	6.00	1.87	7.60	1.84
21		3.86	2.08	4.75	2.19	5.94	1.85	7.52	1.82
22		3.82	2.06	4.70	2.17	5.88	1.83	7.45	1.80
24		3.78	2.04	4.66	2.14	5.82	1.81	7.37	1.79

2) RC071DHXEA+NS071CDXEA

(1) Cooling

TC(Total Capacity, kW), SHC(Sensible Heat Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)														
		-15			-10			21			35			43		
WB	DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	5.35	4.25	0.92	5.67	4.45	1.08	6.41	4.52	1.70	6.30	4.36	2.36	5.11	3.92	2.64
16	22	5.74	4.25	0.96	5.95	4.38	1.08	6.71	4.44	1.70	6.63	4.30	2.36	5.39	3.87	2.67
18	25	5.97	4.47	0.96	6.22	4.60	1.10	7.04	4.67	1.70	6.93	4.52	2.36	5.64	4.07	2.67
19	27	6.10	4.70	0.96	6.34	4.85	1.10	7.21	4.96	1.70	7.10	4.80	2.36	5.78	4.33	2.67
22	30	6.46	4.51	0.98	6.76	4.68	1.10	7.68	4.80	1.72	7.57	4.65	2.39	6.17	4.19	2.67
24	32	6.72	4.39	0.98	7.01	4.55	1.12	7.98	4.67	1.72	7.90	4.54	2.39	6.45	4.10	2.72

(2) Heating

TC(Total Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)											
		-20		-10		-5		2		7		24	
DB		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
16		4.69	2.84	7.08	2.46	7.44	2.65	7.72	2.46	8.22	2.60	8.65	2.21
18		5.03	2.87	6.90	2.50	7.29	2.77	7.63	2.49	8.12	2.62	8.53	2.21
20		5.23	2.92	6.74	2.53	7.19	2.80	7.50	2.49	8.00	2.66	8.44	2.24
21		5.34	2.92	6.69	2.53	7.10	2.80	7.45	2.53	7.95	2.66	8.36	2.27
22		5.66	2.92	6.59	2.53	7.05	2.84	7.37	2.53	7.88	2.66	8.32	2.27
24		5.89	2.95	6.46	2.57	6.90	2.88	7.26	2.56	7.78	2.70	8.21	2.29

☒ Note

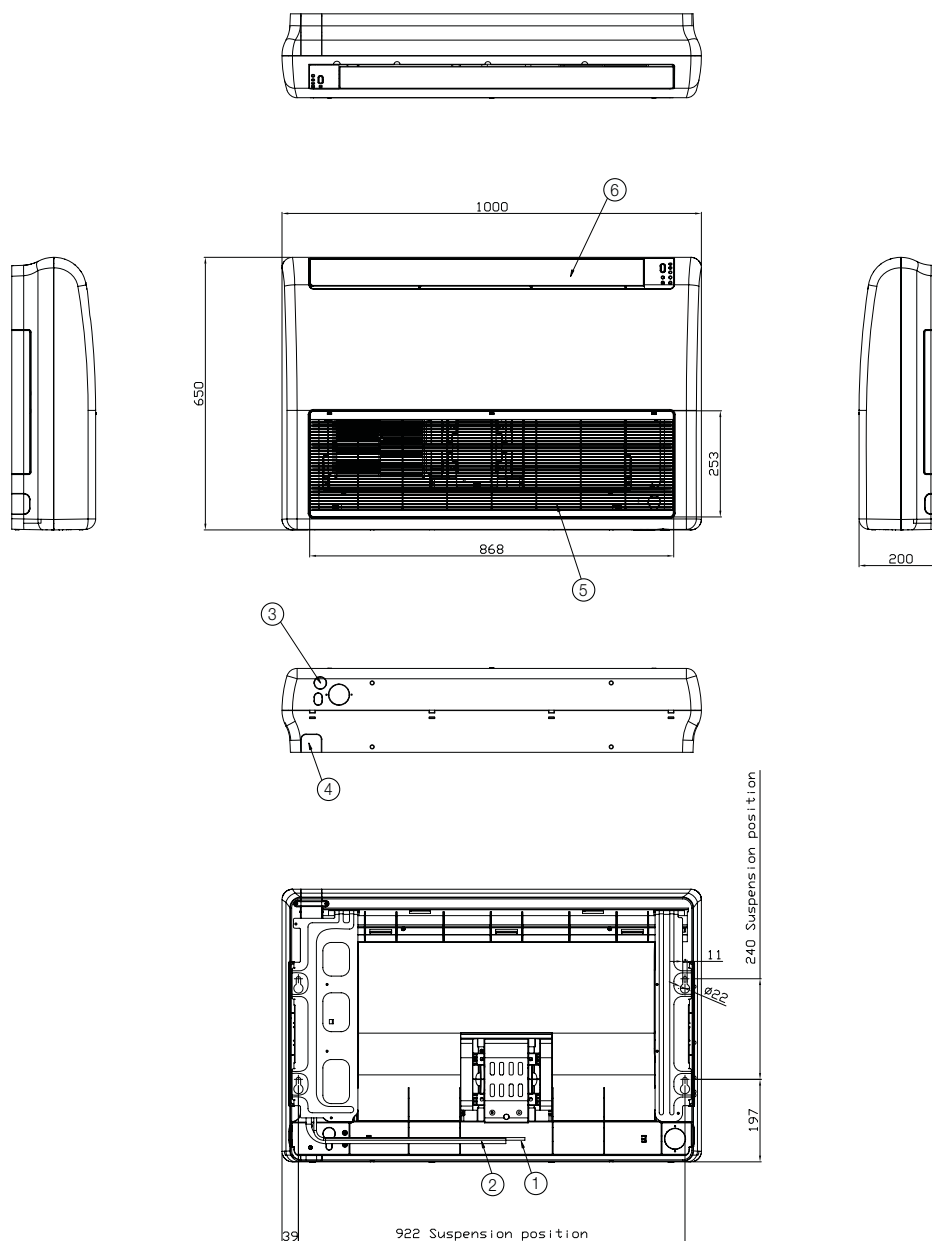
- ◆ Ratings shown are net capacities.
- ◆ Capacities are based on following conditions;
 - Equivalent refrigerant piping length : 5m / Level difference : 0m.

7 Ceiling

7-3. Dimensional drawing

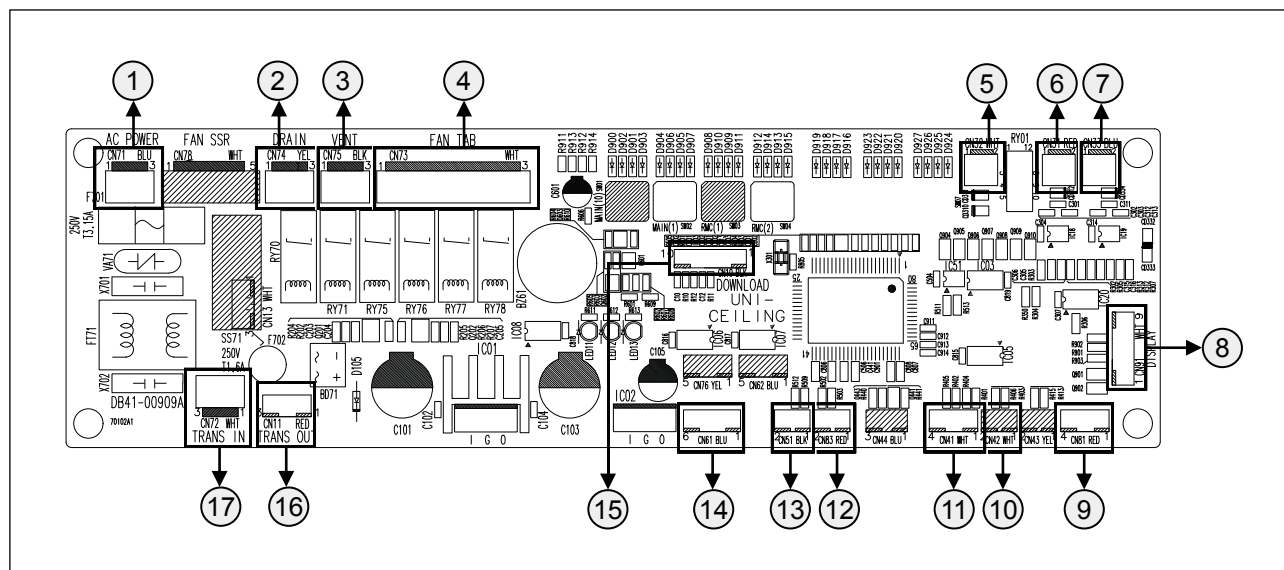
1) NS052/071CDXEA

Unit:mm



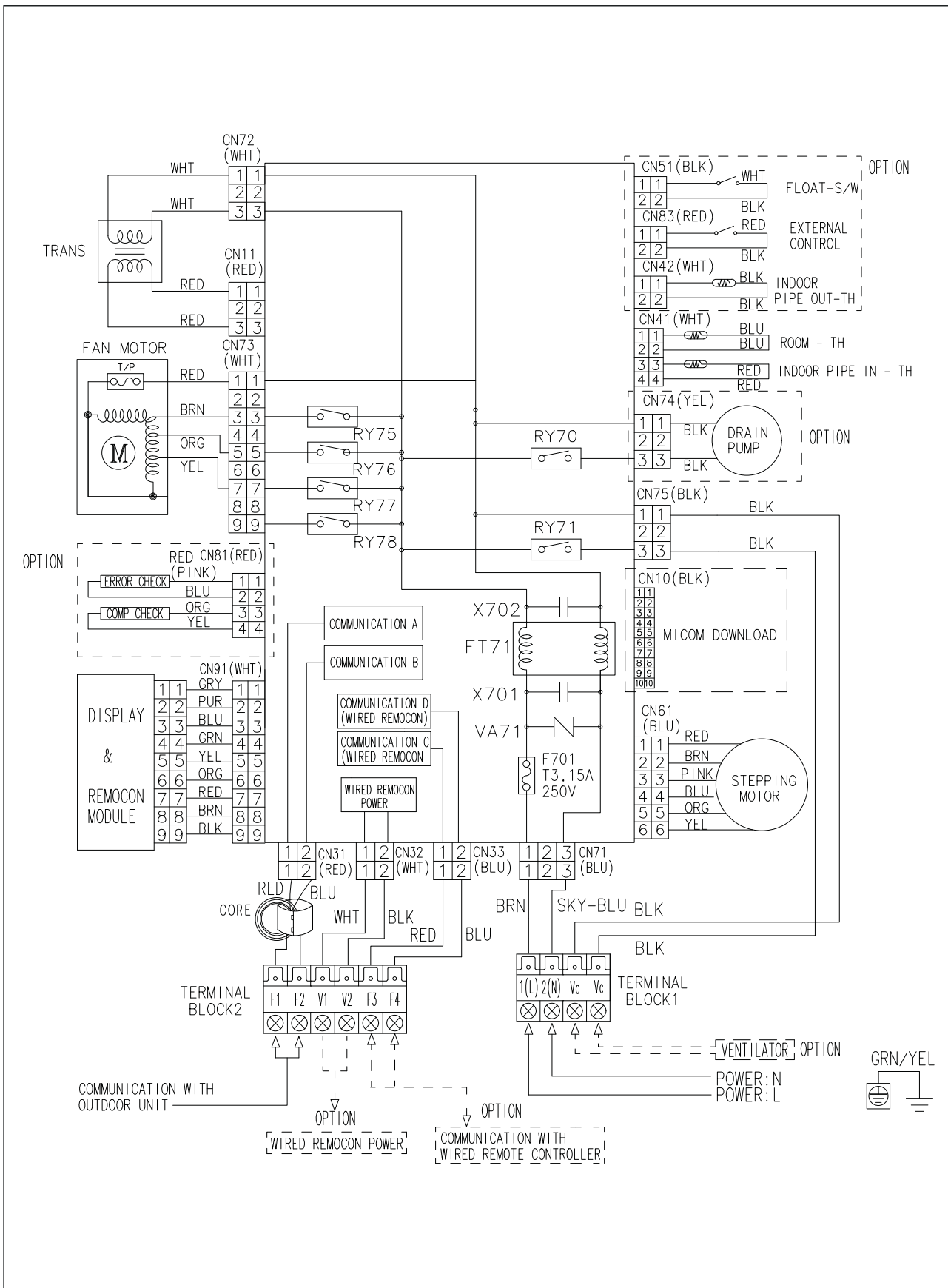
No.	Name	Description	
		5.0kW	7.1kW
①	Liquid pipe connection	Ø6.35mm (1/4") Flare	
②	Gas pipe connection	Ø12.70mm (1/2") Flare	Ø15.88mm (5/8") Flare
③	Drain pipe connection	ID18 Hose	
④	Conduit for power supply & communication wiring	-	
⑤	Air inlet grille	-	
⑥	Air outlet louver	-	

7-4. PCB connector lay-out



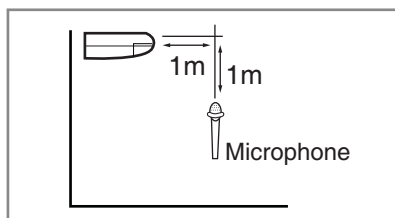
7-5. Electrical wiring diagram

1) NS052/071CDXEA



7-6. Sound pressure level

1) Operation sound level



Unit : dB(A)

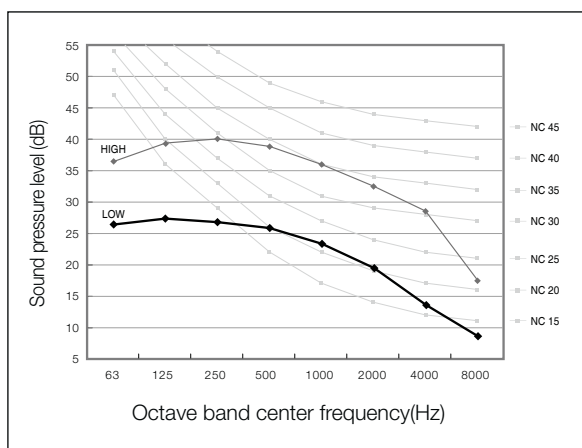
Model	High	Low
NS052CDXEA	41	35
NS071CDXEA	41	36

☒ Note

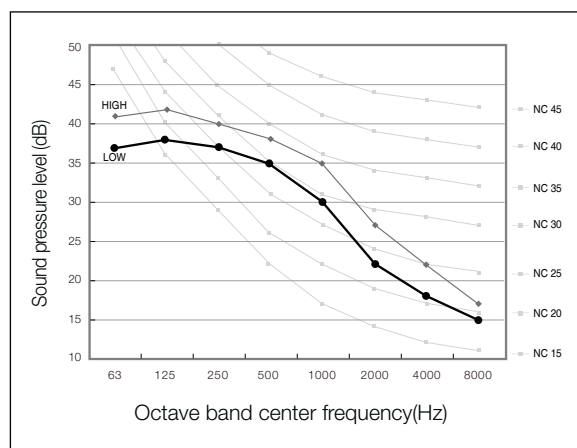
- ◆ These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- ◆ Operation sound level may differ depending on operation and ambient conditions.

2) NC curves

(1) NS052CDXEA



(2) NS071CDXEA



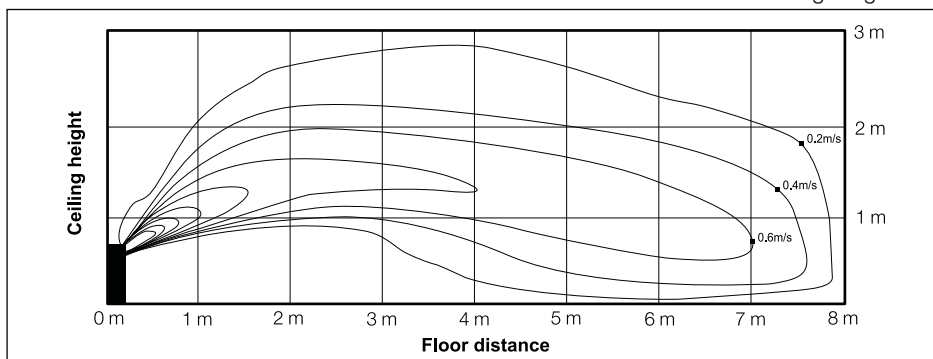
7 Ceiling

7-7. Temperature and air flow distribution

1) NS071CDXEA (Floor installation)

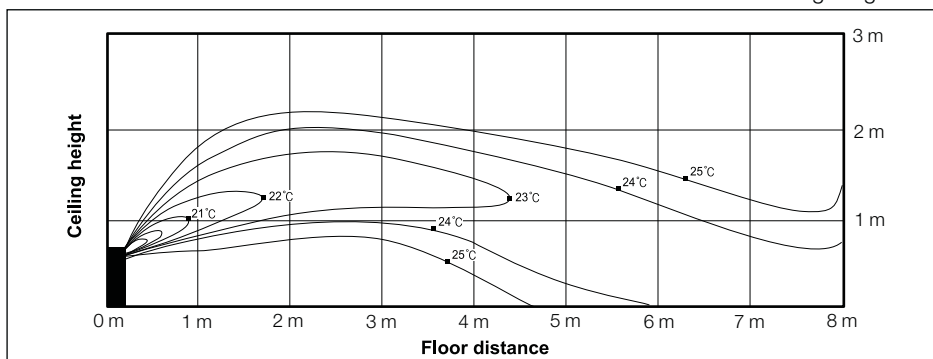
(1) Cooling air velocity distribution

◆ Discharge angle : 36°



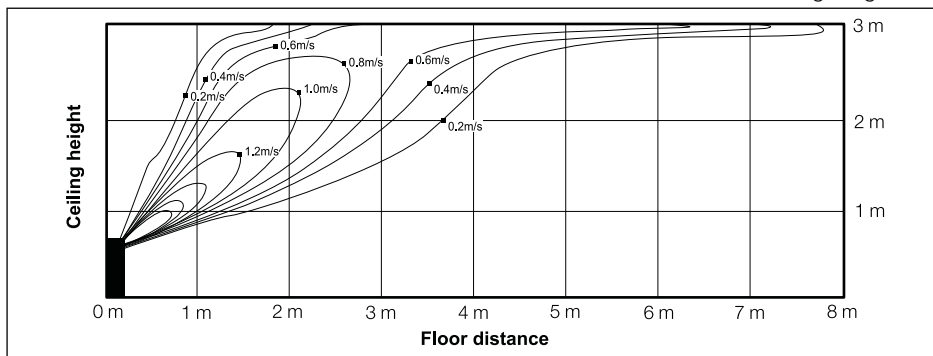
(2) Cooling temperature distribution

◆ Discharge angle : 36°



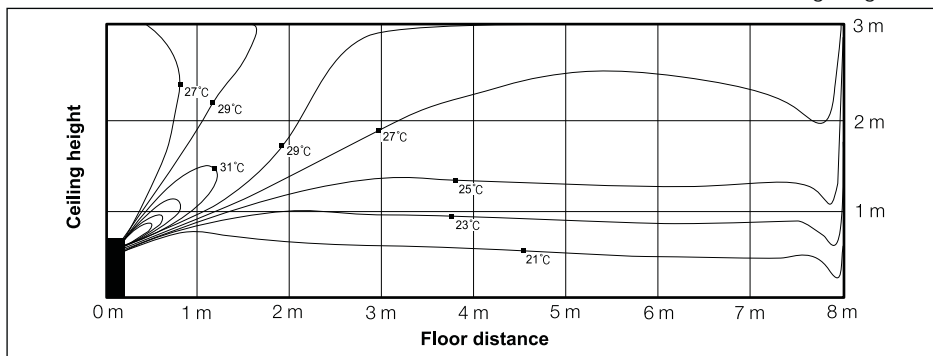
(3) Heating air velocity distribution

◆ Discharge angle : 54°



(4) Heating temperature distribution

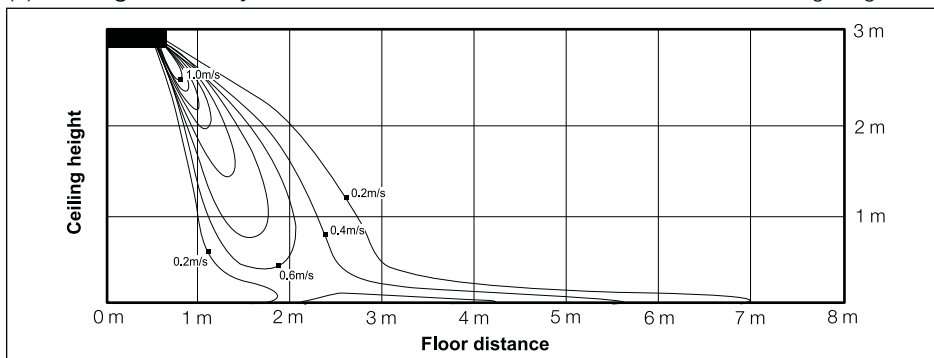
◆ Discharge angle : 54°



2) NS071CDXEA (Ceiling installation)

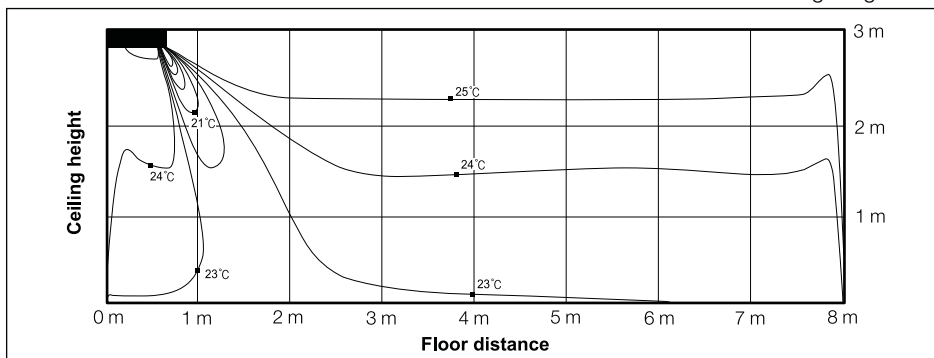
(1) Cooling air velocity distribution

◆ Discharge angle : 36°



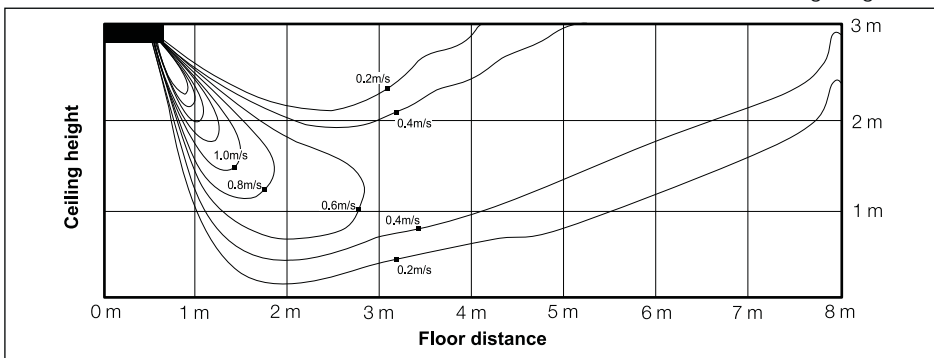
(2) Cooling temperature distribution

◆ Discharge angle : 36°



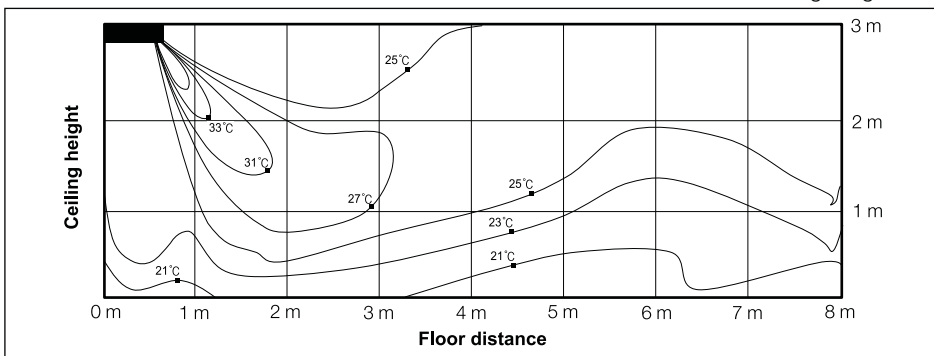
(3) Heating air velocity distribution

◆ Discharge angle : 54°



(4) Heating temperature distribution

◆ Discharge angle : 54°





Specifications



8 Neo forte

8-1. Specifications.....	138
8-2. Capacity tables	139
8-3. Dimensional drawing.....	141
8-4. PCB connector lay-out.....	143
8-5. Electrical wiring diagram	144
8-6. Sound pressure level	145
8-7. Temperature and air flow distribution.....	146

8-1. Specifications

1) Technical specifications

Model Name				Indoor Unit		Outdoor Unit		NS026NDXEA	NS035NDXEA	NS052NDXEA	NS071NDXEA		
								RC026DHXEA	RC035DHXEA	RC052DHXEA	RC071DHXEA		
System	Mode					-		Heat Pump		Heat Pump			
	Capacity	Capacity (Nominal)	Cooling ⁽¹⁾	kW	1.20 / 2.60 / 3.50		1.20 / 3.50 / 3.70		1.90 / 5.00 / 6.05		2.2 / 7.1 / 8.0		
			Heating ⁽²⁾		4,100 / 8,900 / 11,900		4,100 / 11,900 / 12,600		6,500 / 17,100 / 20,600		7,500 / 24,200 / 27,300		
			Heating ⁽²⁾		1.03 / 3.50 / 3.80		1.04 / 4.00 / 4.40		1.50 / 6.00 / 6.25		1.9 / 8.0 / 9.0		
			Heating ⁽²⁾		3,500 / 11,900 / 13,000		3,500 / 13,600 / 15,000		5,100 / 20,500 / 21,300		6,500 / 27,300 / 30,700		
	Power	Power Input (Nominal)	Cooling ⁽¹⁾	kW	0.25 / 0.65 / 1.50		0.25 / 1.05 / 1.50		0.40 / 1.56 / 2.20		0.35 / 2.36 / 4.00		
			Heating ⁽²⁾		0.20 / 0.97 / 1.20		0.21 / 1.17 / 1.40		0.34 / 1.76 / 3.15		0.35 / 2.85 / 4.00		
		Current Input (Nominal)	Cooling ⁽¹⁾	A	1.60 / 3.40 / 7.00		1.60 / 5.10 / 7.0		2.60 / 7.20 / 9.80		2.0 / 10.5 / 21.0		
			Heating ⁽²⁾		1.30 / 5.00 / 5.40		1.30 / 5.80 / 6.50		2.30 / 8.30 / 14.0		2.0 / 13.0 / 21.0		
		Circuit Breaker (MCCB+ELB / ELCB)			A	15		15		20		25	
	COP	Nominal Cooling		-	4.00		3.33		3.21		3.01		
		Nominal Heating		-	3.61		3.42		3.41		2.81		
		Energy Grade	Cooling / Heating	-	A / A		A / B		A / B		B / D		
	Option Code			-		019057-17622C -271A23-370010		019057-17624E -272328-370010		019057-16625C -27343C-370010		019037-1562AC- 274750-370010	
	Piping Connections	Liquid Pipe		Ø, mm(inch)		6.35 (1/4)		6.35 (1/4)		6.35 (1/4)		6.35 (1/4)	
		Gas Pipe		Ø, mm(inch)		9.52 (3/8)		9.52 (3/8)		12.70 (1/2)		15.88 (5/8)	
		Installation Limitation	Max. Length	m		20.0		20.0		30.0		50.0	
	Max. Height		m		15.0		15.0		20.0		30.0		
Refrigerant	Type		-		R410A		R410A		R410A		R410A		
	Control Method		-		EEV		EEV		EEV		EEV		
	Factory Charging		kg		0.95		0.95		1.40		1.80		
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	
Fan	Type		-		Cross flow		Cross flow		Cross flow		Crossflow Fan		
	Motor	Output	W		40		40		73		40		
		Number of Unit	EA		1		1		1		1		
	Air Flow Rate	High / Mid / Low	CMM		8.0 / 7.0 / 6.0		8.5 / 7.5 / 6.5		13 / 11.4 / 9.8		15 / 13.4 / 11.8		
	External Static Pressure	Min / Std / Max	CFM		283 / 247 / 212		300 / 265 / 230		459 / 403 / 346		530 / 473 / 417		
Drain	External Static Pressure		mmAq		-		-		-		-		
	Pa		-		-		-		-		-		
Drain	Drain Pipe		Ø, mm		ID 18Hose		ID 18Hose		ID 18Hose		ID 18Hose		
Sound	Sound Pressure ⁽³⁾		High / Mid / Low	dB(A)		32 / 30 / 27		36 / 32 / 29		40 / 35 / 30		41 / 35.5 / 30	
External Dimension	Net Weight		kg		9.0		9.0		13.0		13.0		
	Shipping Weight		kg		11.0		11.0		16.0		16.0		
	Net Dimensions (WxHxD)		mm		825 x 189 x 285		825 x 189 x 285		1,065 x 218 x 298		1,065 x 298 x 218		
	Shipping Dimensions (WxHxD)		mm		904 x 263 x 353		904 x 263 x 353		1,138 x 301 x 378		1,137 x 377 x 299		
Panel Size	Panel model		-		-		-		-		-		
	Panel Net Weight		kg		-		-		-		-		
	Shipping Weight		kg		-		-		-		-		
	Net Dimensions (WxHxD)		mm		-		-		-		-		
Additional Accessories	Shipping Dimensions (WxHxD)		mm		-		-		-		-		
	Drain pump	Drain pump	-		-		-		-		-		
		Max. Lifting Height / Displacement	mm / liter/h		-		-		-		-		
	Air Filter		-		Long life filter		Long life filter		Long life filter		Long life filter		
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	
Compressor	Type		-		Single BLDC Rotary		Single BLDC Rotary		Twin BLDC Rotary		Twin BLDC Rotary		
	Model		-		UG4C090LUDJR		UG4C090LUDJR		UG4T150FUDJQ		UG4T200FUA4		
	Oil	Type	-		POE		POE		POE		POE		
Initial Charge		cc		320		320		650		650			
Fan	Air Flow Rate	Cooling / Heating	CMM		29 / 29		30 / 30		36 / 33		50.0 / 48.0		
			CFM		1,024 / 1,024		1,060 / 1,060		1,271 / 1,165		1,766 / 1,695		
Sound	Sound Pressure ⁽³⁾	Cooling / Heating	dB(A)		46 / 47		47 / 48		48 / 49		49 / 51		
External Dimension	Net Weight		kg		33.0		33.0		38.5		55.0		
	Shipping Weight		kg		37.0		37.0		42.5		59.0		
	Net Dimensions (WxHxD)		mm		790 x 548 x 285		790 x 548 x 285		790 x 798 x 285		880 x 798 x 310		
	Shipping Dimensions (WxHxD)		mm		926 x 655 x 382		926 x 655 x 382		926 x 655 x 382		1,023 x 891 x 413		
Operating Temp. Range	Cooling		°C		-10 ~ 46		-10 ~ 46		-15 ~ 46		-15 ~ 50		
	Heating		°C		-15 ~ 24		-15 ~ 24		-15 ~ 24		-20 ~ 24		

*Specifications may be subject to change without prior notice for product improvement.

*1) Nominal cooling capacities are based on;

- Indoor temperature : 27°C DB, 19°C WB / Outdoor temperature : 35°C DB, 24°C WB
- Equivalent refrigerant piping : 5m, Level differences : 0m

*2) Nominal heating capacities are based on;

- Indoor temperature : 20°C DB, 15°C WB / Outdoor temperature : 7°C DB, 6°C WB
- Equivalent refrigerant piping : 5m, Level differences : 0m

*3) Sound pressure was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

8-2. Capacity tables

1) RC026DHXEA+NS026NDXEA

(1) Cooling

TC(Total Capacity, kW), SHC(Sensible Heat Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)											
		-10			21			35			46		
WB	DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	1.83	1.37	0.39	2.32	1.74	0.45	2.42	1.81	0.60	2.60	1.95	1.20
16	22	1.88	1.41	0.40	2.38	1.79	0.46	2.48	1.86	0.62	2.67	2.00	1.23
18	25	1.92	1.44	0.41	2.44	1.83	0.47	2.54	1.90	0.63	2.73	2.05	1.26
19	27	1.97	1.48	0.42	2.50	1.88	0.48	2.60	1.95	0.65	2.80	2.10	1.29
22	30	2.02	1.51	0.43	2.56	1.92	0.49	2.66	2.00	0.67	2.87	2.15	1.32
24	32	2.07	1.55	0.44	2.62	1.97	0.50	2.73	2.04	0.68	2.94	2.20	1.35

(2) Heating

TC(Total Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)							
		-15		-10		7		24	
DB		TC	PI	TC	PI	TC	PI	TC	PI
16		1.71	1.02	2.39	1.14	3.57	0.99	4.28	1.11
18		1.70	1.01	2.36	1.13	3.54	0.98	4.24	1.10
20		1.68	1.00	2.34	1.12	3.50	0.97	4.20	1.09
21		1.66	0.99	2.32	1.11	3.47	0.96	4.16	1.08
22		1.65	0.98	2.29	1.10	3.43	0.95	4.12	1.07
24		1.63	0.97	2.27	1.09	3.40	0.94	4.08	1.06

2) RC035DHXEA+NS035NDXEA

(1) Cooling

TC(Total Capacity, kW), SHC(Sensible Heat Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)											
		-5			21			35			46		
WB	DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	2.75	2.06	0.72	2.98	2.24	0.98	3.25	2.44	0.98	2.79	2.09	1.25
16	22	2.82	2.11	0.73	3.06	2.29	1.00	3.33	2.50	1.00	2.86	2.14	1.28
18	25	2.89	2.17	0.75	3.13	2.35	1.02	3.42	2.56	1.02	2.93	2.20	1.31
19	27	2.96	2.22	0.77	3.21	2.41	1.05	3.50	2.63	1.05	3.00	2.25	1.34
22	30	3.03	2.27	0.79	3.29	2.47	1.08	3.58	2.69	1.08	3.07	2.30	1.37
24	32	3.10	2.33	0.81	3.37	2.52	1.10	3.67	2.75	1.10	3.15	2.36	1.41

(2) Heating

TC(Total Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)							
		-15		-10		7		24	
DB		TC	PI	TC	PI	TC	PI	TC	PI
16		2.10	0.99	2.93	1.16	4.08	1.19	5.17	1.41
18		2.08	0.98	2.90	1.15	4.04	1.18	5.12	1.39
20		2.06	0.97	2.87	1.14	4.00	1.17	5.07	1.38
21		2.04	0.96	2.84	1.13	3.96	1.16	5.02	1.37
22		2.02	0.95	2.81	1.12	3.92	1.15	4.97	1.35
24		2.00	0.94	2.78	1.11	3.88	1.14	4.92	1.34

Note

- ◆ Ratings shown are net capacities.
- ◆ Capacities are based on following conditions;
 - Equivalent refrigerant piping length : 5m / Level difference : 0m.

8-2. Capacity tables

3) RC052DHXEA+NS052NDXEA

(1) Cooling

TC(Total Capacity, kW), SHC(Sensible Heat Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)											
		-10			21			35			46		
WB	DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	5.24	3.93	1.30	5.39	4.04	1.21	4.65	3.49	1.45	3.17	2.38	1.30
16	22	5.37	4.03	1.33	5.52	4.14	1.24	4.76	3.57	1.49	3.25	2.44	1.33
18	25	5.50	4.13	1.37	5.66	4.25	1.27	4.88	3.66	1.52	3.33	2.50	1.37
19	27	5.64	4.23	1.40	5.80	4.35	1.30	5.00	3.75	1.56	3.41	2.56	1.40
22	30	5.78	4.33	1.43	5.94	4.45	1.33	5.12	3.84	1.60	3.49	2.62	1.43
24	32	5.91	4.44	1.47	6.08	4.56	1.36	5.24	3.93	1.64	3.58	2.68	1.47

(2) Heating

TC(Total Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)							
		-15		-10		7		24	
DB		TC	PI	TC	PI	TC	PI	TC	PI
16		3.90	2.02	4.71	2.29	6.12	1.80	7.42	1.86
18		3.86	2.00	4.67	2.26	6.06	1.78	7.34	1.84
20		3.82	1.98	4.62	2.24	6.00	1.76	7.27	1.82
21		3.78	1.96	4.57	2.22	5.94	1.74	7.20	1.80
22		3.74	1.94	4.53	2.20	5.88	1.72	7.13	1.78
24		3.71	1.92	4.48	2.17	5.82	1.71	7.05	1.77

4) RC071DHXEA + NS071NDXEA

(1) Cooling

TC(Total Capacity, kW), SHC(Sensible Heat Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)											
		-5			21			35			43		
WB	DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	7.72	6.43	1.29	8.08	6.73	2.22	6.60	5.50	2.19	5.70	4.75	2.42
16	22	7.91	6.59	1.32	8.28	6.90	2.28	6.76	5.64	2.25	5.84	4.87	2.48
18	25	8.10	6.75	1.35	8.48	7.07	2.33	6.93	5.77	2.30	5.99	4.99	2.54
19	27	8.30	6.92	1.39	8.69	7.24	2.39	7.10	5.92	2.36	6.14	5.11	2.60
22	30	8.50	7.08	1.42	8.90	7.42	2.45	7.27	6.06	2.42	6.28	5.24	2.66
24	32	8.70	7.25	1.45	9.11	7.60	2.51	7.44	6.20	2.47	6.43	5.36	2.73

(2) Heating

TC(Total Capacity, kW), PI(Power Input, kW)

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)							
		-15		-10		7		24	
DB		TC	PI	TC	PI	TC	PI	TC	PI
16		5.48	2.90	6.23	3.33	8.16	2.91	10.04	3.42
18		5.42	2.87	6.17	3.30	8.08	2.88	9.94	3.38
20		5.37	2.84	6.11	3.27	8.00	2.85	9.84	3.35
21		5.32	2.81	6.05	3.23	7.92	2.82	9.74	3.32
22		5.26	2.78	5.99	3.20	7.84	2.79	9.64	3.28
24		5.21	2.76	5.93	3.17	7.76	2.77	9.55	3.25

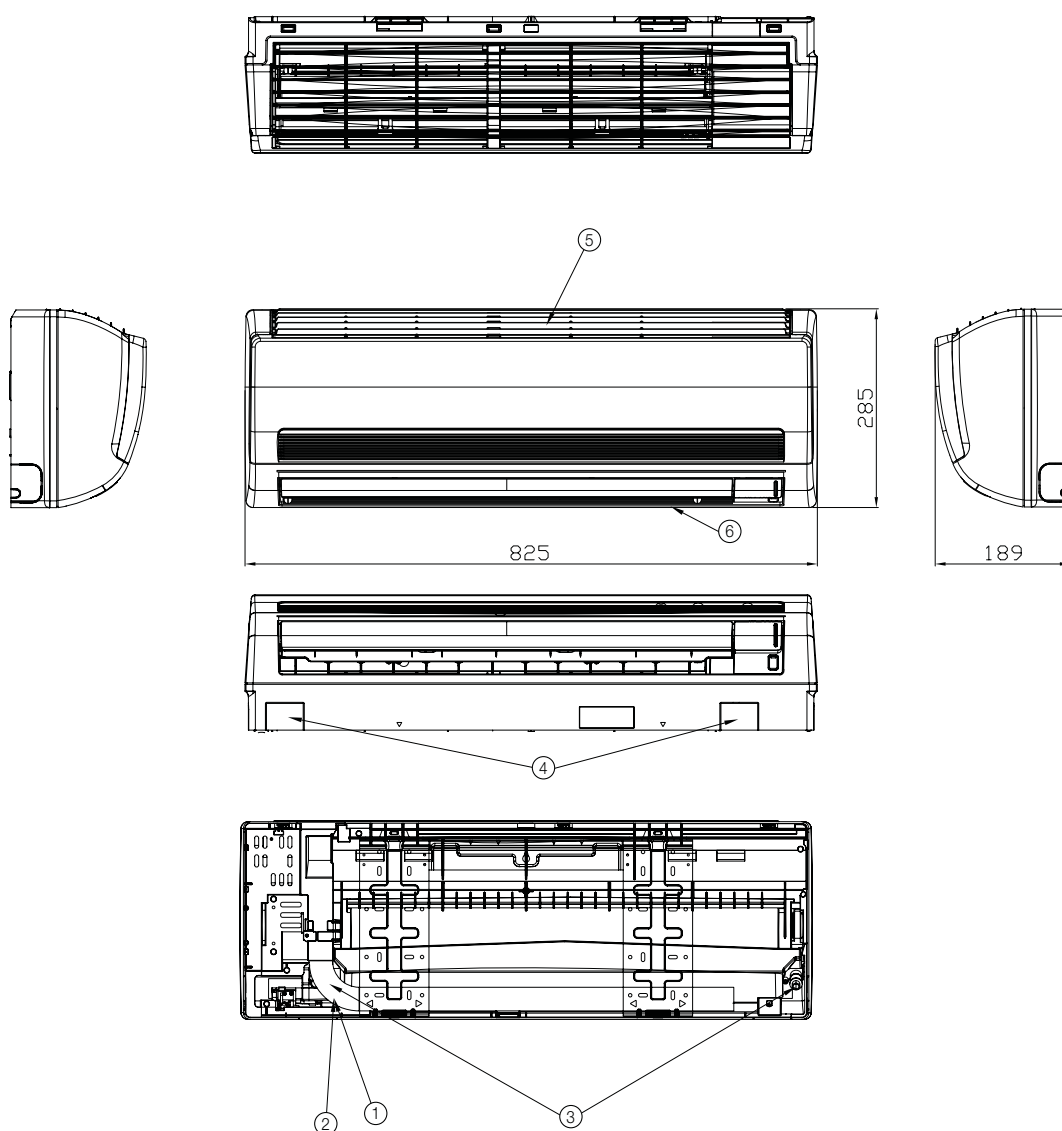
✓ Note

- ◆ Ratings shown are net capacities.
- ◆ Capacities are based on following conditions;
 - Equivalent refrigerant piping length : 5m / Level difference : 0m.

8-3. Dimensional drawing

1) NS026/035NDXEA

Unit:mm

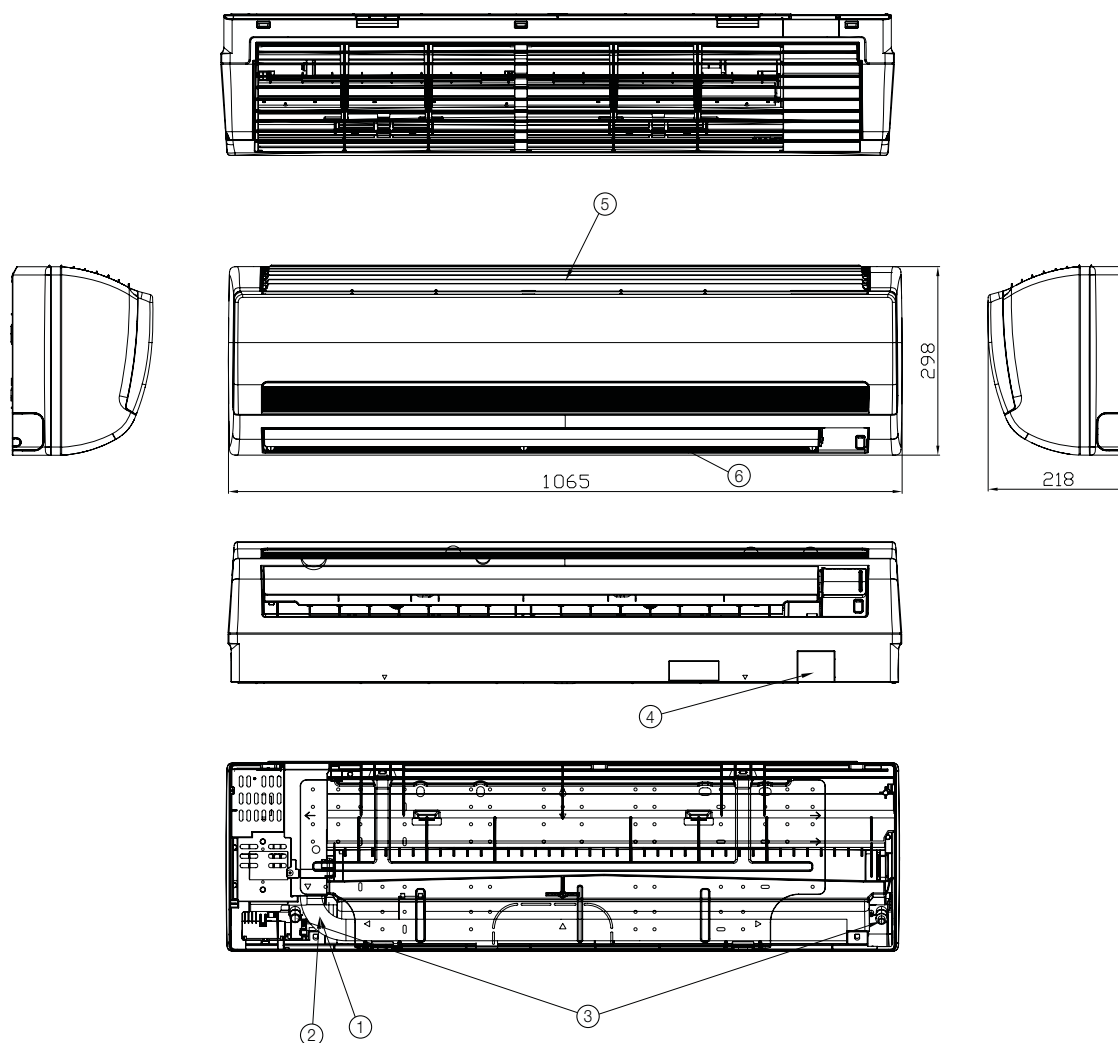


No.	Name	Description	
		2.6kW	3.5kW
①	Liquid pipe connection	Ø6.35mm (1/4") Flare	
②	Gas pipe connection	Ø9.52mm (3/8") Flare	
③	Drain pipe connection	ID18 Hose	
④	Conduit for power supply & communication wiring	-	
⑤	Air inlet grille	-	
⑥	Air outlet louver	-	

8-3. Dimensional drawing

2) NS052/071NDXEA

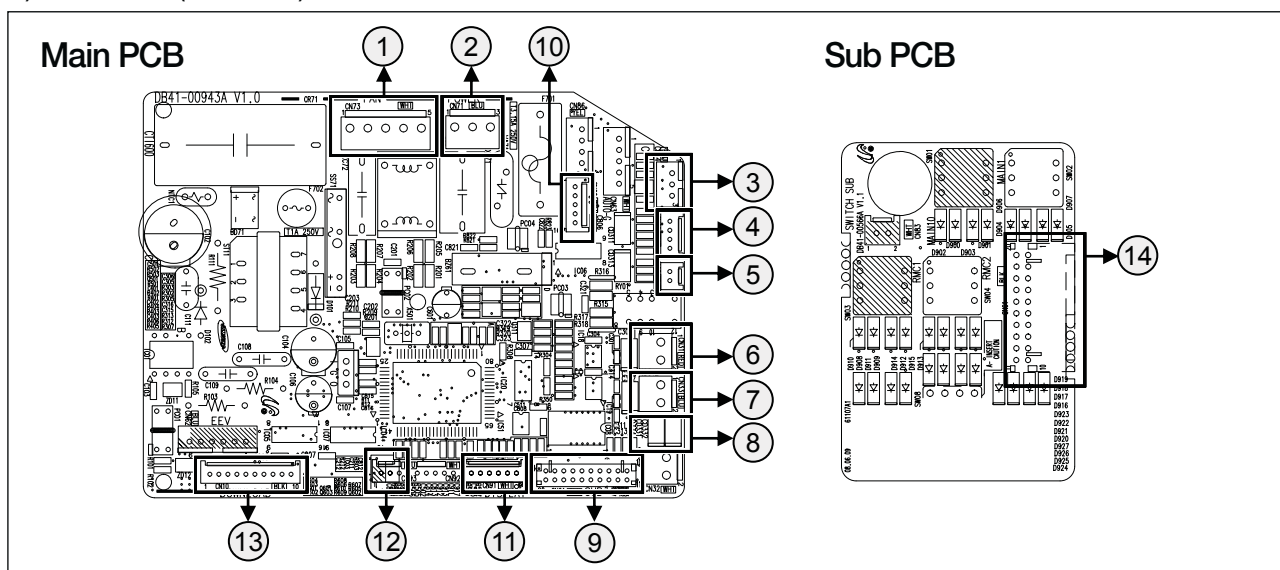
Unit:mm



No.	Name	Description	
		5.0kW	7.1kW
①	Liquid pipe connection	Ø6.35mm (1/4") Flare	
②	Gas pipe connection	Ø12.70mm (1/2") Flare	Ø15.88mm (5/8") Flare
③	Drain pipe connection	ID18 Hose	
④	Conduit for power supply & communication wiring	-	
⑤	Air inlet grille	-	
⑥	Air outlet louver	-	

8-4. PCB connector lay-out

1) Neo Forte (Non EEV)



Main PCB

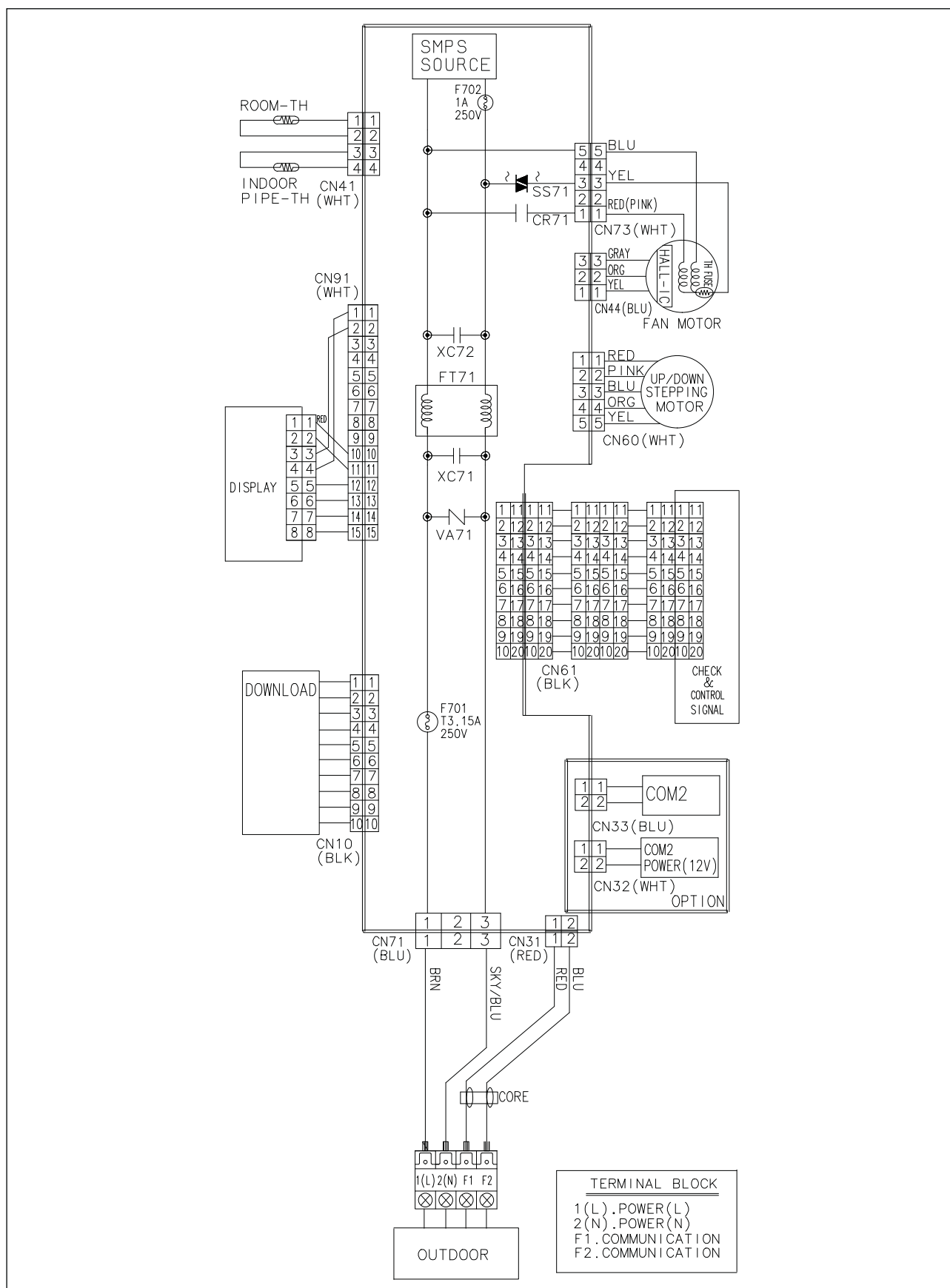
No.	CN #	Color	Function
①	CN73	White	Fan Motor
②	CN71	Blue	AC 230V Input
③	CN44	Blue	Hall IC
④	CN41	White	Eva-Out Sensor
⑤	CN42	White	Communication with Outdoor Units (COM1)
⑥	CN31	Red	Communication with Wired Remote Controller (COM2)
⑦	CN33	Blue	DC12V for Wired remote controller
⑧	CN32	White	Main-Sub PCB connector
⑨	CN61	Black	Main-Sub PCB connector
⑩	CN60	White	Up&Down Stepping Motor
⑪	CN92	White	Display
⑫	CN93	White	Display
⑬	CN10	Black	MICOM Download

Sub PCB

No.	CN #	Color	Function
⑭	CN61	Black	Main-Sub PCB Connector

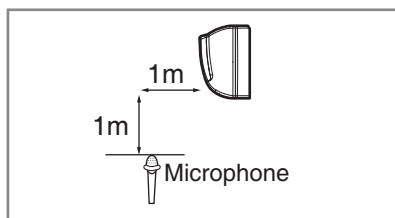
8-5. Electrical wiring diagram

1) Neo Forte



8-6. Sound pressure level

1) Operation sound level



Unit : dB(A)

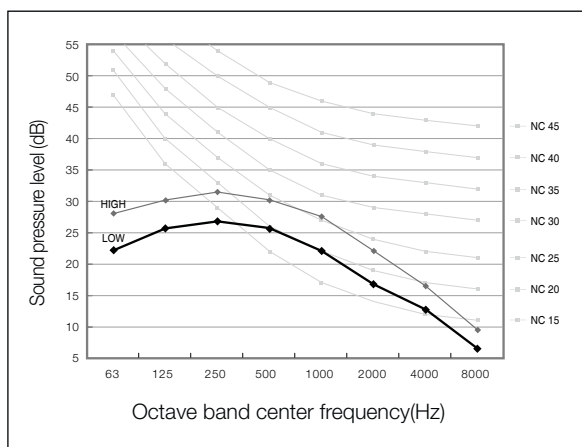
Model	High	Low
NS026NDXEA	32	27
NS035NDXEA	36	29
NS052NDXEA	40	30
NS071NDXEA	41	30

☒ Note

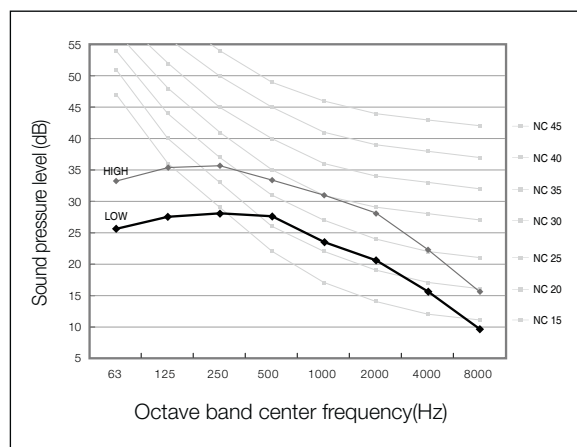
- ◆ These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- ◆ Operation sound level may differ depending on operation and ambient conditions.

2) NC curves

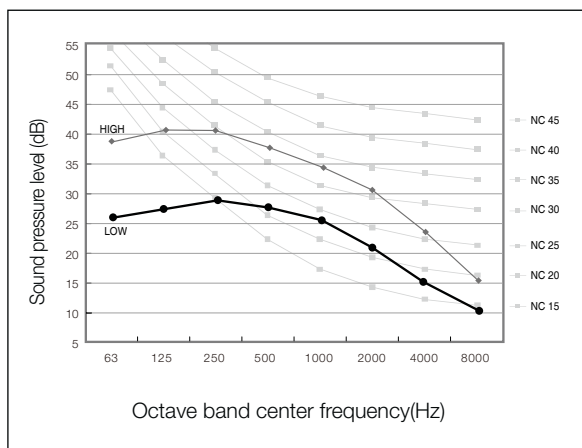
(1) NS026NDXEA



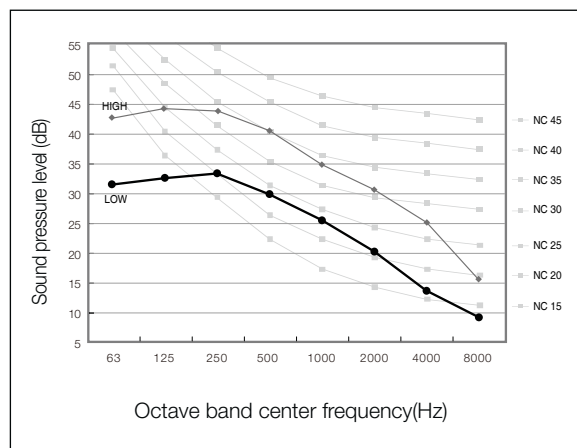
(2) NS035NDXEA



(3) NS052NDXEA



(4) NS071NDXEA

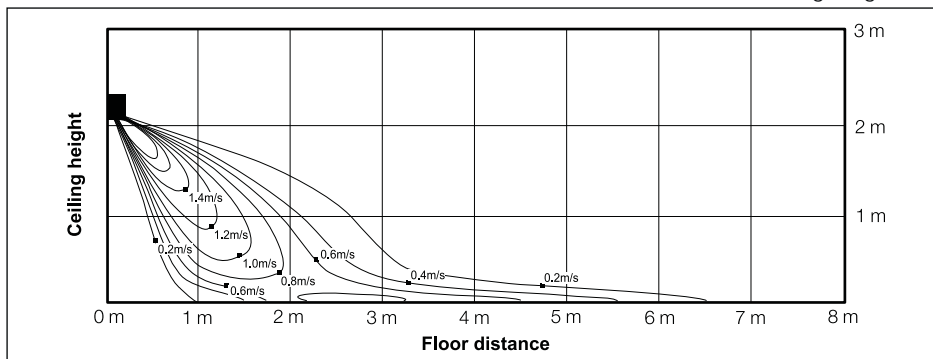


8-7. Temperature and air flow distribution

1) NS035NDXEA

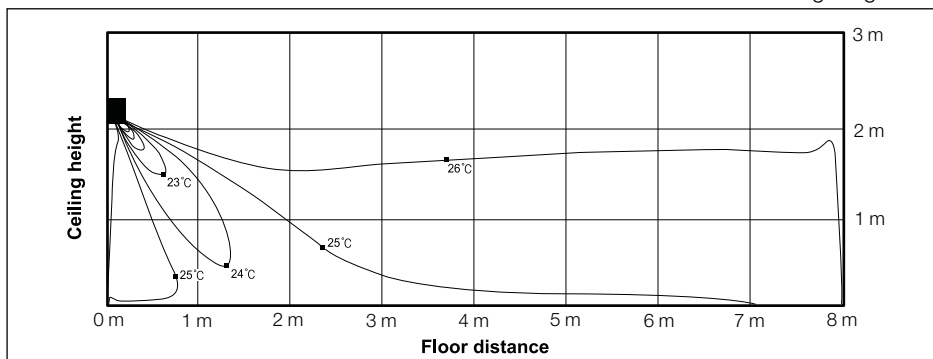
(1) Cooling air velocity distribution

◆ Discharge angle : 60°



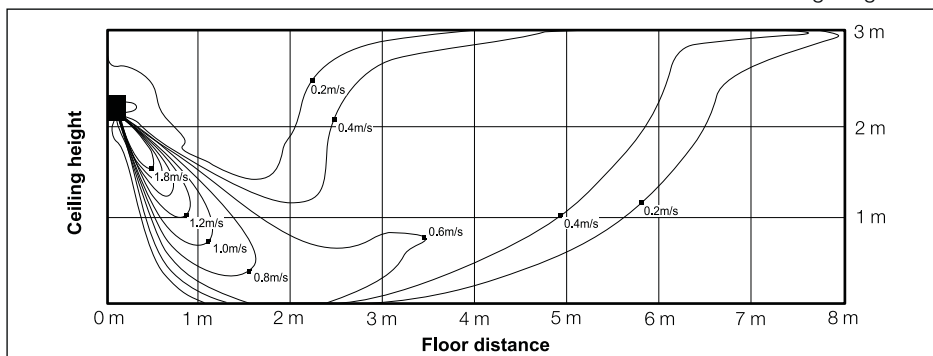
(2) Cooling temperature distribution

◆ Discharge angle : 60°



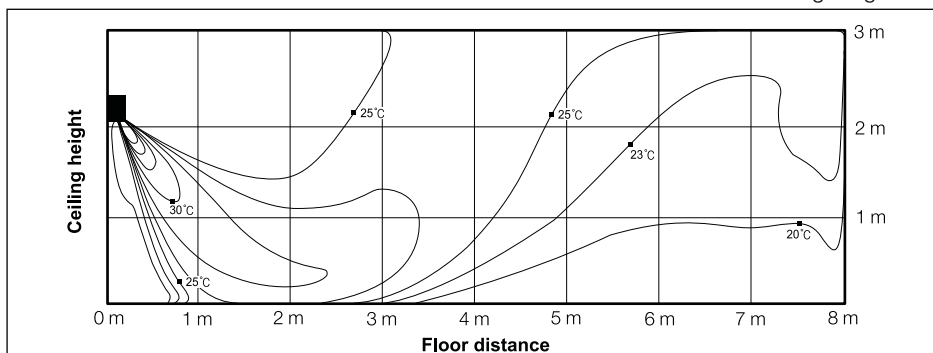
(3) Heating air velocity distribution

◆ Discharge angle : 60°



(4) Heating temperature distribution

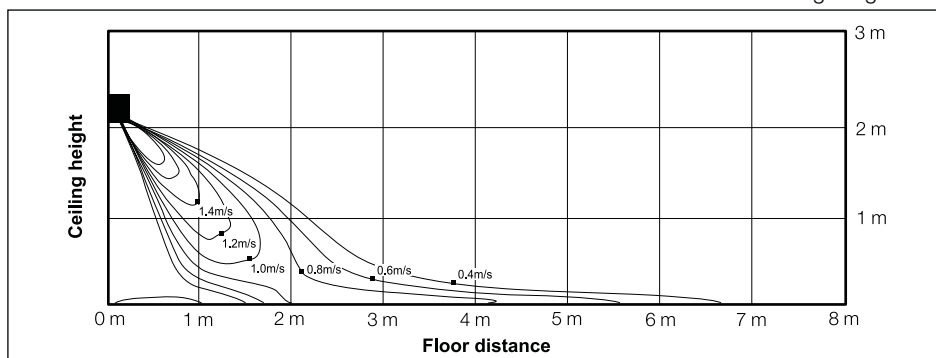
◆ Discharge angle : 60°



2) NS071NDXEA

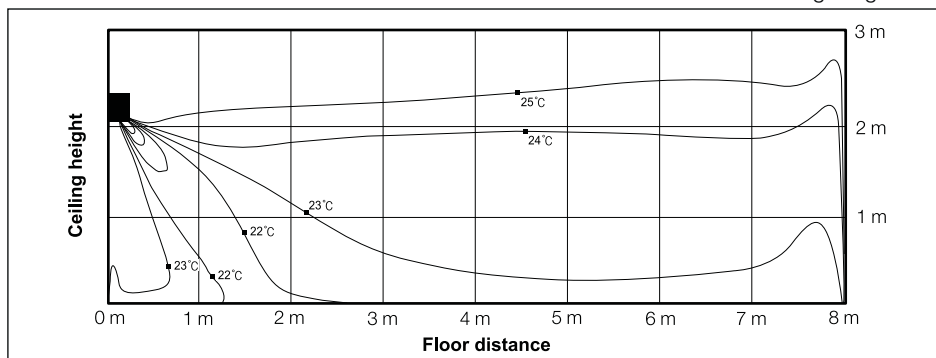
(1) Cooling air velocity distribution

◆ Discharge angle : 60°



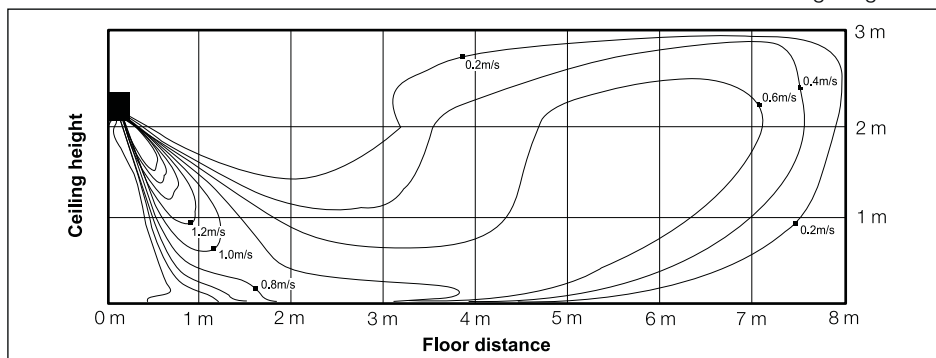
(2) Cooling temperature distribution

◆ Discharge angle : 60°



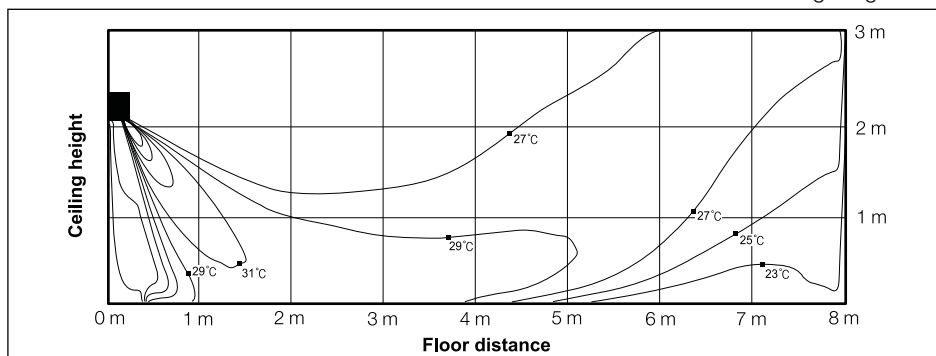
(3) Heating air velocity distribution

◆ Discharge angle : 60°



(4) Heating temperature distribution

◆ Discharge angle : 60°





Specifications

9 Outdoor units

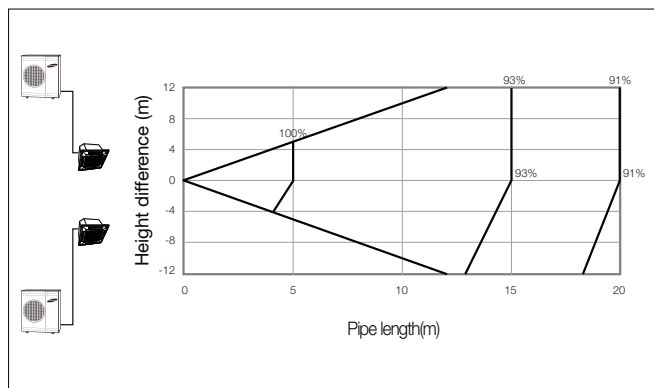
9-1. Capacity correction	150
9-2. Operation limit	157
9-3. Electrical wiring diagram	159
9-4. Sound pressure level	165
9-5. Cycle diagram.....	170
9-6. Dimensional drawing.....	171

9 Outdoor units

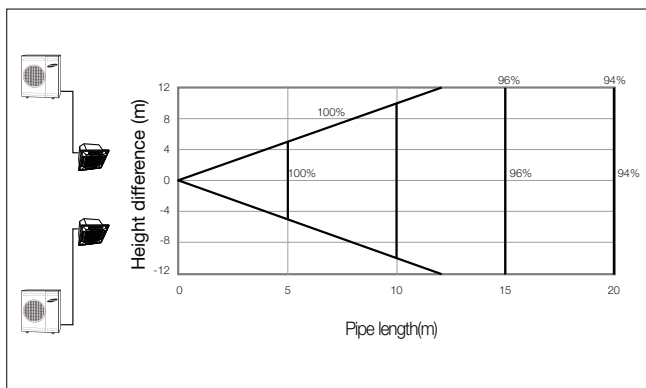
9-1. Capacity correction

1) UH026/035EAV1

(1) Cooling

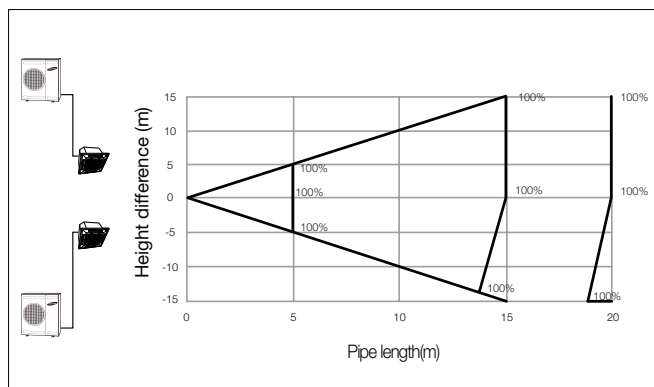


(2) Heating

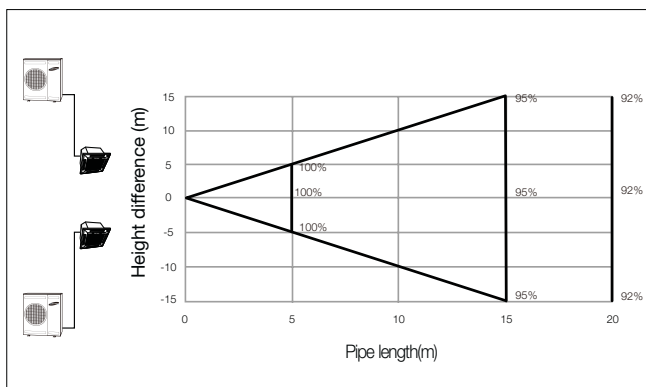


2) RC026DHXEA

(1) Cooling

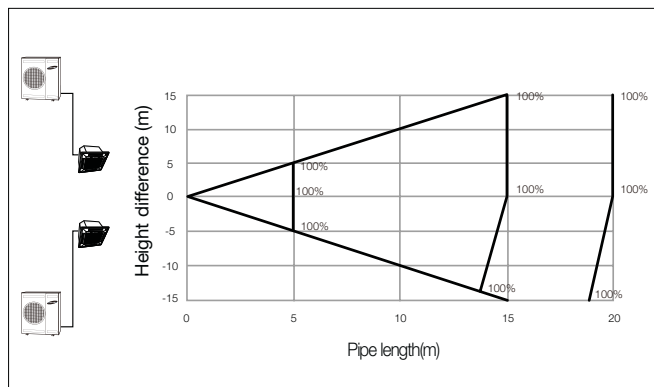


(2) Heating

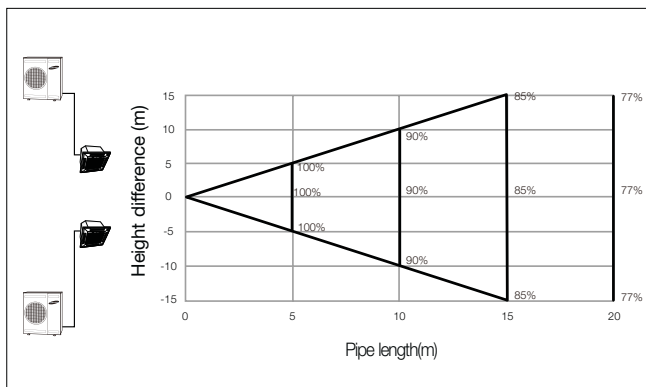


3) RC035DHXEA

(1) Cooling

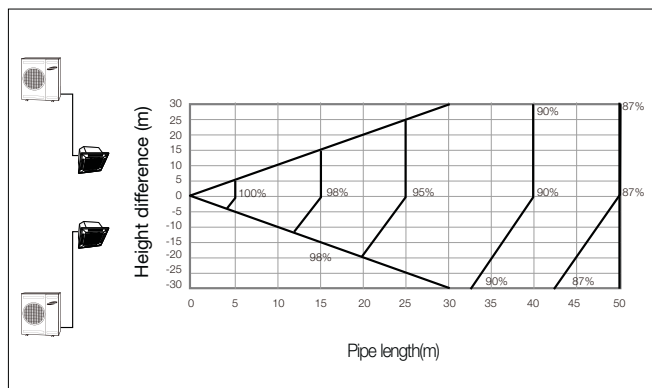


(2) Heating

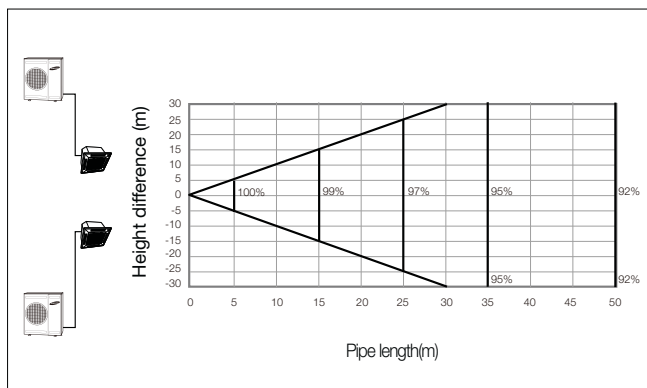


4) UH052EAV1, RC052/071SHXEC

(1) Cooling

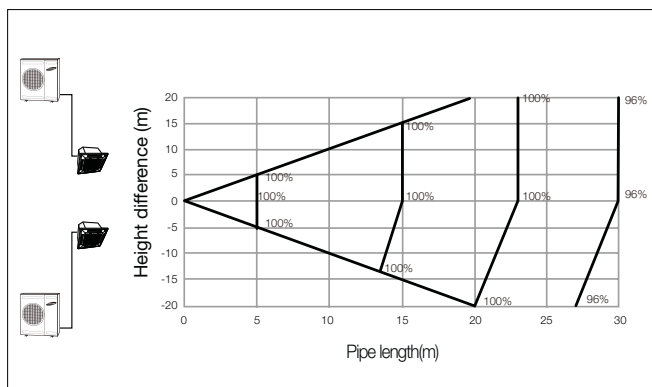


(2) Heating

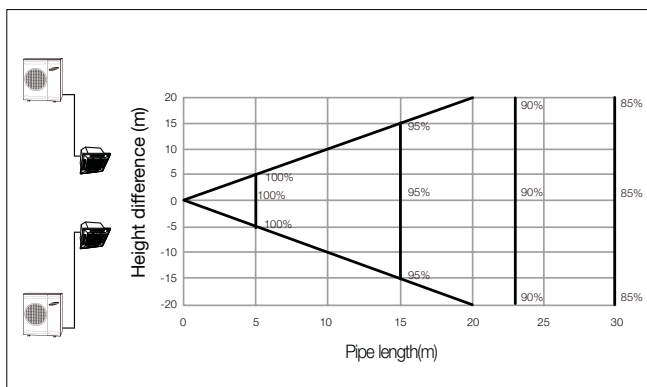


5) RC052DHXEA

(1) Cooling

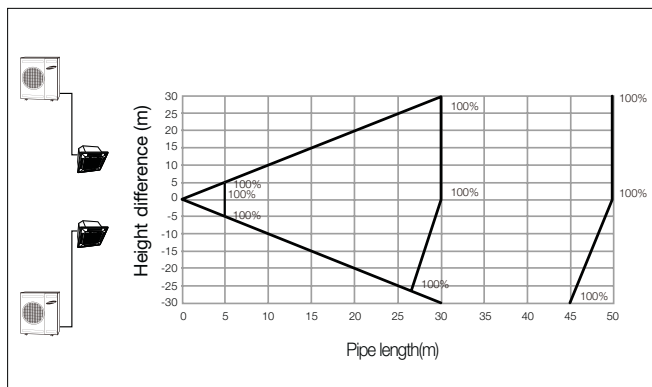


(2) Heating

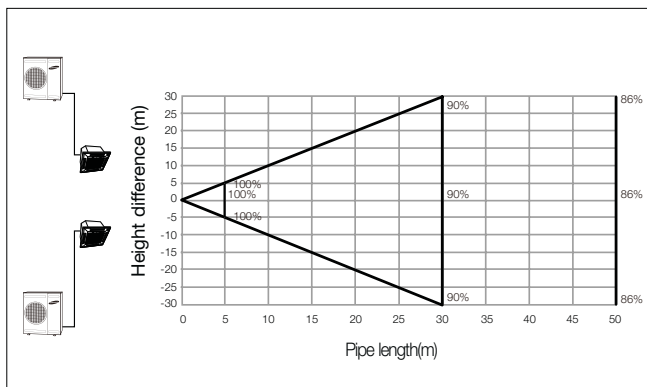


6) RC060DHXEA

(1) Cooling



(2) Heating

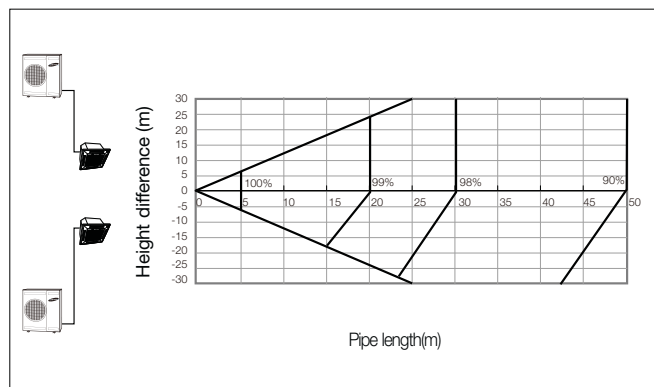


9 Outdoor units

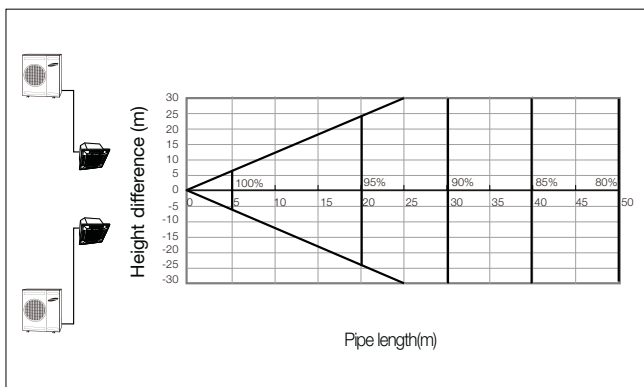
9-1. Capacity correction

7) RC071DHXEA

(1) Cooling

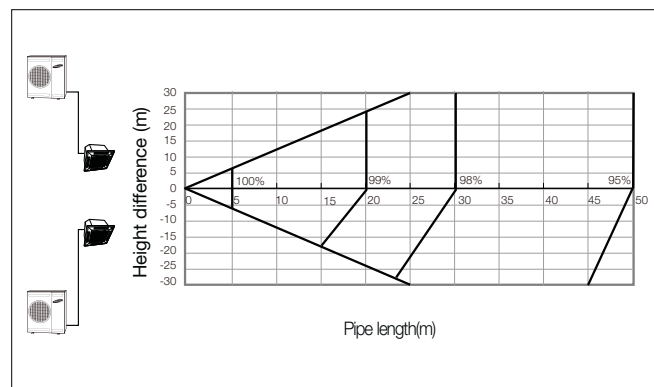


(2) Heating

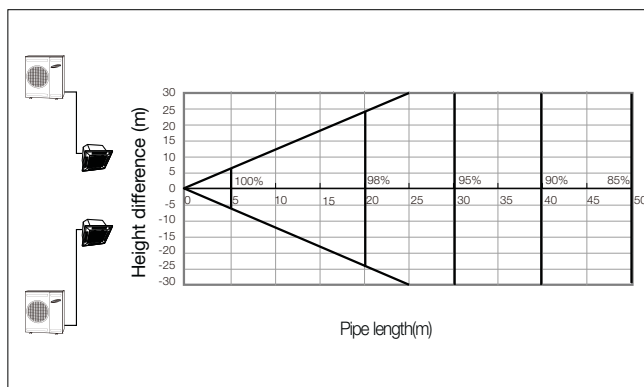


8) RC071PHXEA

(1) Cooling

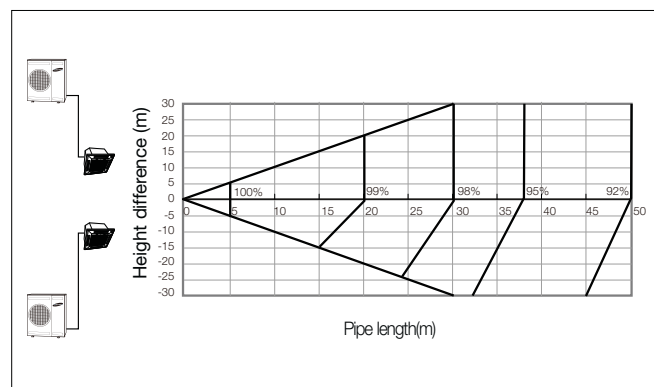


(2) Heating

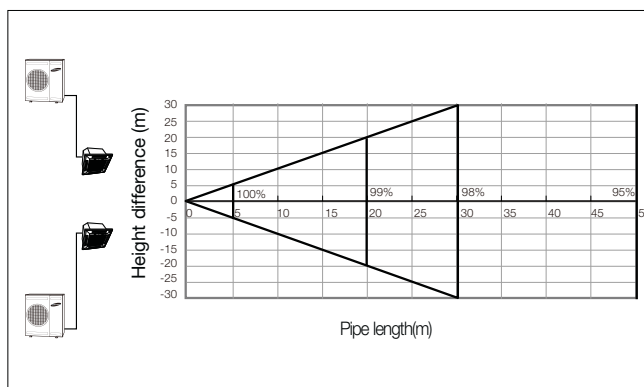


9) RC090DHXEA

(1) Cooling

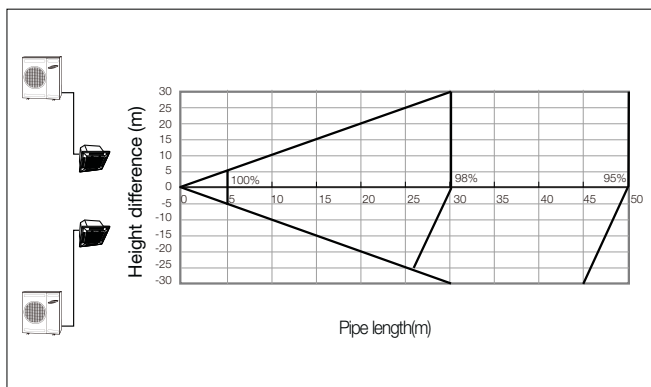


(2) Heating

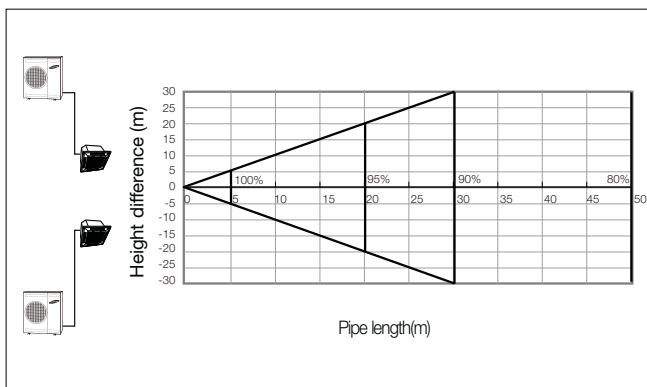


10) RC090PHXEA

(1) Cooling

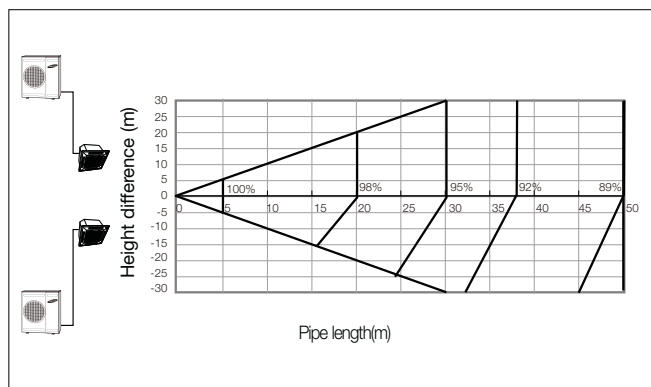


(2) Heating

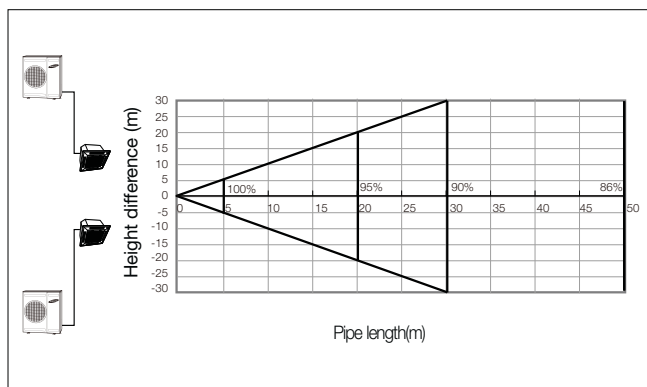


11) RC100DHXEA/RC100DHXGA

(1) Cooling

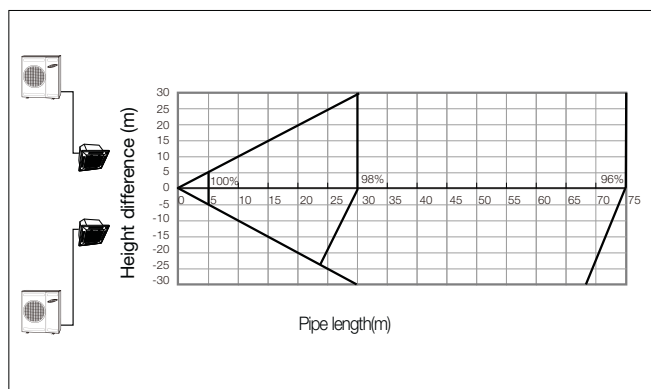


(2) Heating

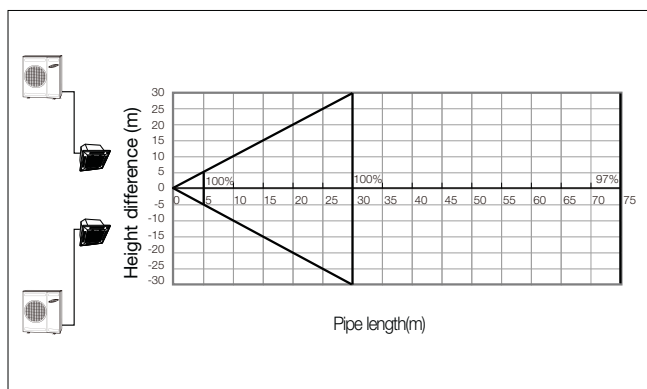


12) RC100PHXEA/RC100PHXGA

(1) Cooling



(2) Heating

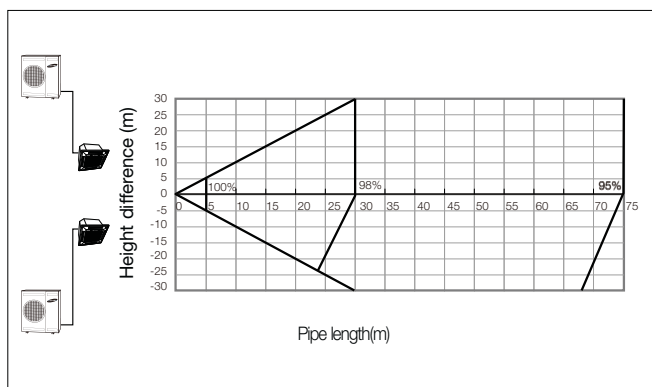


9 Outdoor units

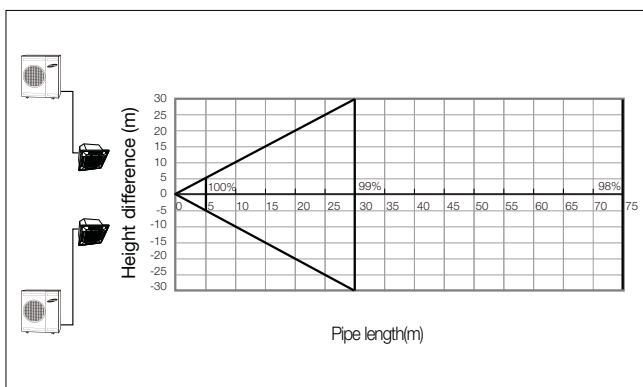
9-1. Capacity correction

13) RC100ZHxEA

(1) Cooling

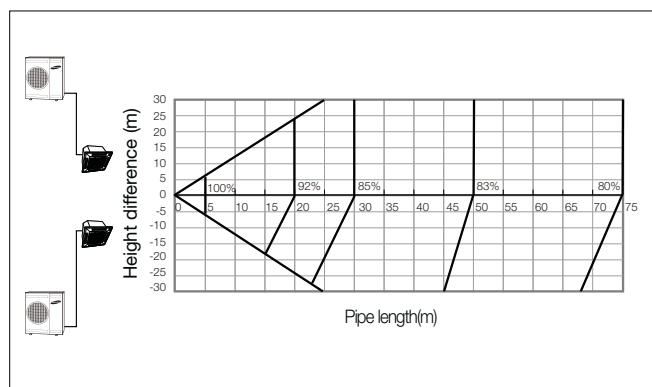


(2) Heating

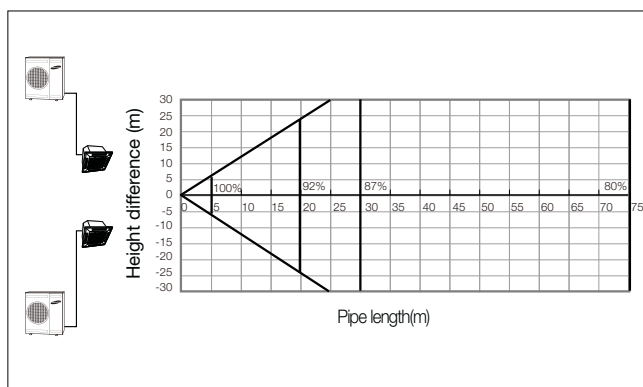


14) RC125DHXEB/RC125DHXGA

(1) Cooling

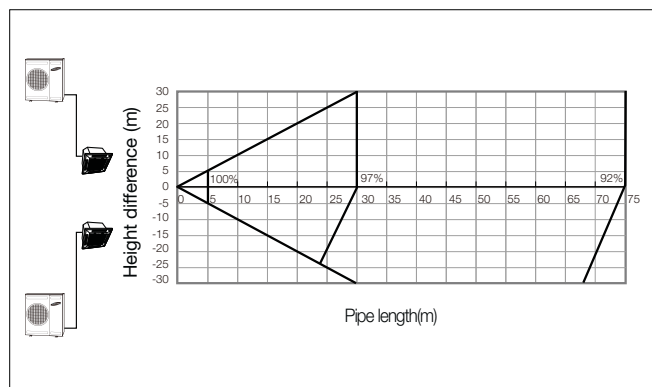


(2) Heating

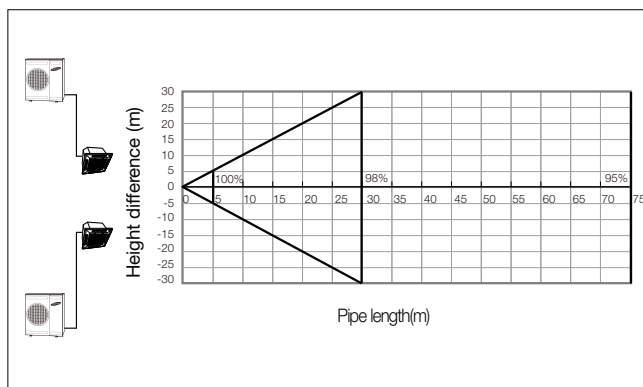


15) RC125PHxEA/RC125PHXGA

(1) Cooling

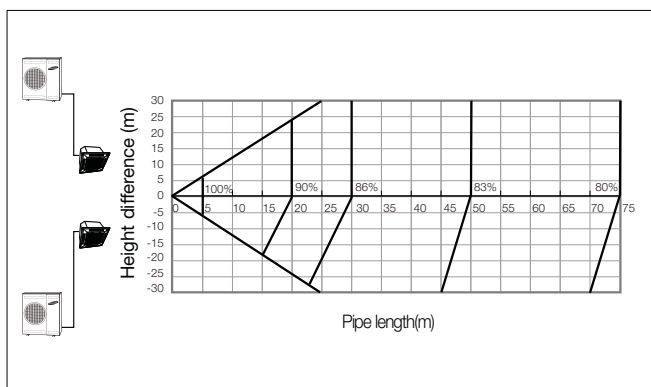


(2) Heating

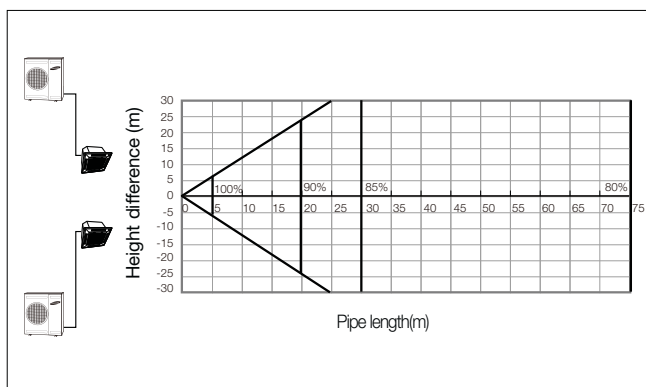


16) RC140DHXEB/RC140DHXGA

(1) Cooling

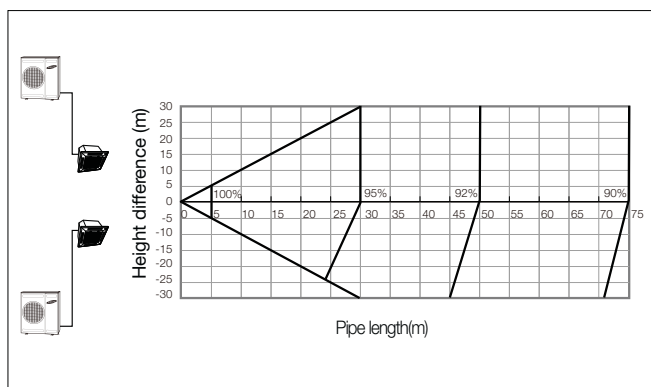


(2) Heating

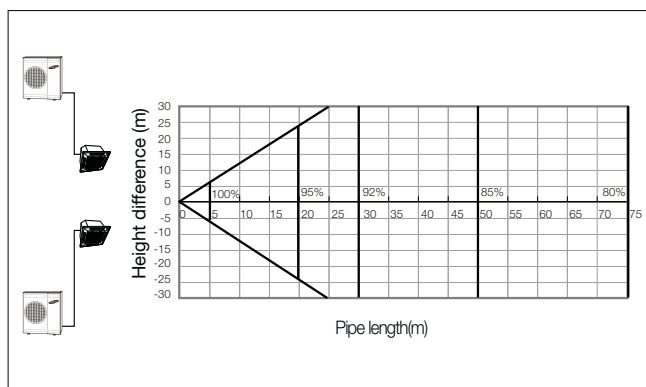


17) RC140PHXEA/RC140PHXGA

(1) Cooling

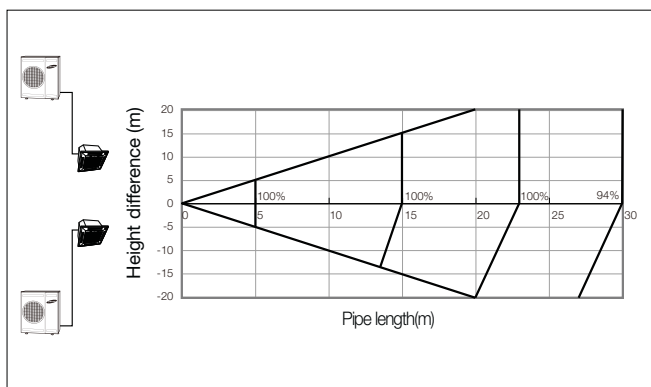


(2) Heating

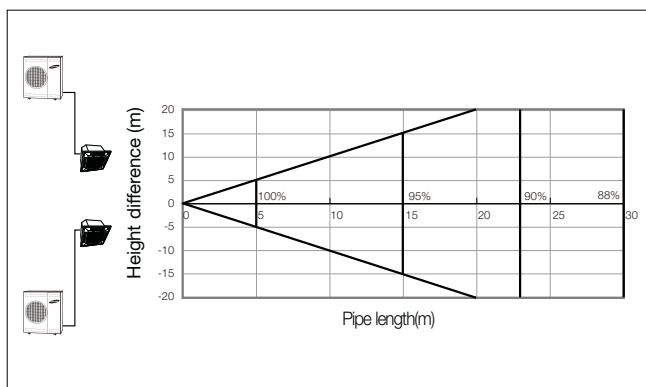


18) RC052SHXEA

(1) Cooling



(2) Heating

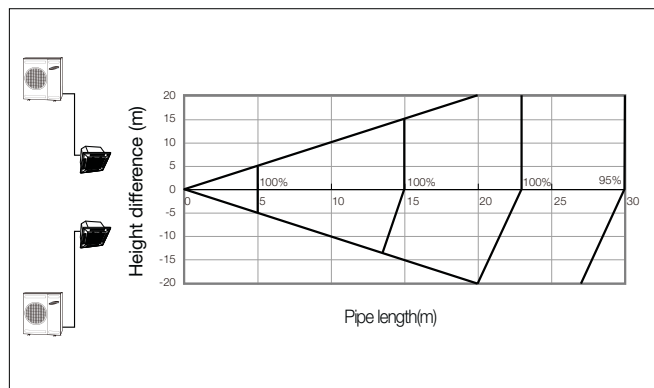


9 Outdoor units

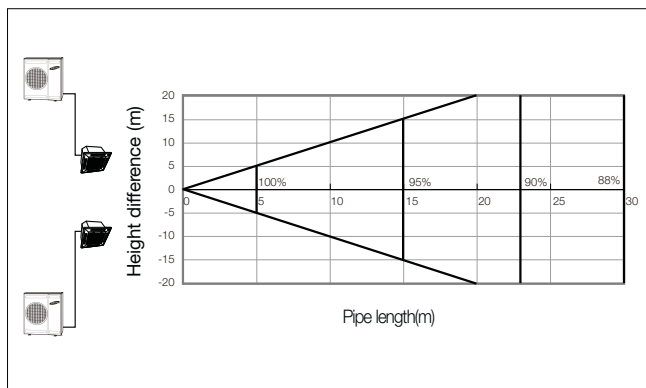
9-1. Capacity correction

19) RC071SHXEA

(1) Cooling

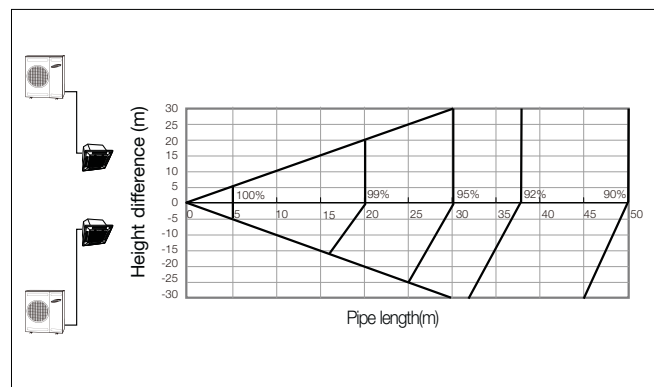


(2) Heating

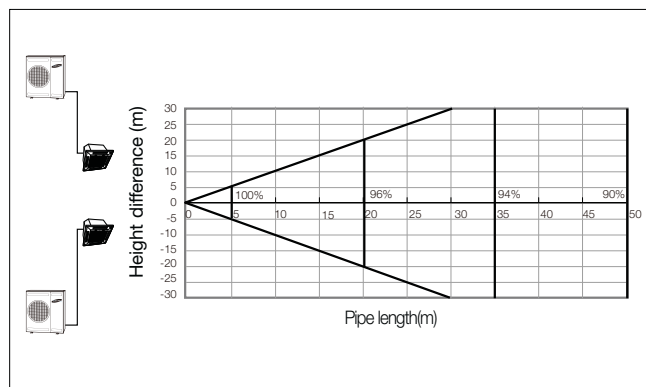


20) RC090SHXEA

(1) Cooling

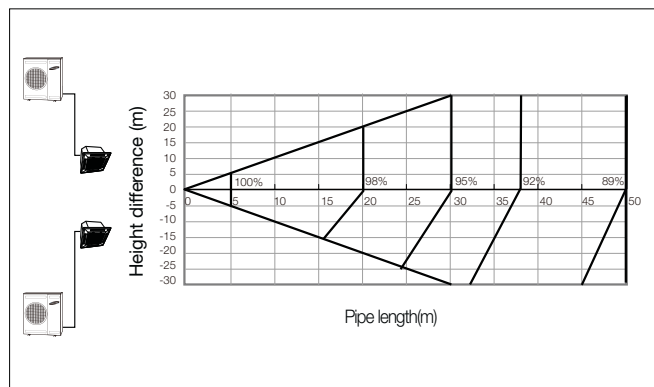


(2) Heating

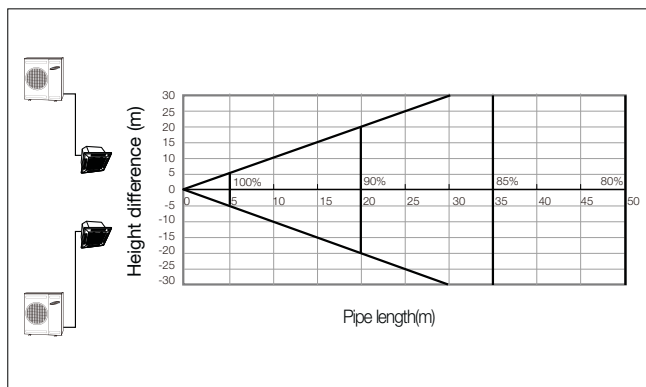


21) RC100SHXEA

(1) Cooling



(2) Heating



9-2. Operation limit

1) UH026/035EAV1

Mode	Outdoor	Indoor	Indoor
	Temperature (DB)	Temperature (DB)	Humidity (RH)
Cooling	-10°C ~ 43°C	18°C ~ 32°C	80% or less
Heating	-15°C ~ 24°C	27°C or less	
Drying	-10°C ~ 43°C	18°C ~ 32°C	

2) RC026/035DHXEA

Mode	Outdoor	Indoor	Indoor
	Temperature (DB)	Temperature (DB)	Humidity (RH)
Cooling	-10°C ~ 46°C	18°C ~ 32°C	80% or less
Heating	-15°C ~ 24°C	27°C or less	
Drying	-10°C ~ 46°C	18°C ~ 32°C	

3) UH052EAV1

Mode	Outdoor	Indoor	Indoor
	Temperature (DB)	Temperature (DB)	Humidity (RH)
Cooling	-15°C ~ 43°C	18°C ~ 32°C	80% or less
Heating	-20°C ~ 24°C	27°C or less	
Drying	-15°C ~ 43°C	18°C ~ 32°C	

4) RC052DHXEA

Mode	Outdoor	Indoor	Indoor
	Temperature (DB)	Temperature (DB)	Humidity (RH)
Cooling	-15°C ~ 46°C	18°C ~ 32°C	80% or less
Heating	-15°C ~ 24°C	27°C or less	
Drying	-15°C ~ 46°C	18°C ~ 32°C	

9-2. Operation limit

5) RC060DHXEA

Mode	Outdoor	Indoor	Indoor
	Temperature (DB)	Temperature (DB)	Humidity (RH)
Cooling	-15°C ~ 46°C	18°C ~ 32°C	80% or less
Heating	-20°C ~ 24°C	27°C or less	
Drying	-15°C ~ 46°C	18°C ~ 32°C	

6) RC071/090/100/125/140D(P,Z)HXE*, RC090/100SHXE*

Mode	Outdoor	Indoor	Indoor
	Temperature (DB)	Temperature (DB)	Humidity (RH)
Cooling	-15°C ~ 50°C	18°C ~ 32°C	80% or less
Heating	-20°C ~ 24°C	27°C or less	
Drying	-15°C ~ 50°C	18°C ~ 32°C	

7) RC052/071SHXE*

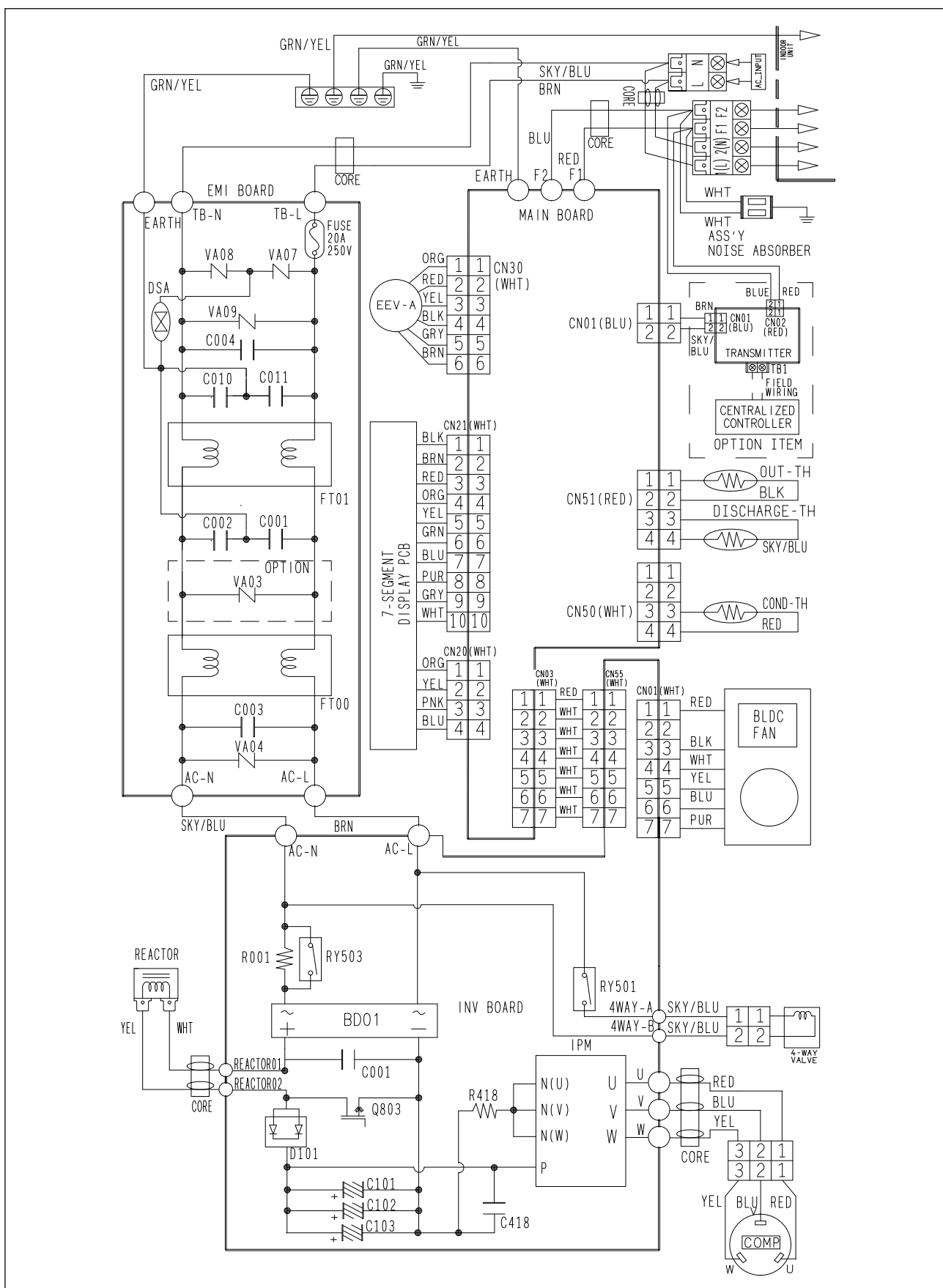
Mode	Outdoor	Indoor	Indoor
	Temperature (DB)	Temperature (DB)	Humidity (RH)
Cooling	-5°C ~ 43°C	18°C ~ 32°C	80% or less
Heating	-15°C ~ 24°C	27°C or less	
Drying	-5°C ~ 43°C	18°C ~ 32°C	

 Note

- ◆ The standardized temperature for heating is 7°C DB. If the outdoor temperature drops to 0°C DB or below, the heating capacity can be reduced depending on the temperature condition.
If the cooling operation is used at over 32°C DB, it does not cool at its full capacity.
- ◆ The use of the air conditioner at a relative humidity above the expected one (80%) may cause the formation of condensate and the leakage of water drops on the floor.

9-3. Electrical wiring diagram

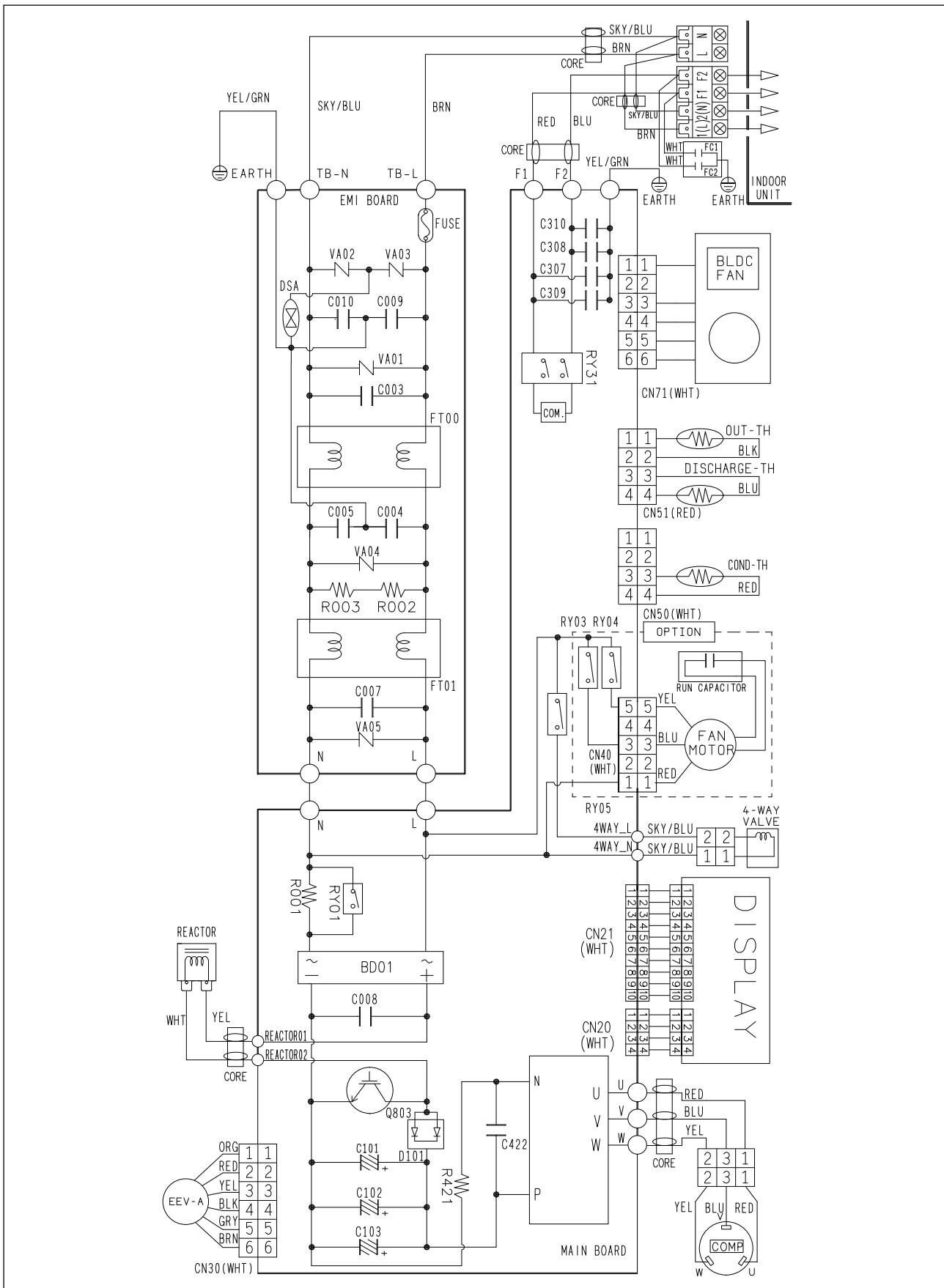
1) UH026/035EAV1



9

9-3. Electrical wiring diagram

2) UH052EAV1

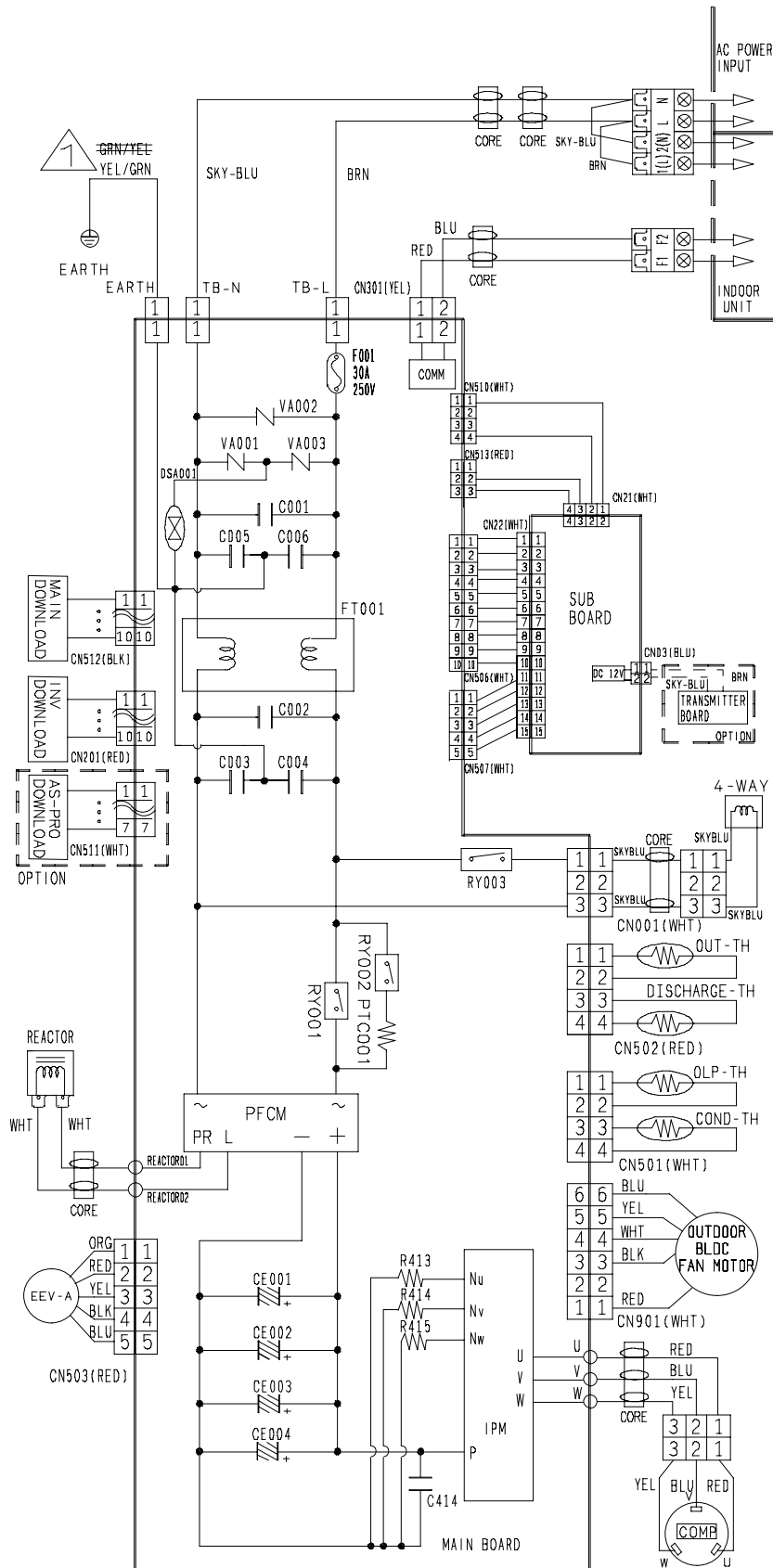


Specifications

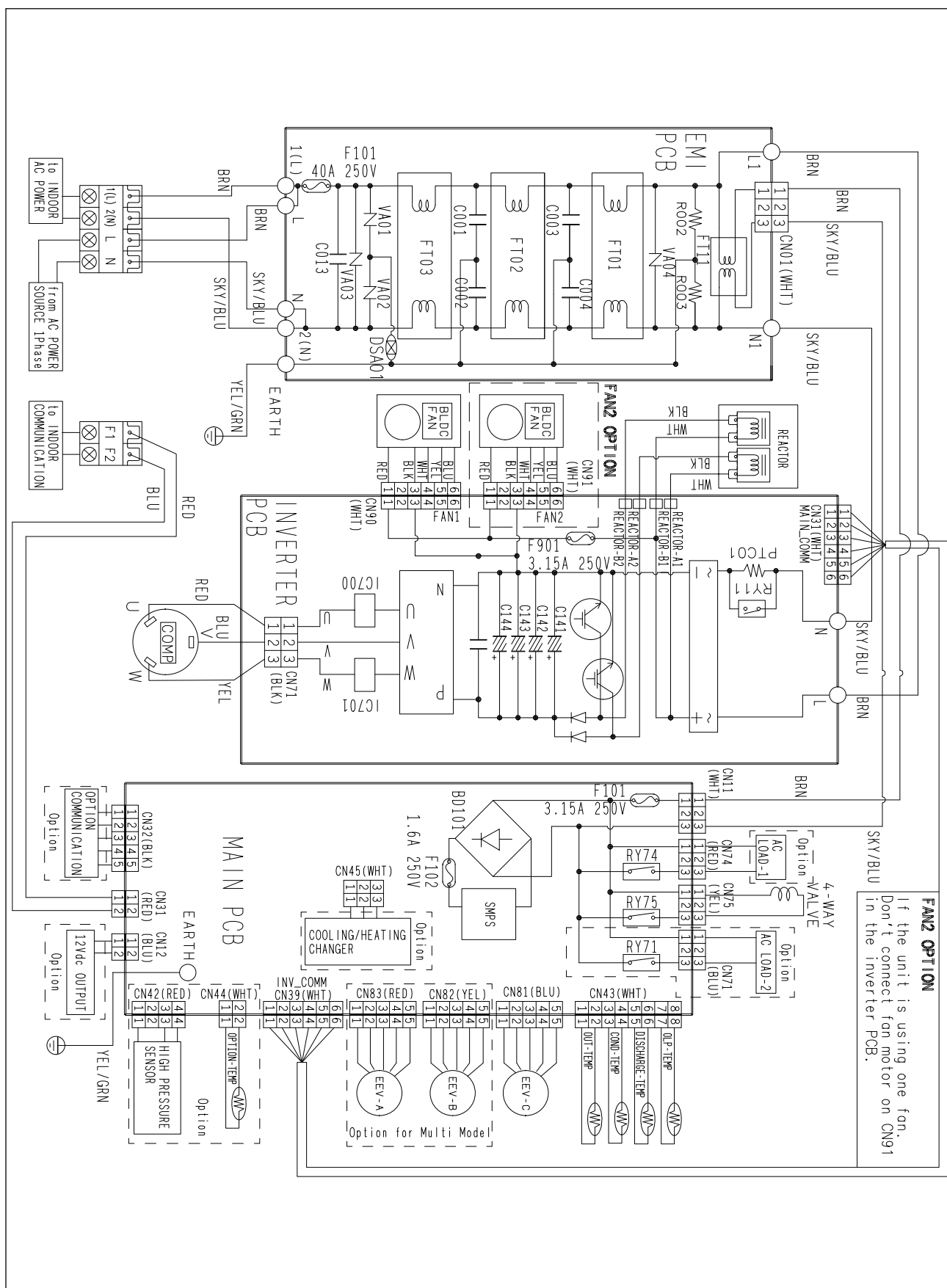


9-3. Electrical wiring diagram

4) RC060DHXEA, RC071D(P,S)HXEA



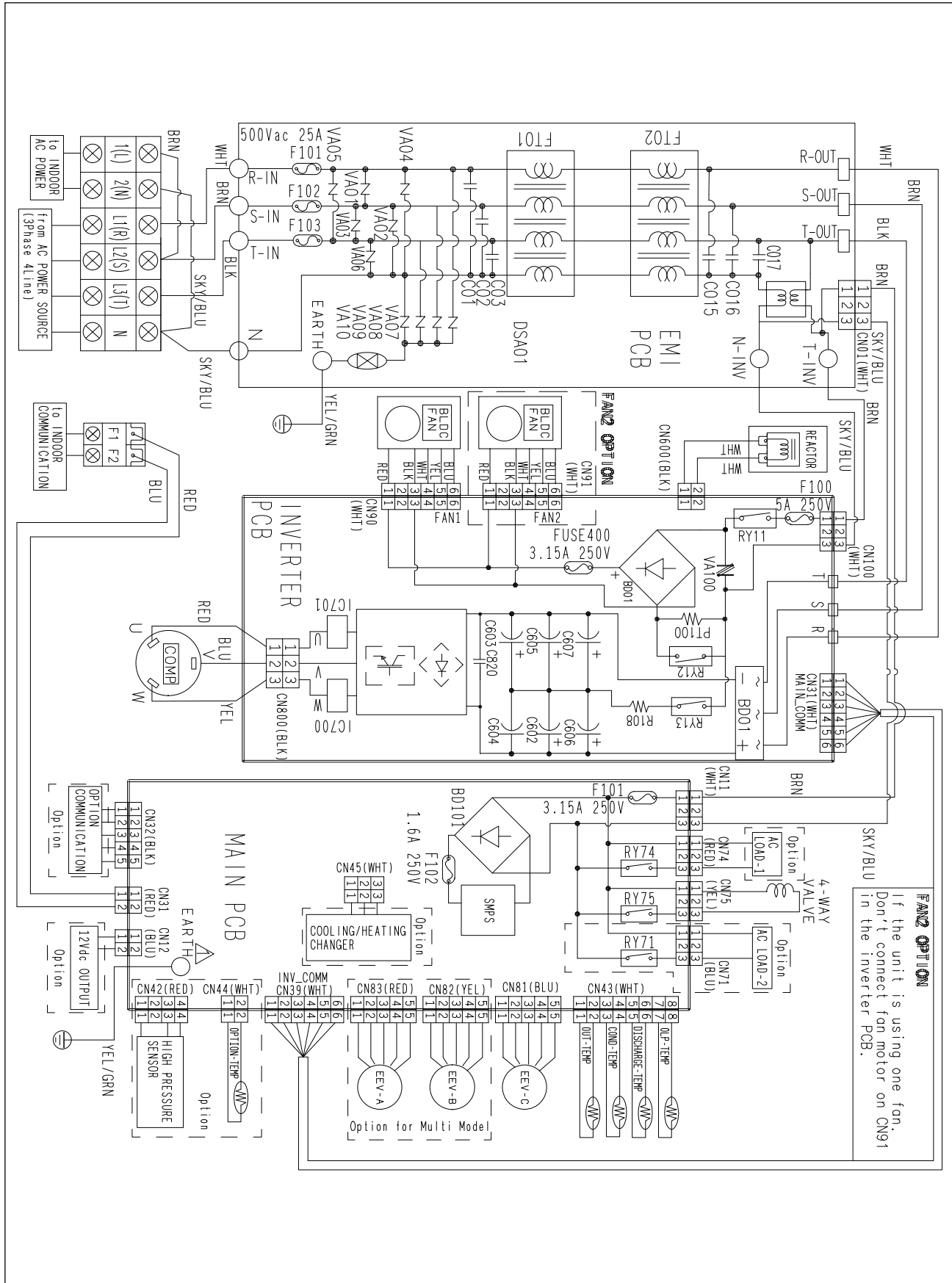
5) RC090/100/125/140D(P,Z,S)HXEA



9

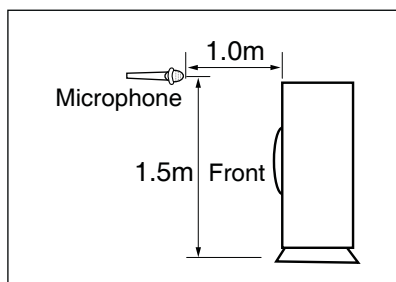
9-3. Electrical wiring diagram

6) RC100/125/140D(P)HXGA



9-4. Sound pressure level

1) Operation sound level



Unit: dB(A)

Model	Cooling	Heating
UH026EAV1	47	47
UH035EAV1	47	47
UH052EAV1	49	49
RC052SHXEA	49	49
RC071SHXEA	52	52
RC026DHXEA	46	47
RC035DHXEA	47	48
RC052DHXEA	48	49
RC060DHXEA	49	50
RC071DHXEA	49	51
RC071PHXEA	49	51
RC090DHXEA	51	52
RC090PHXEA	52	53
RC100DHXEA	52	53

Unit: dB(A)

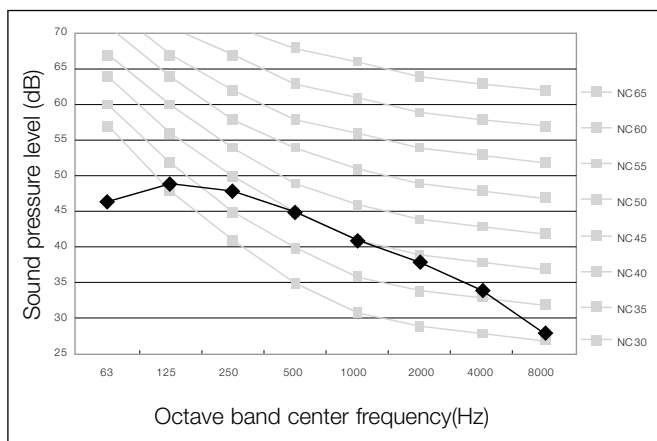
Model	Cooling	Heating
RC100DHXGA	52	53
RC100PHXEA	49	51
RC100PHXGA	49	51
RC100ZHXEA	49	51
RC125DHXEB	51	52
RC125DHXGA	51	52
RC125PHXEA	51	52
RC125PHXGA	51	52
RC140DHXEB	52	54
RC140DHXGA	52	54
RC140PHXEA	51	53
RC140PHXGA	51	53
RC090SHXEA	52	53
RC100SHXEA	52	53

✓ Note

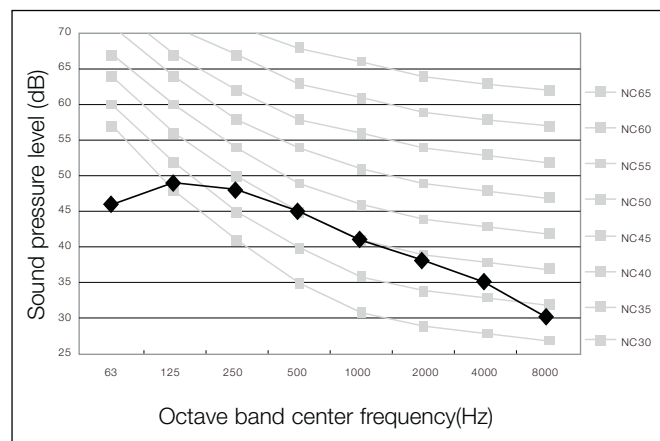
- ◆ These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- ◆ Operation sound level may differ depending on operation and ambient conditions.

2) NC curves

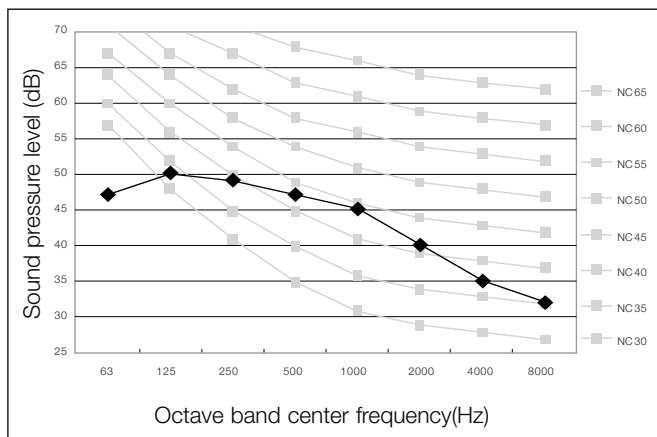
(1) UH026EAV1



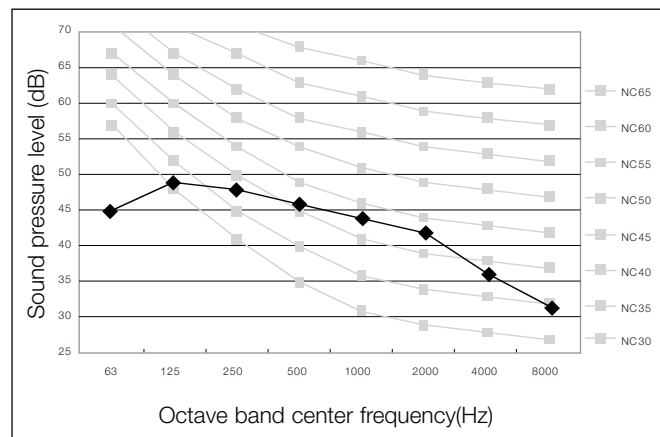
(2) UH035EAV1



(3) UH052EAV1



(4) RC052SHXEA

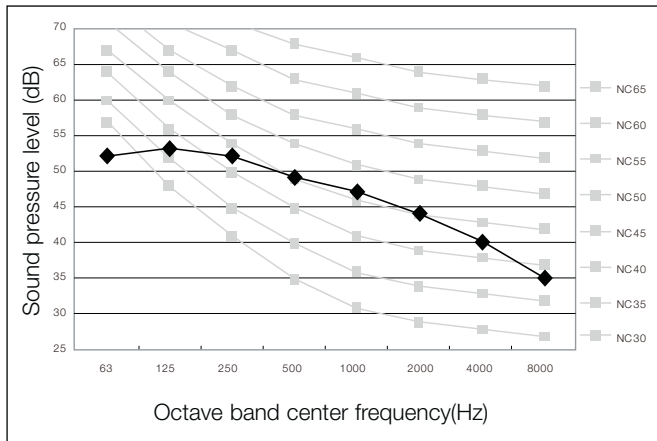


9 Outdoor units

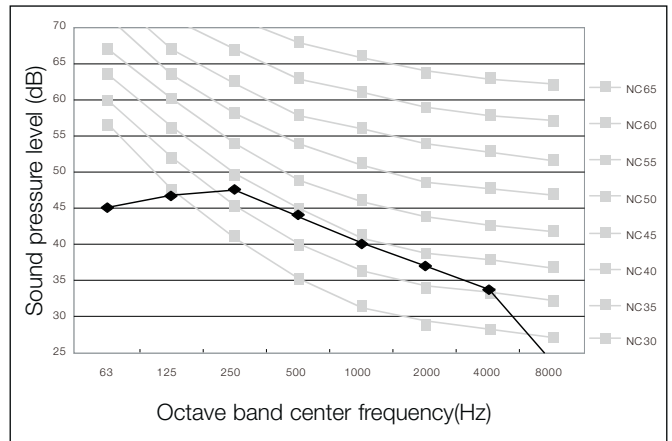
9-4. Sound pressure level

2) NC curves

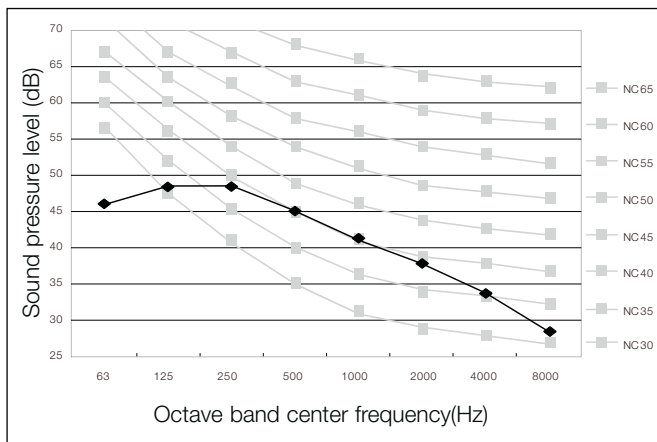
(5) RC071SHXEA



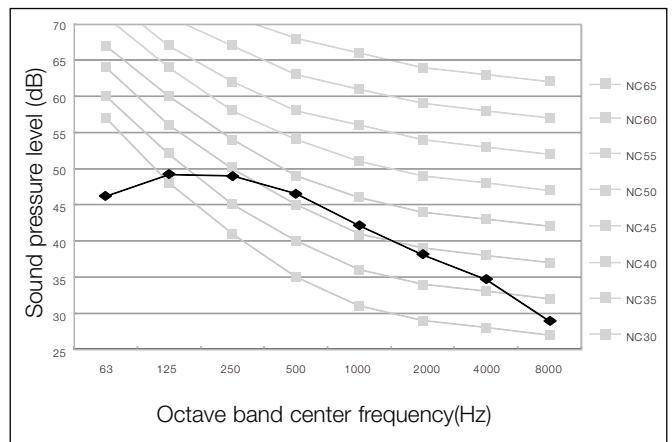
(6) RC026DHXEA



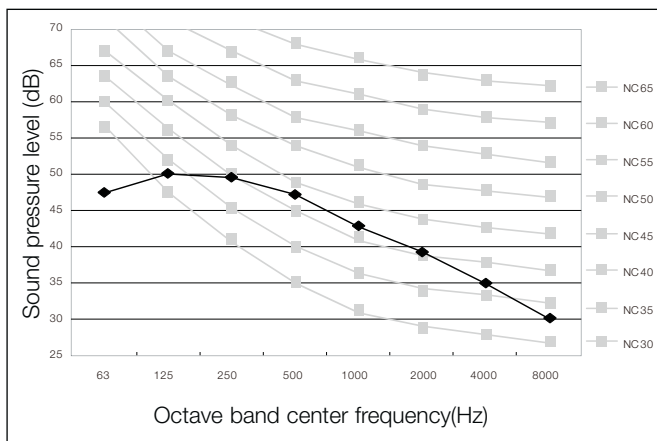
(7) RC035DHXEA



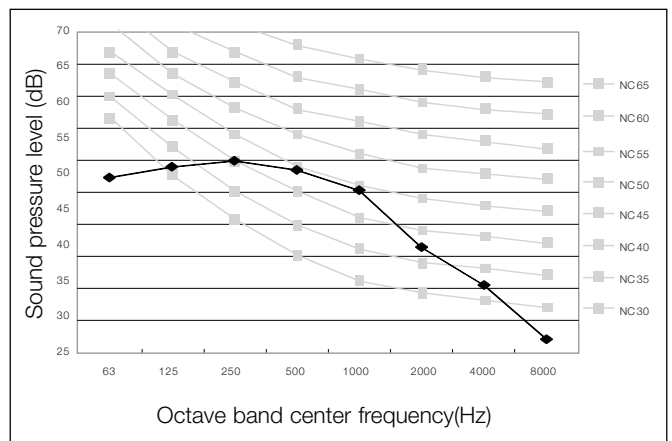
(8) RC052DHXEA



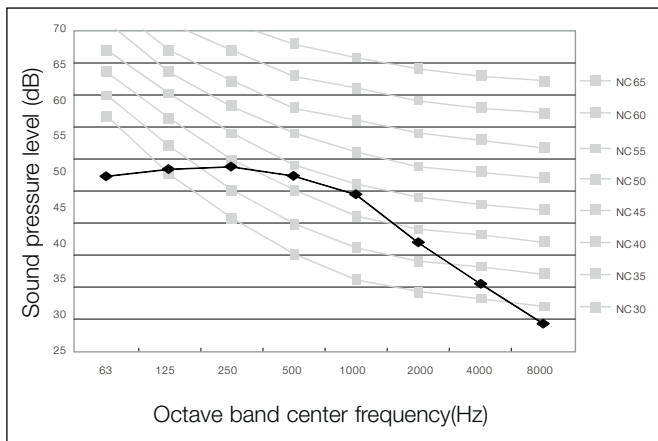
(9) RC060DHXEA



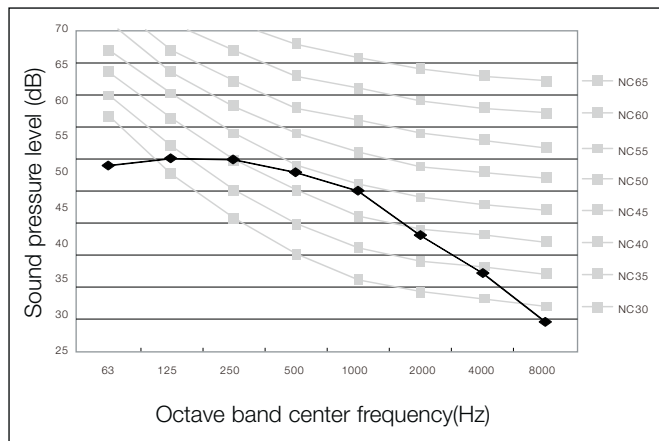
(10) RC071DHXEA



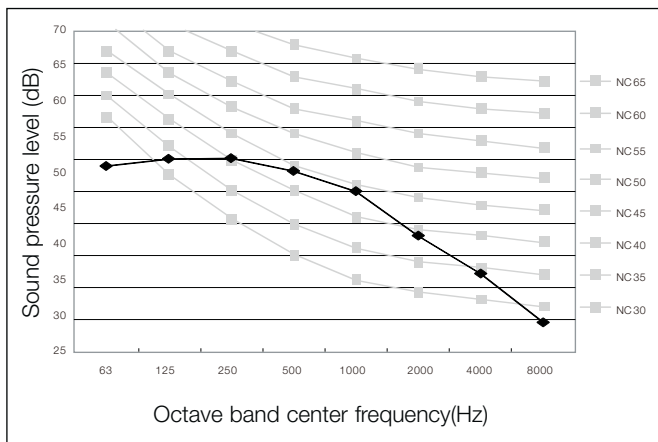
(11) RC071PHXEA



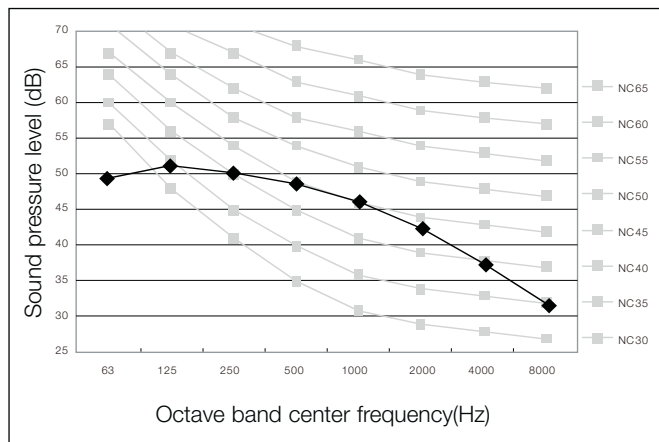
(12) RC090DHXEA



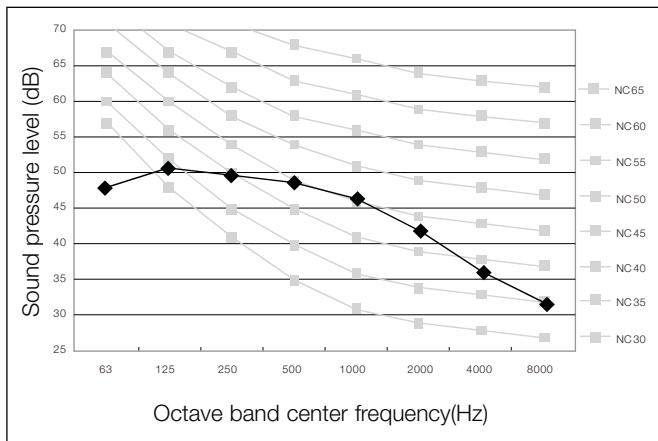
(13) RC090PHXEA



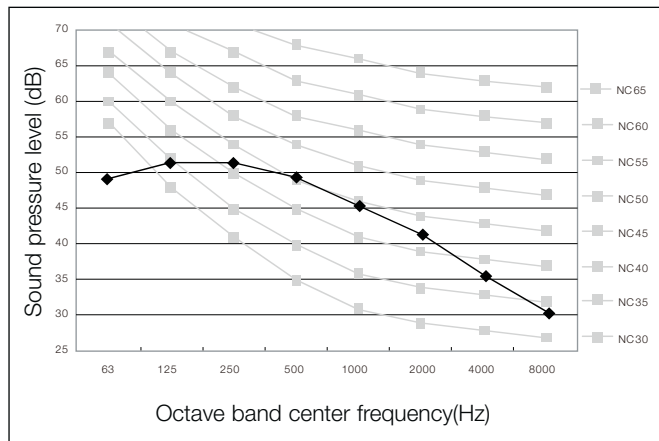
(14) RC100DHXEA



(15) RC100DHXGA



(16) RC100PHXEA

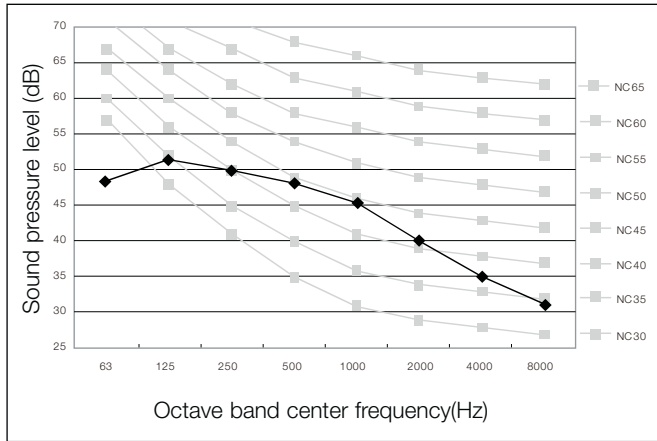


9 Outdoor units

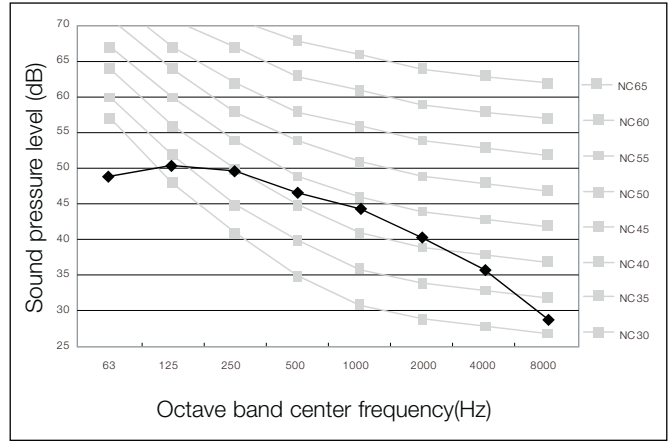
9-4. Sound pressure level

2) NC curves

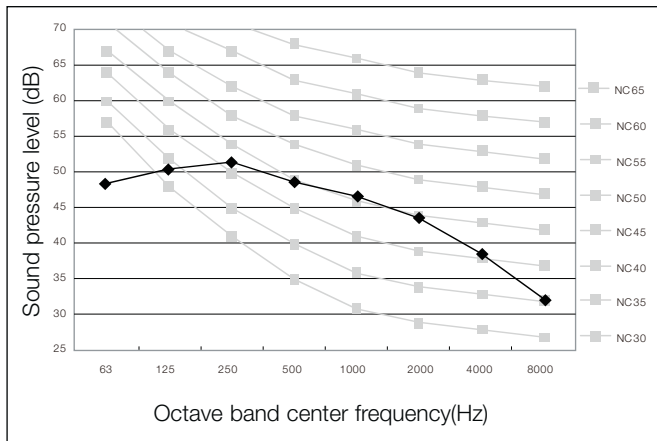
(17) RC100PHXGA



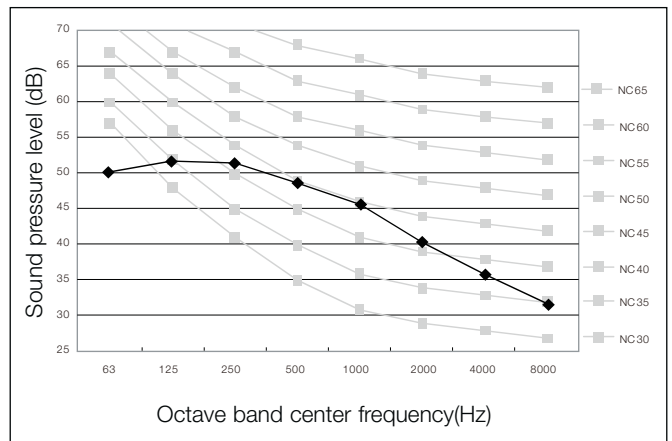
(18) RC100ZHXEA



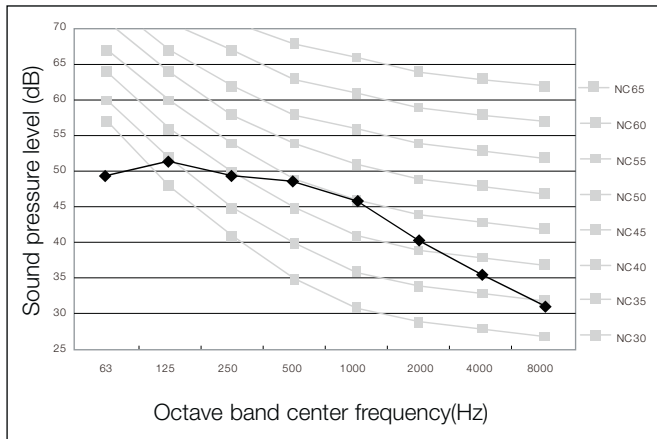
(19) RC125DHXEB



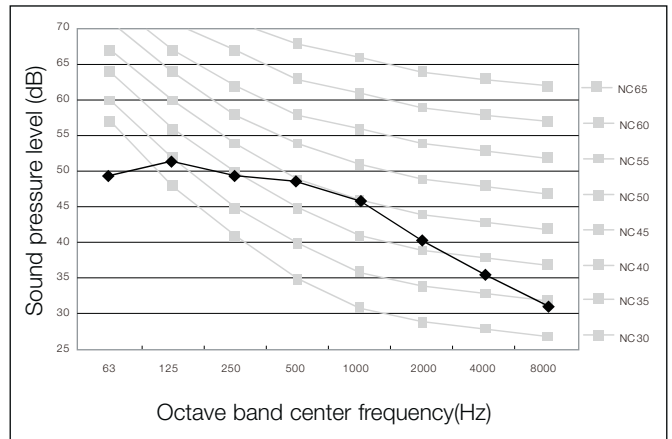
(20) RC125DHXGA



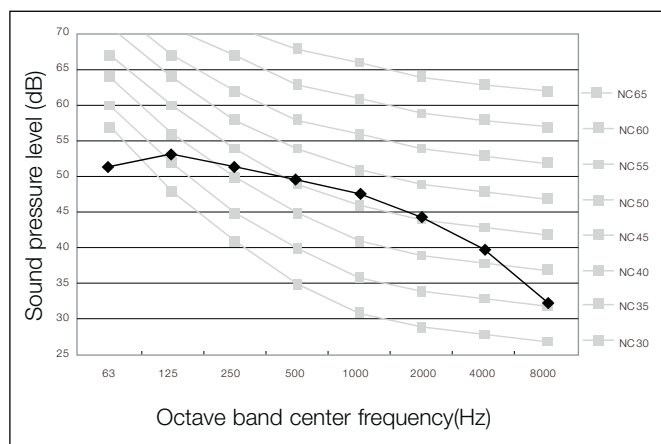
(21) RC125PHXEA



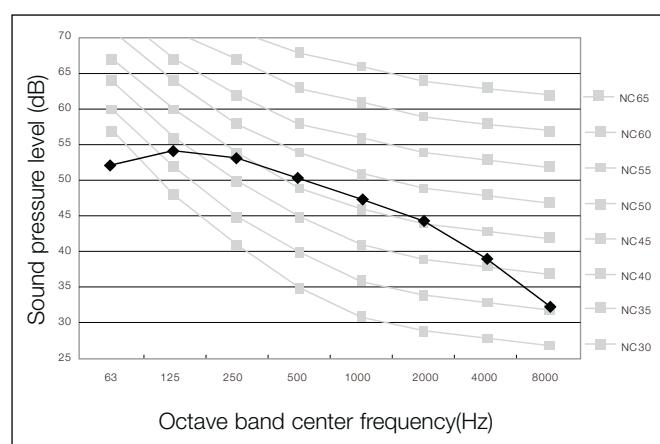
(22) RC125PHXGA



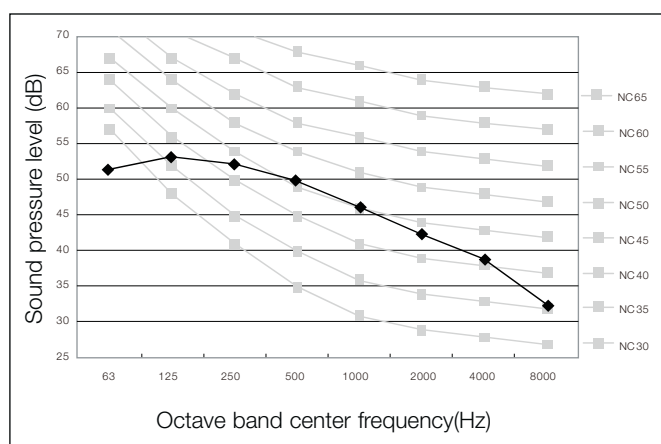
(23) RC140DHXEB



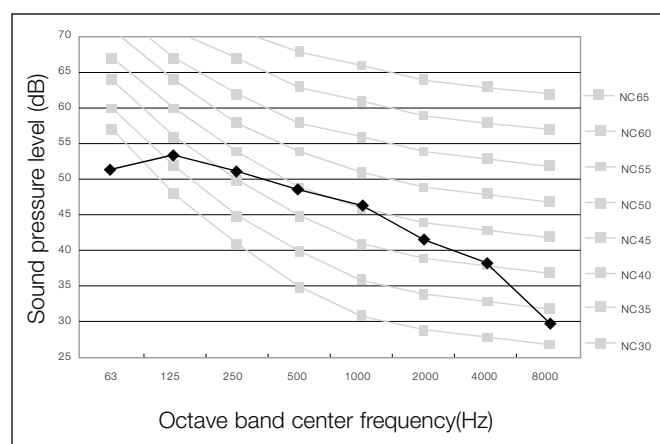
(24) RC140DHXGA



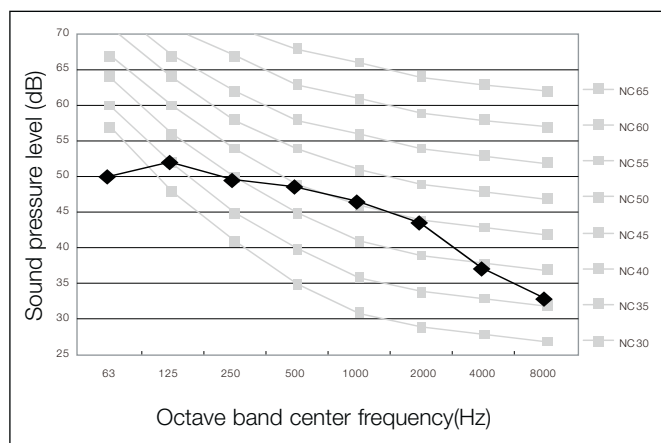
(25) RC140PHXEA



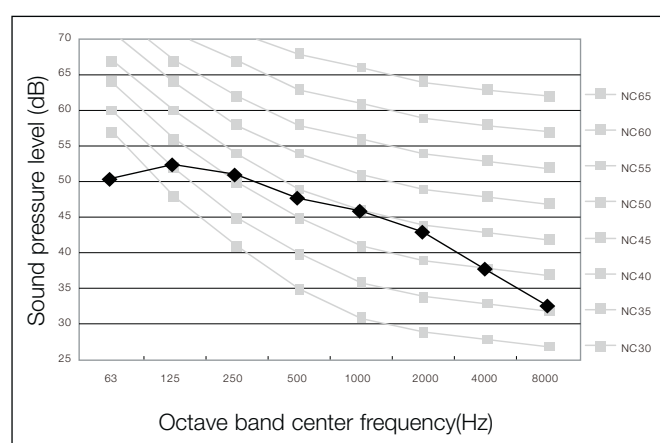
(26) RC140PHXGA



(27) RC090SHXEA

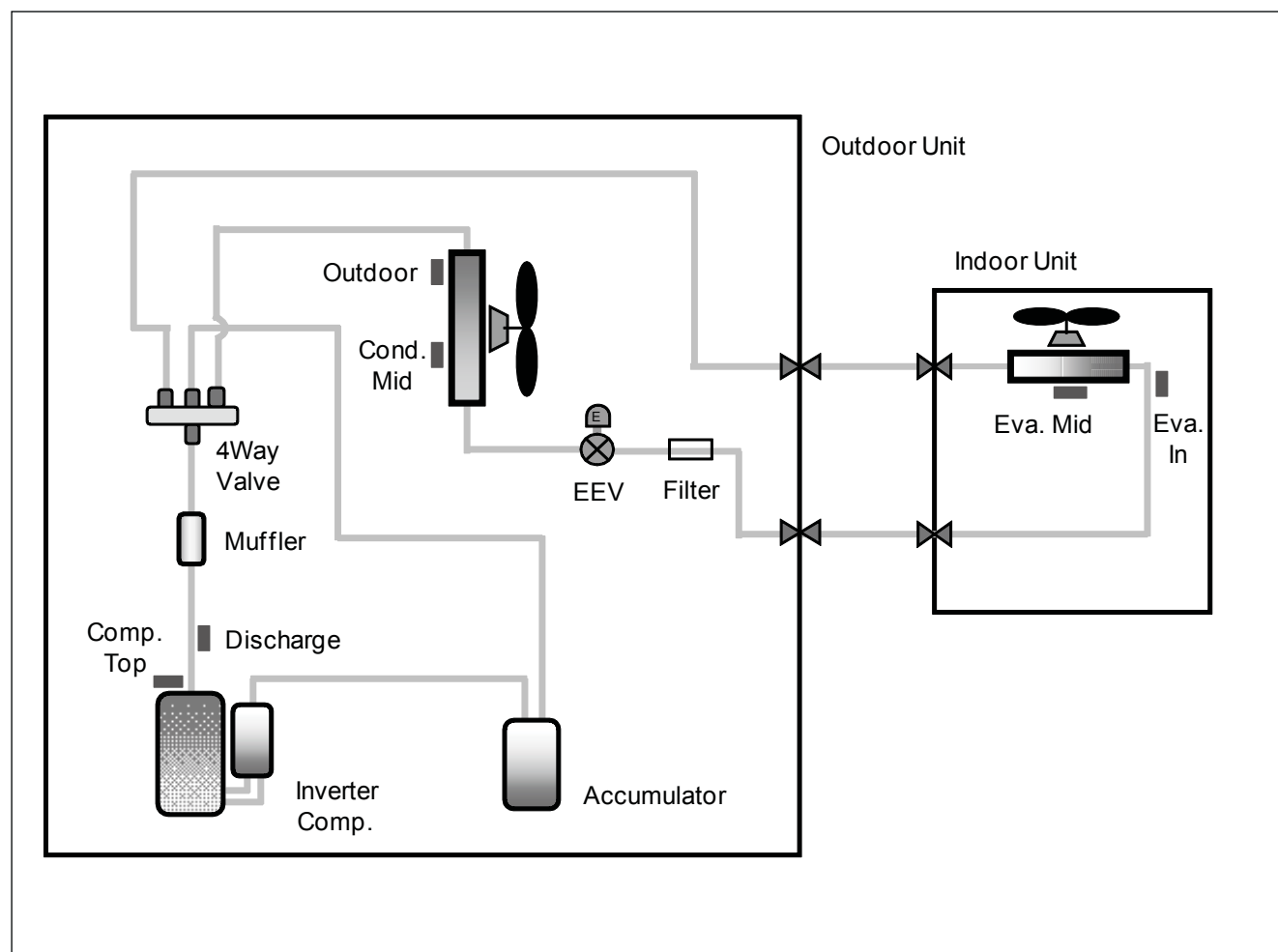


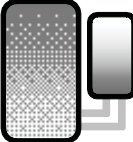
(28) RC100SHXEA



9 Outdoor units

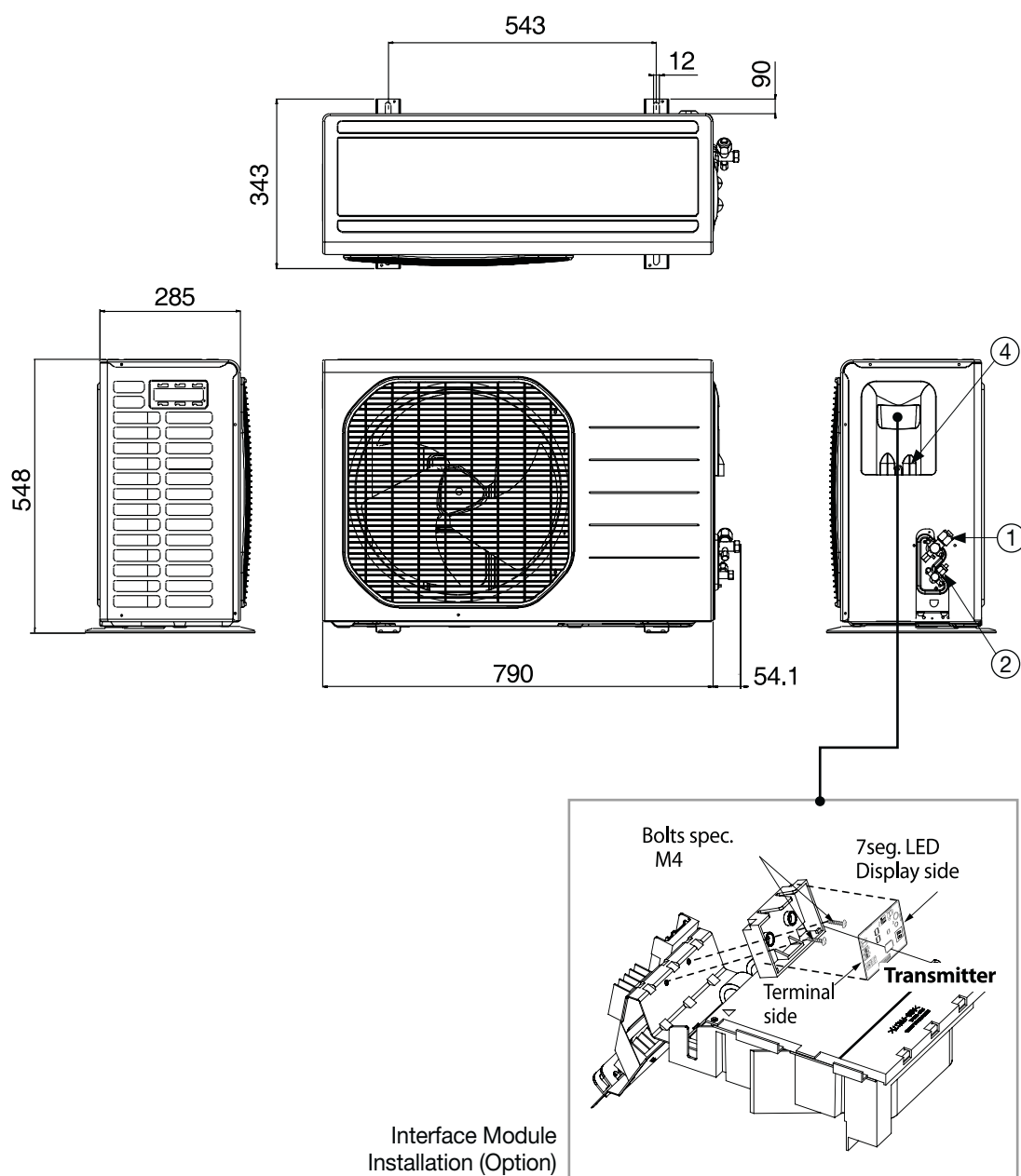
9-5. Cycle diagram



Category			Description	
1	Sensor	Temperature		Temperature sensor
2	Valve	Expansion		Electronic Expansion Valve (EEV)
		Reversing		4Way valve (Reversing valve)
		Service		Service valve
3	Others	Compressor		BLDC Rotary Compressor
		Accumulator		Accumulator
		Heat Exchanger		Condensing or Evaporating unit
		Filter		Filter

9-6. Dimensional drawing

1) UH026/035EAV1

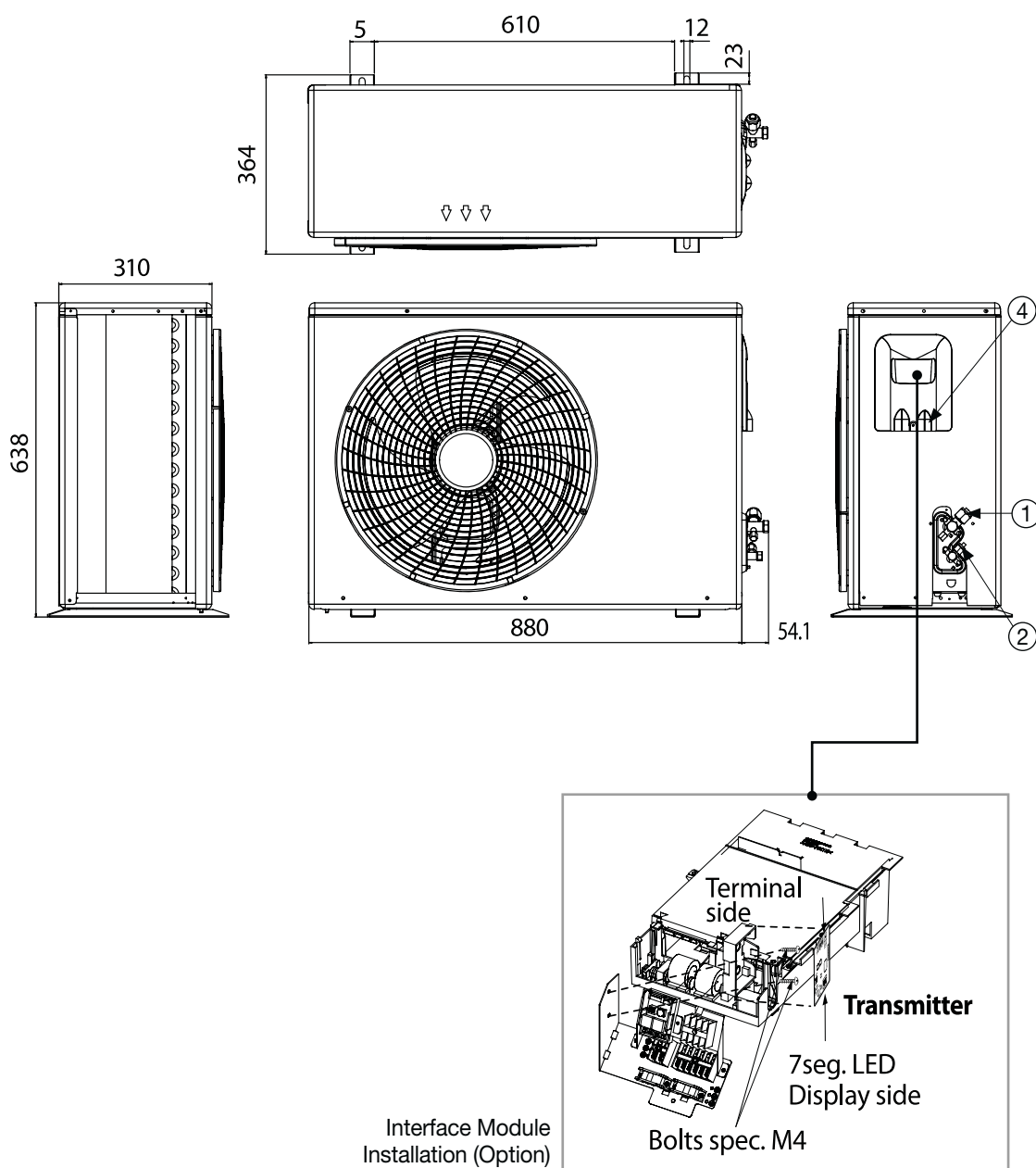


No.	Name		Description	
			2.6kW	3.5kW
①	Gas Ref. Pipe	Ø, mm (inch)	9.52 (3/8)	
②	Liquid Ref. Pipe	Ø, mm (inch)	6.35 (1/4)	
③	Condensate Drain Holes	Ø, mm	20 x 1	
④	Power & Communication Wiring Holes	Ø, mm	-	

9 Outdoor units

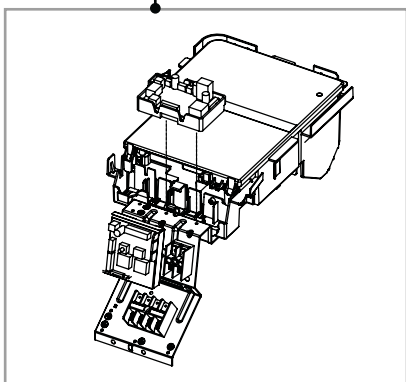
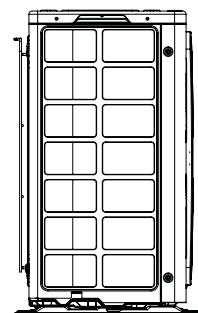
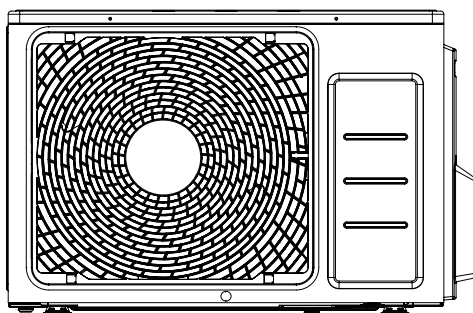
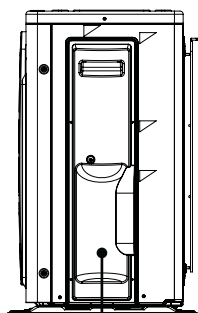
9-6. Dimensional drawing

2) UH052EAV1, RC071SHXEA

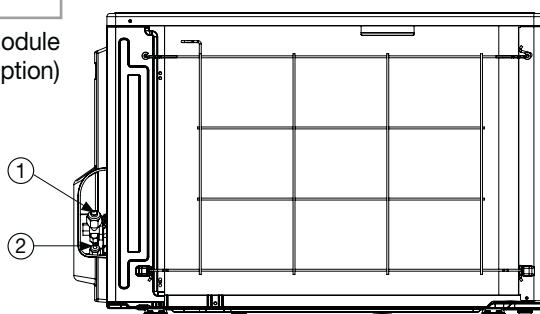
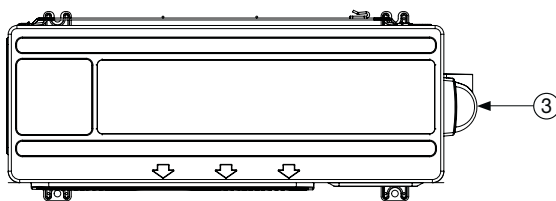


No.	Name		Description	
			5.2kW	7.0kW
①	Gas Ref. Pipe	Ø, mm (inch)	12.70 (1/2)	15.88 (5/8)
②	Liquid Ref. Pipe	Ø, mm (inch)	6.35 (1/4)	6.35 (1/4)
③	Condensate Drain Holes	Ø, mm	20 x 1	
④	Power & Communication Wiring Holes	Ø, mm	-	

3) RC026/035/052DHXEA, RC052SHXEA



Interface Module
Installation (Option)

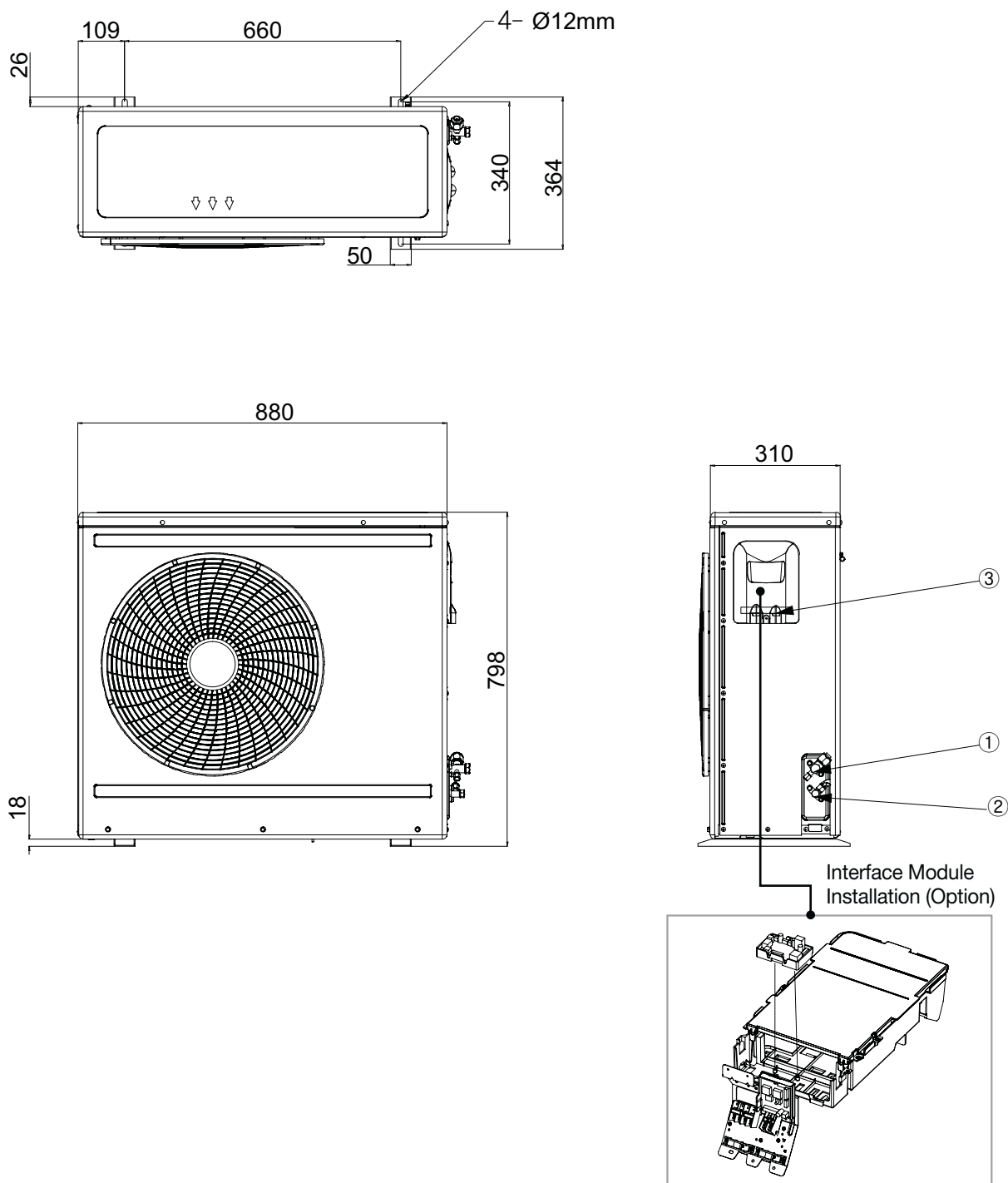


No.	Name		Description		
			2.6kW	3.5kW	5.2kW
①	Gas Ref. Pipe	Ø, mm (inch)	9.52 (3/8)	12.70 (1/2)	
②	Liquid Ref. Pipe	Ø, mm (inch)	6.35 (1/4)	6.35 (1/4)	
③	Condensate Drain Holes	Ø, mm	20 x 1		
④	Power & Communication Wiring Holes	Ø, mm	-		

9 Outdoor units

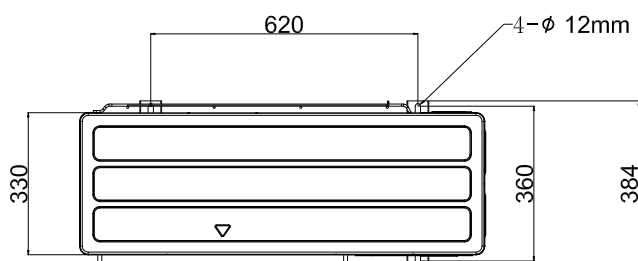
9-6. Dimensional drawing

4) RC060DHXEA, RC071D/PHXEA

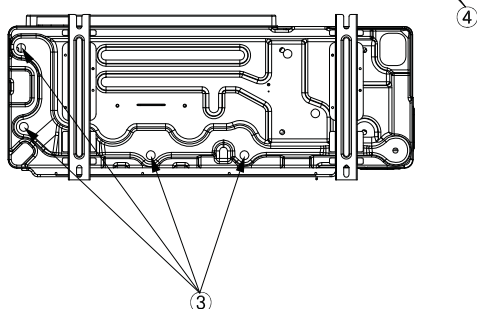
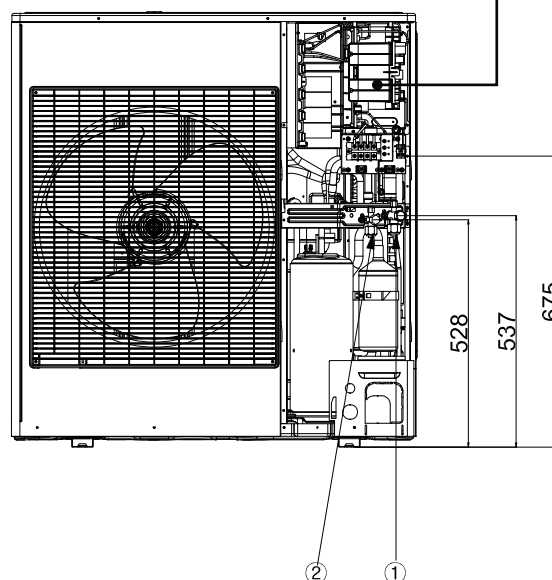
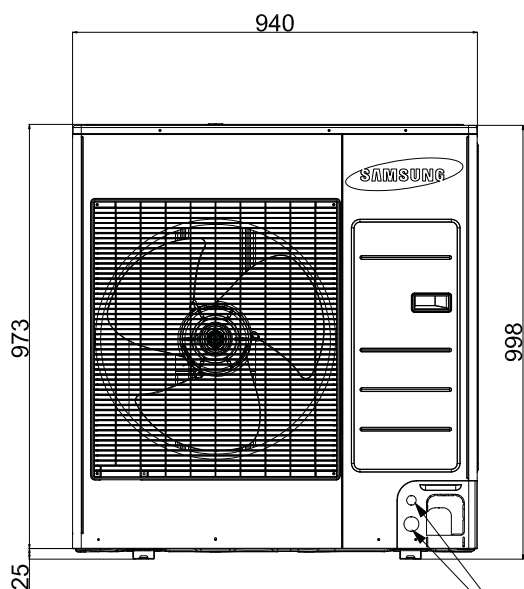
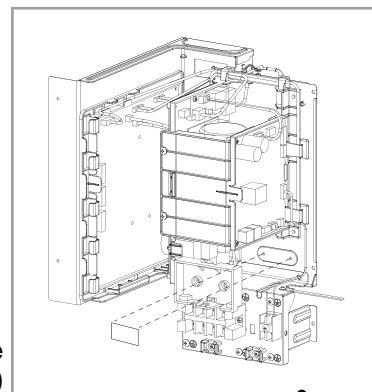


No.	Name		Description	
			6.0kW	7.1kW
①	Gas Ref. Pipe	Ø, mm (inch)	15.88 (5/8)	
②	Liquid Ref. Pipe	Ø, mm (inch)	6.35 (1/4)	
③	Condensate Drain Holes	Ø, mm	20 x 1	
④	Power & Communication Wiring Holes	Ø, mm	-	

5) RC090D/PHXEA, RC100DHXE/GA, RC090/100SHXEA



Interface Module
Installation (Option)

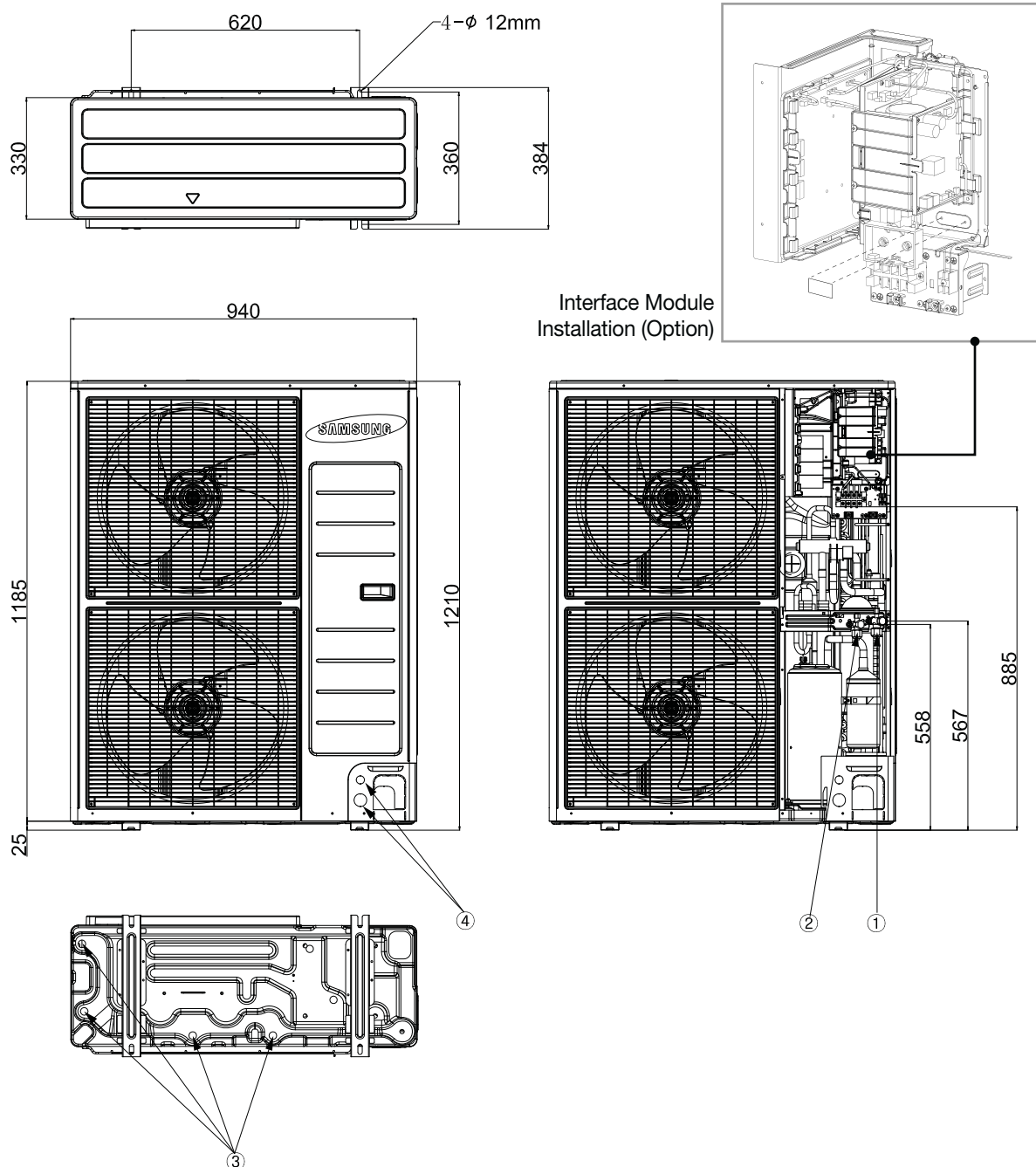


No.	Name		Description	
			9.0kW	10.0kW
①	Gas Ref. Pipe	a, mm (inch)	15.88 (5/8)	
②	Liquid Ref. Pipe	Ø, mm (inch)	9.52 (3/8)	
③	Condensate Drain Holes	Ø, mm	20 x 4	
④	Power & Communication Wiring Holes	Ø, mm	22.2 x 3 / 34.5 x 3	

9 Outdoor units

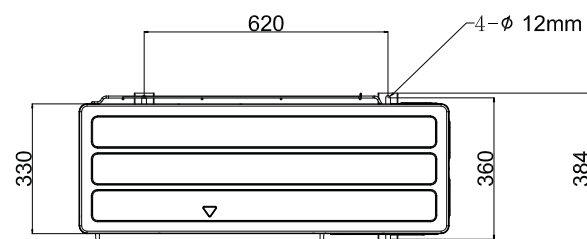
9-6. Dimensional drawing

6) RC100/125PHXE/GA, RC125/140DHXEB

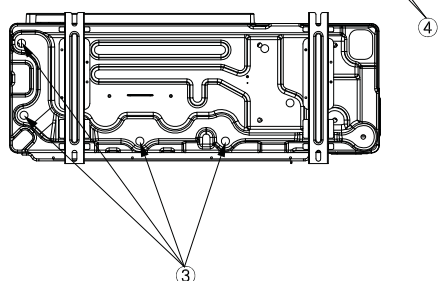
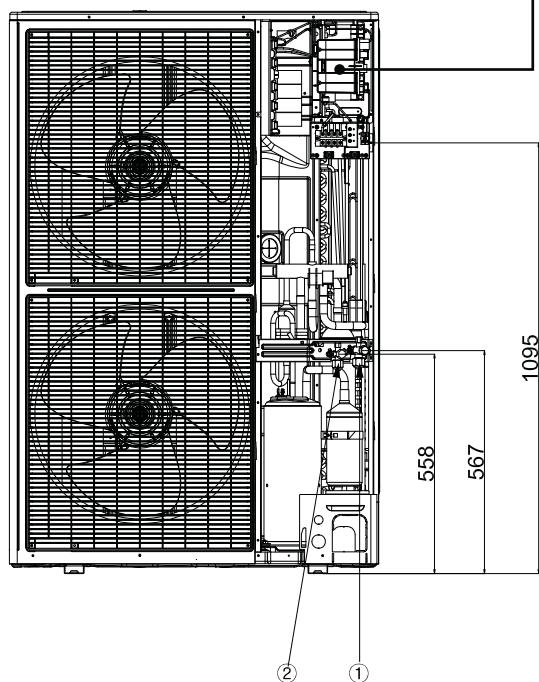
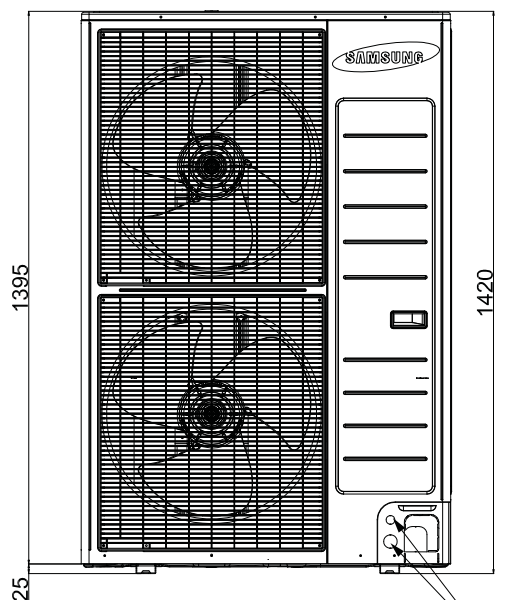
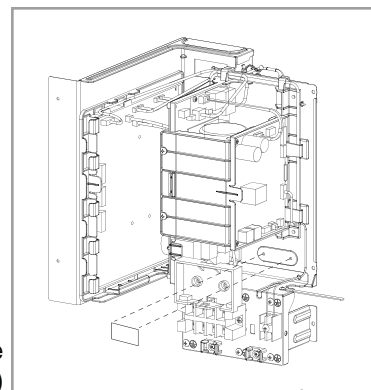


No.	Name		Description		
			10.0kW	12.5kW	14.0kW
①	Gas Ref. Pipe	Ø, mm (inch)	15.88 (5/8)		
②	Liquid Ref. Pipe	Ø, mm (inch)	9.52 (3/8)		
③	Condensate Drain Holes	Ø, mm	20 x 4		
④	Power & Communication Wiring Holes	Ø, mm	22.2 x 3 / 34.5 x 3		

7) RC100ZHxEA, RC140PHXE/GA



Interface Module
Installation (Option)



No.	Name		Description	
			10.0kW	14.0kW
①	Gas Ref. Pipe	Ø, mm (inch)	15.88 (5/8)	
②	Liquid Ref. Pipe	Ø, mm (inch)	9.52 (3/8)	
③	Condensate Drain Holes	Ø, mm	20 x 4	
④	Power & Communication Wiring Holes	Ø, mm	22.2 x 3 / 34.5 x 3	



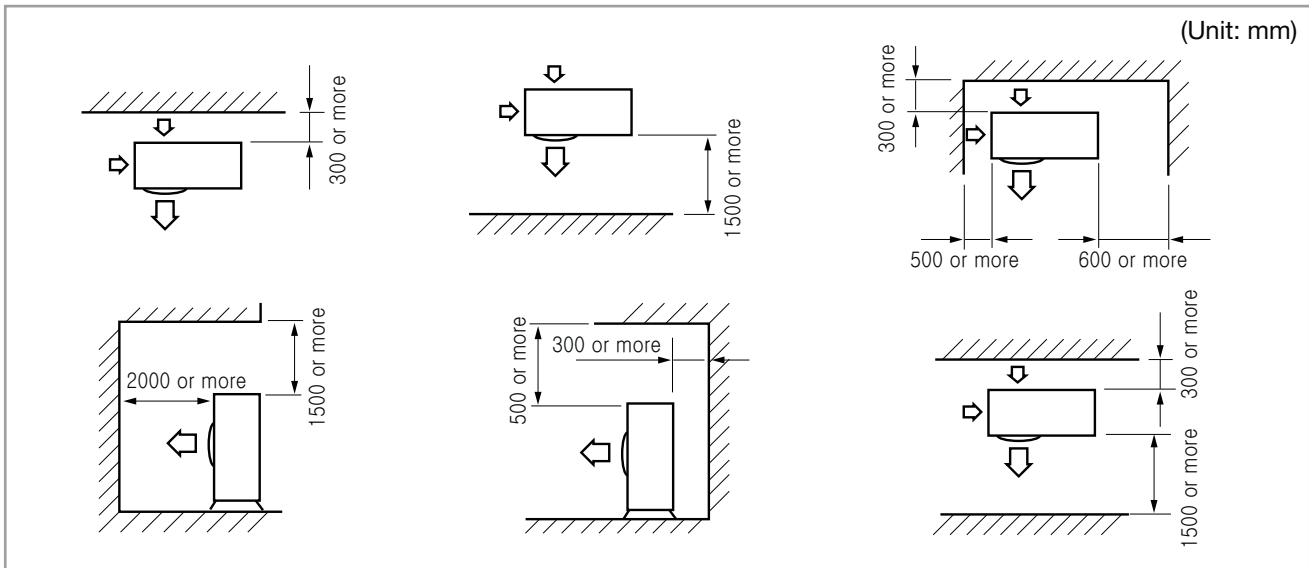
Installation

III. Installation

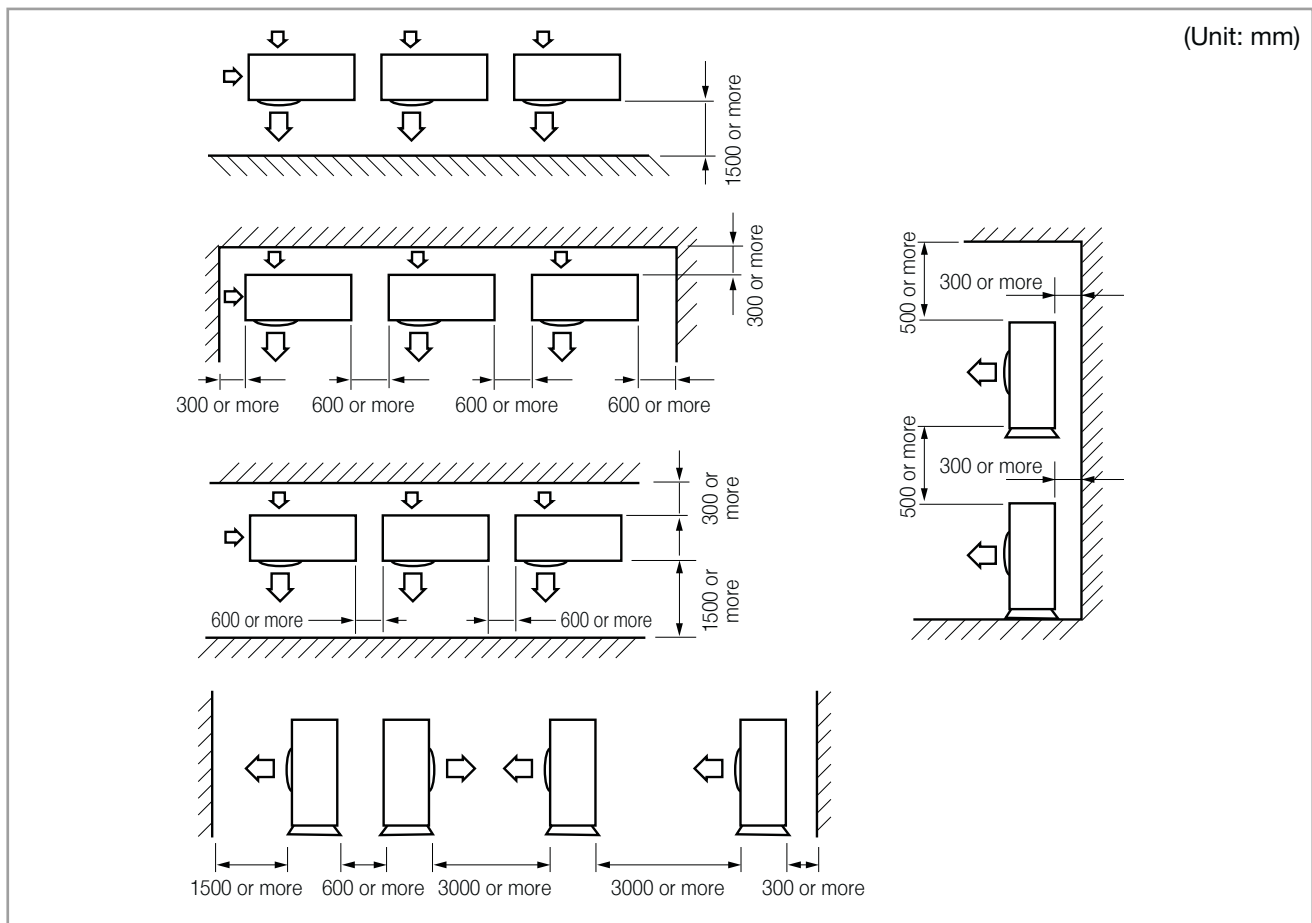
1	Space requirements	180
2	Electric specifications	181
3	Wiring works	182
4	Refrigerant piping works	185
5	Option switches & function keys	190
6	High ceiling option (4 way cassette S only)	193
7	Setting an indoor unit address & installation option...	194
8	Error code	201

1 Space requirements

1-1. Single installation



1-2. Group installation



✓ Note

- ◆ The suggested installation above has concerned minimum installation space.
- ◆ To secure enough service space and performance of system, take account of more sufficient space.

2 Electric specifications

2-1. Electric specifications

Product	Model		Outdoor Units					
			Rated		Voltage Range		Power Supply	
	Indoor Unit	Outdoor Unit	Hz	Volts	Min.	Max.	MCA	MFA
Slim 1way Cassette	NS0261DXEA	RC026DHXEA	50	220-240	198	264	10.3	12.5
	NS0351DXEA	RC035DHXEA	50	220-240	198	264	10.3	12.5
Mini 4Way Cassette	ACN026NDEHA/EU	RC026DHXEA	50	220-240	198	264	10.3	12.5
	ACN035NDEHA/EU	RC035DHXEA	50	220-240	198	264	10.3	12.5
	ACN052NDEHA/EU	RC052DHXEA	50	220-240	198	264	10.8	13.13
	ACN060NDEHA/EU	RC060DHXEA	50	220-240	198	264	20.3	25
	ACN071NDEHA/EU	RC071DHXEA	50	220-240	198	264	20.3	25
4Way Cassette S	NS0714DXEA	RC071DHXEA	50	220-240	198	264	20.3	25
	NS0714PXEA	RC071PHXEA	50	220-240	198	264	20.3	25
	NS0904DXEA	RC090DHXEA	50	220-240	198	264	24.7	30
	NS0904PXEA	RC090PHXEA	50	220-240	198	264	25	30
	NS1004DXEA	RC100DHXEA	50	220-240	198	264	24.7	30
		RC100DHXGA	50	380-415	342	456.5	12.7	15
	NS1004PXEA	RC100PHXEA	50	220-240	198	264	25	30
		RC100PHXGA	50	380-415	342	456.5	13	15
	NS1004ZXEAX	RC100ZHXEA	50	220-240	198	264	25	30
	NS1254DXEA	RC125DHXEB	50	220-240	198	264	25	30
		RC125DHXGA	50	380-415	342	456.5	13	15
	NS1254PXEA	RC125PHXEA	50	220-240	198	264	25	30
		RC125PHXGA	50	380-415	342	456.5	13	15
	NS1404DXEA	RC140DHXEB	50	220-240	198	264	25	30
		RC140DHXGA	50	380-415	342	456.5	13	15
	NS1404PXEA	RC140PHXEA	50	220-240	198	264	33	40
		RC140PHXGA	50	380-415	342	456.5	13	15
Slim Duct	NS035LDXEA	RC035DHXEA	50	220-240	198	264	10.3	12.5
	NS052LDXEA	RC052DHXEA	50	220-240	198	264	10.8	13.13
	NS071LDXEA	RC071DHXEA	50	220-240	198	264	21	25
MSP Duct	NS052SDXEA	RC052DHXEA	50	220-240	198	264	10.8	13.13
	NS071SDXEA	RC071DHXEA	50	220-240	198	264	21	25
	NS090SDXEA	RC090DHXEA	50	220-240	198	264	25.5	30
	NS100SDXEA	RC100DHXEA	50	220-240	198	264	25.5	30
	NS100SDXEA	RC100DHXGA	50	380-415	342	456.5	13.5	15
	NS125SDXEA	RC125DHXEB	50	220-240	198	264	26	30
	NS125SDXEA	RC125DHXGA	50	380-415	342	456.5	14	15.4
	NS140SDXEA	RC140DHXEB	50	220-240	198	264	26	30
	NS140SDXEA	RC140DHXGA	50	380-415	342	456.5	14	15.4
	NS052SSXEA	RC052SHXEA	50	220-240	198	264	12.15	13.4
	NS071SSXEA	RC071SHXEA	50	220-240	198	264	21.65	25
	NS090SSXEA	RC090SHXEA	50	220-240	198	264	23.5	27.5
	NS100SSXEA	RC100SHXEA	50	220-240	198	264	23.5	27.5
Console	JH026EAV1	UH026EAV1	50	220-240	198	264	8.9	10.5
	JH035EAV1	UH035EAV1	50	220-240	198	264	8.9	10.5
	JH052EAV1	UH052EAV1	50	220-240	198	264	18.5	22.5
Ceiling	NS052CDXEA	RC052DHXEA	50	220-240	198	264	10.8	13.13
	NS071CDXEA	RC071DHXEA	50	220-240	198	264	21	25
Neo-Forte	NS026NDXEA	RC026DHXEA	50	220-240	198	264	10.3	12.5
	NS035NDXEA	RC035DHXEA	50	220-240	198	264	10.3	12.5
	NS052NDXEA	RC052DHXEA	50	220-240	198	264	10.8	13.13
	NS071NDXEA	RC071DHXEA	50	220-240	198	264	20.5	25

※ Notes

- Voltage range
 - Units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits
- Maximum allowable voltage variation between phases is 2%.
- 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.
- MFA is used to select the circuit breaker and the ground fault circuit interrupter(earth leakage circuit breaker).
- MCA represents maximum input current.
MFA represents capacity which may accept MCA

※ Abbreviations

- MCA : Min. Circuit Amps. (A)
- MFA : Max. Fuse Amps. (A)

3-1. Power supply and communication cable configuration

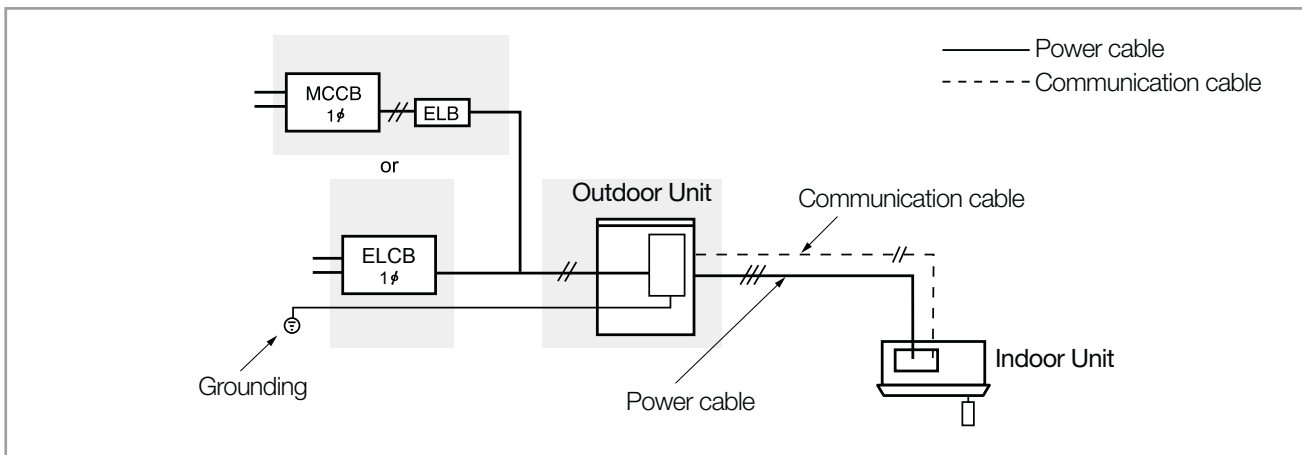
Two electronic cables must be connected to the outdoor unit.

- One is the connection cord between indoor unit and outdoor unit.
- Another is the power cable between outdoor unit and auxiliary circuit breaker.
- Specially for Russian and European market, before installation, the supply authority should be consulted to determine the supply system impedance to ensure compliance.

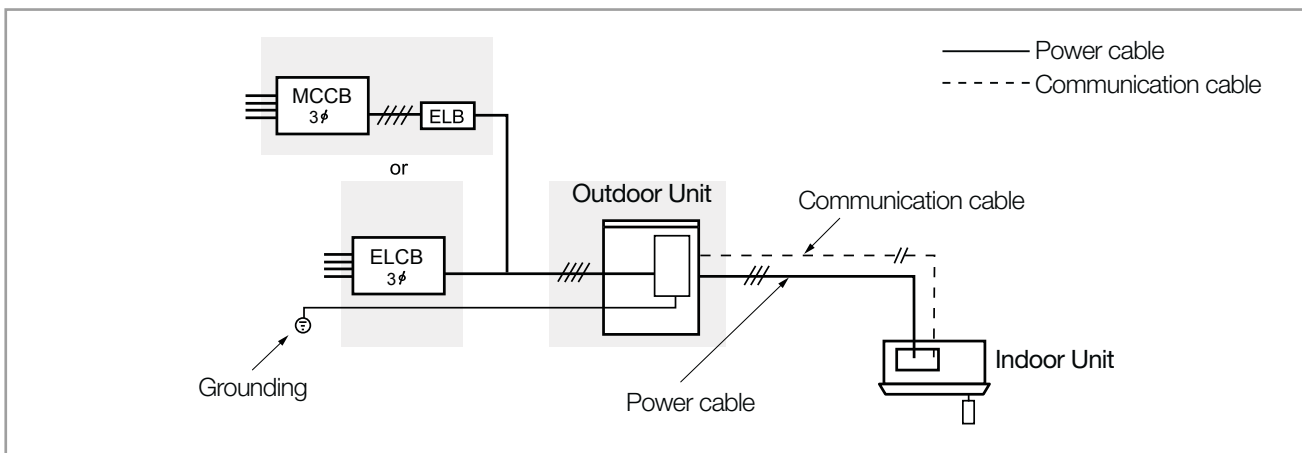
Caution

- ◆ During the unit installation make first refrigerant connections and then electrical connections. If unit is uninstalled first disconnect electrical cables, then refrigerant connections.
- ◆ Connect the air conditioner to grounding system before performing the electrical connection.
- ◆ When installing the unit, you shouldn't use inter connection wire.

1) When using ELB for 1 phase



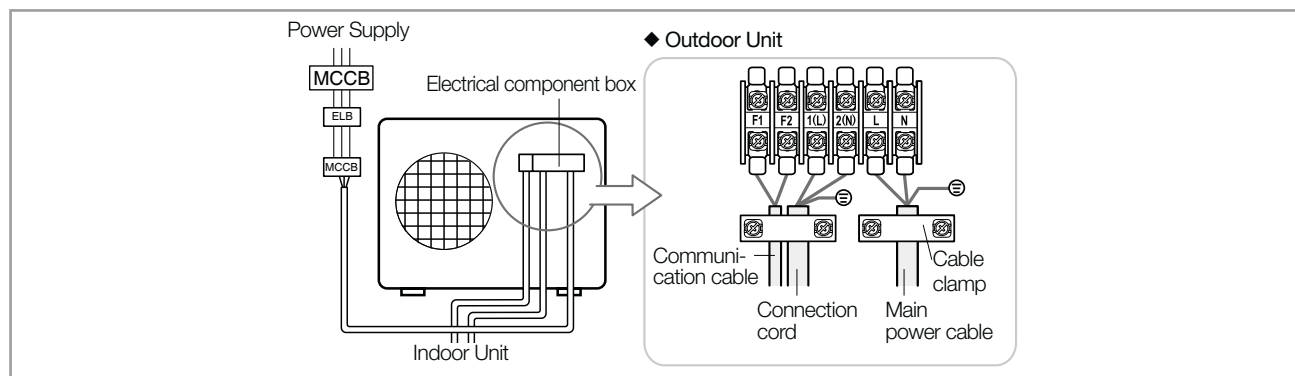
2) When using ELB for 3 phase



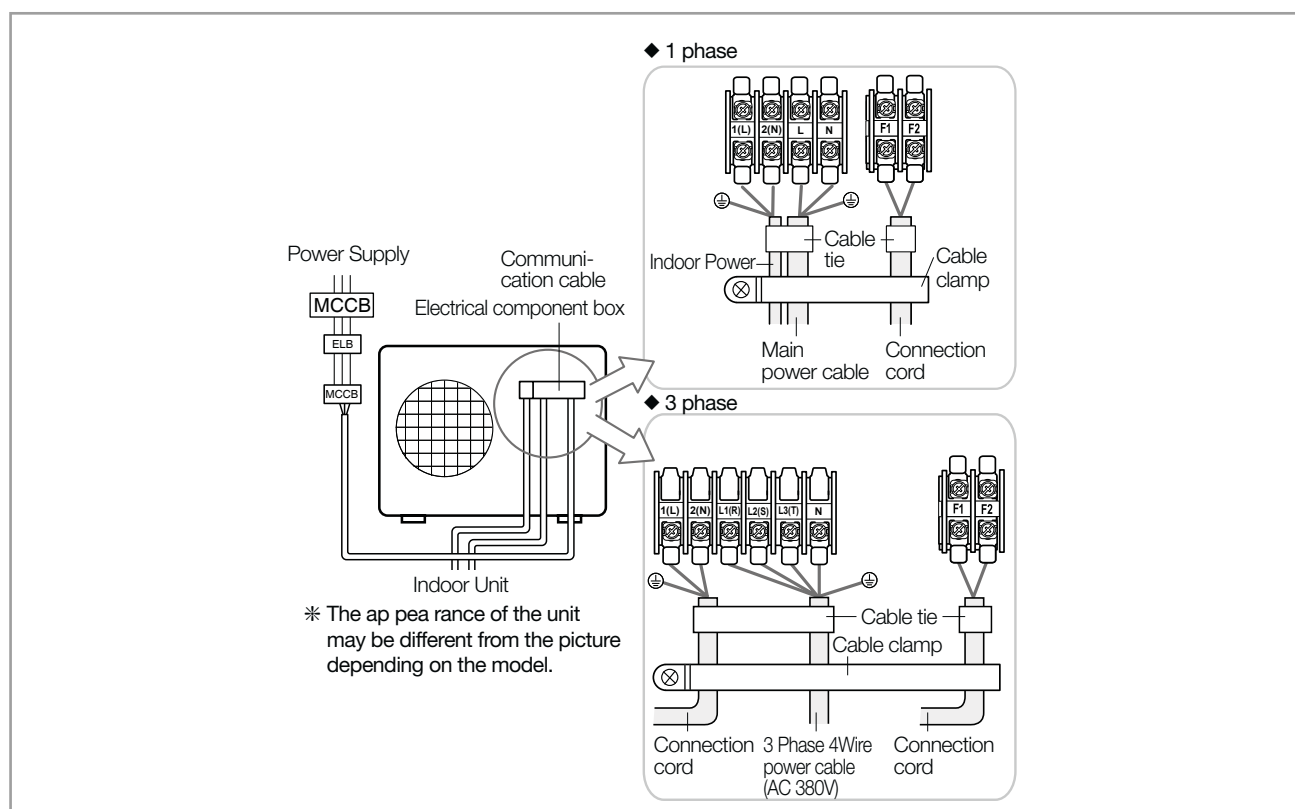
* If an outdoor unit is installed in a place in danger of an electric leak or submergence, you must install the ELB.

3-2. Wiring diagram of power cable

1) RC***DHXE*



2) RC***D/P/Z/S*

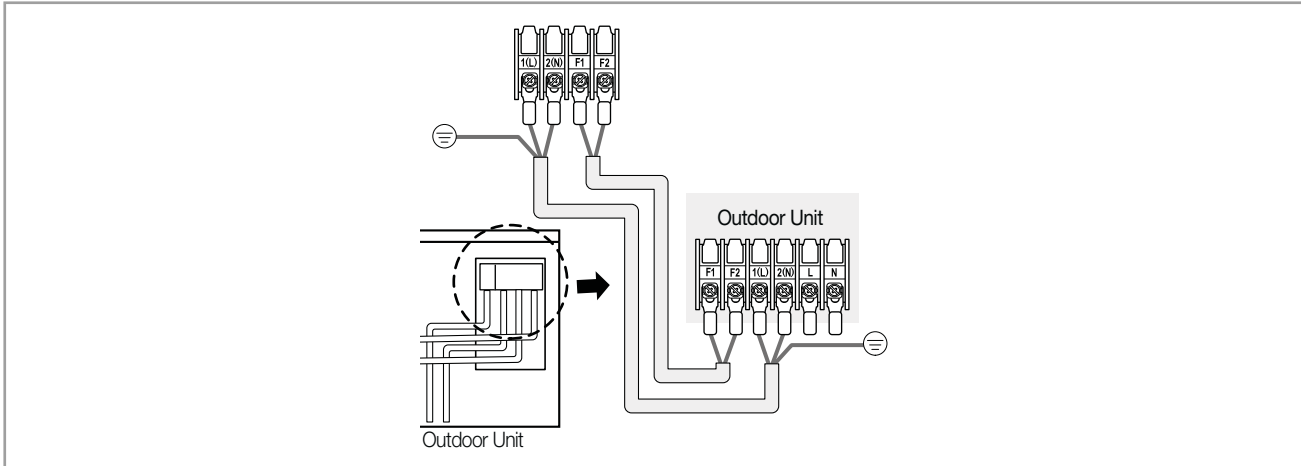


☑ Caution

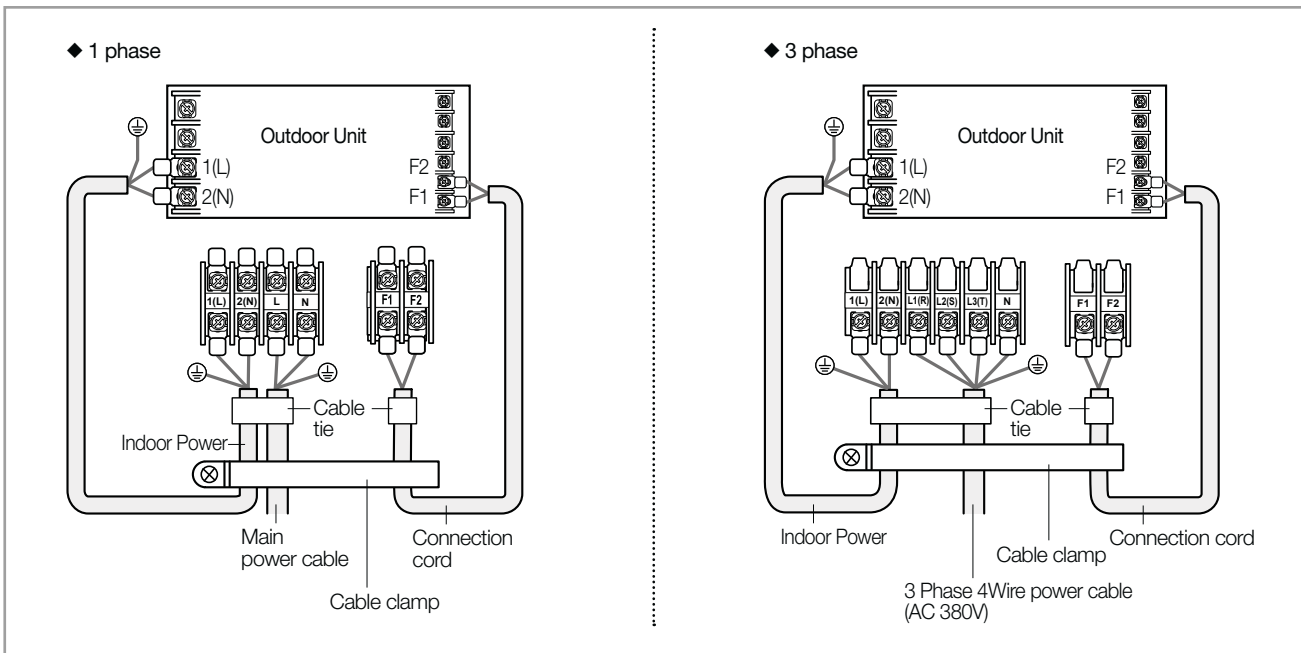
- ◆ You should connect the power cable into the power cable terminal and fasten it with a clamp.
- ◆ The unbalanced power must be maintained within 2% of supply rating.
 - If the power is unbalanced greatly, it may shorten the life of the condenser. If the unbalanced power is exceeded over 4% of supply 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 at least 3 mm.
- ◆ Devices disconnected from the power supply should be completely disconnected in the condition of over voltage category.
- ◆ Keep distances of 50mm or more between power cable and communication cable.

3-3. Wiring diagram of connection cord

1) RC***DHXE*



2) RC***D/P/Z/S*



☒ **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).

4 Refrigerant piping works

4-1. Piping specifications

Product Type	Model		Refrigerant Piping Works						
			Pipe Size (mm/inch)		Installation Limitation (m)		Refrigerant		
	Indoor Unit	Outdoor Unit	Liquid	Gas	Max. Length	Max. Height	Factory Charging (g)	Chargeless (m)	Additional Ref. Amount (g/m)
Slim 1way Cassette	NS0261DXEA	RC026DHXEA	6.35 (1/4)	9.52 (3/8)	20	15	950	20	0
	NS0351DXEA	RC035DHXEA	6.35 (1/4)	9.52 (3/8)	20	15	950	20	0
Mini 4Way Cassette	ACN026NDEH-A/EU	RC026DHXEA	6.35 (1/4)	9.52 (3/8)	20	15	950	20	0
	ACN035NDEH-A/EU	RC035DHXEA	6.35 (1/4)	9.52 (3/8)	20	15	950	20	0
	ACN052NDEH-A/EU	RC052DHXEA	6.35 (1/4)	12.7 (1/2)	30	20	1,400	5	10
	ACN060NDEH-A/EU	RC060DHXEA	6.35 (1/4)	15.88 (5/8)	50	30	1,800	5	25
	ACN071NDEH-A/EU	RC071DHXEA	6.35 (1/4)	15.88 (5/8)	50	30	1,800	5	25
4Way Cassette S	NS0714DXEA	RC071DHXEA	6.35 (1/4)	15.88 (5/8)	50	30	1,800	5	25
	NS0714PXE	RC071PHXEA	6.35 (1/4)	15.88 (5/8)	50	30	1,800	5	25
	NS0904DXEA	RC090DHXEA	9.52 (3/8)	15.88 (5/8)	50	30	3,000	30	*1)
	NS0904PXE	RC090PHXEA	9.52 (3/8)	15.88 (5/8)	50	30	3,000	30	*1)
	NS1004DXEA	RC100DHXEA	9.52 (3/8)	15.88 (5/8)	50	30	3,000	30	*1)
		RC100DHXGA	9.52 (3/8)	15.88 (5/8)	50	30	3,100	30	*1)
	NS1004PXE	RC100PHXEA	9.52 (3/8)	15.88 (5/8)	75	30	3,400	30	*1)
		RC100PHXGA	9.52 (3/8)	15.88 (5/8)	75	30	3,400	30	*1)
	NS1004ZXE	RC100ZHXEA	9.52 (3/8)	15.88 (5/8)	75	30	3,800	30	*1)
		RC100ZHXGA	9.52 (3/8)	15.88 (5/8)	75	30	3,800	30	*1)
	NS1254DXEA	RC125DHXEB	9.52 (3/8)	15.88 (5/8)	75	30	2,900	30	*1)
		RC125DHXGA	9.52 (3/8)	15.88 (5/8)	75	30	2,900	30	*1)
	NS1254PXE	RC125PHXEA	9.52 (3/8)	15.88 (5/8)	75	30	3,400	30	*1)
		RC125PHXGA	9.52 (3/8)	15.88 (5/8)	75	30	3,400	30	*1)
	NS1404DXEA	RC140DHXEB	9.52 (3/8)	15.88 (5/8)	75	30	3,400	30	*1)
		RC140DHXGA	9.52 (3/8)	15.88 (5/8)	75	30	3,400	30	*1)
Slim Duct	NS035LDXEA	RC035DHXEA	6.35 (1/4)	9.52 (3/8)	20	15	950	20	0
	NS052LDXEA	RC052DHXEA	6.35 (1/4)	12.7 (1/2)	30	20	1,400	5	10
	NS071LDXEA	RC071DHXEA	6.35 (1/4)	15.88 (5/8)	50	30	1,800	5	25
MSP Duct	NS052SDXEA	RC052DHXEA	6.35 (1/4)	12.7 (1/2)	30	20	1,400	5	10
	NS071SDXEA	RC071DHXEA	6.35 (1/4)	15.88 (5/8)	50	30	1,800	5	25
	NS090SDXEA	RC090DHXEA	9.52 (3/8)	15.88 (5/8)	50	30	3,000	30	*1)
	NS100SDXEA	RC100DHXEA	9.52 (3/8)	15.88 (5/8)	50	30	3,000	30	*1)
	NS100SDXEA	RC100DHXGA	9.52 (3/8)	15.88 (5/8)	50	30	3,100	30	*1)
	NS125SDXEA	RC125DHXEB	9.52 (3/8)	15.88 (5/8)	75	30	2,900	30	*1)
	NS125SDXEA	RC125DHXGA	9.52 (3/8)	15.88 (5/8)	75	30	2,900	30	*1)
	NS140SDXEA	RC140DHXEB	9.52 (3/8)	15.88 (5/8)	75	30	3,400	30	*1)
	NS140SDXEA	RC140DHXGA	9.52 (3/8)	15.88 (5/8)	75	30	3,400	30	*1)
	NS052SSXEA	RC052SHXEA	6.35 (1/4)	12.7 (1/2)	30	20	1,300	5	15
	NS071SSXEA	RC071SHXEA	6.35 (1/4)	15.88 (5/8)	30	20	1,350	5	20
	NS090SSXEA	RC090SHXEA	9.52 (3/8)	15.88 (5/8)	50	30	2,500	5	40
	NS100SSXEA	RC100SHXEA	9.52 (3/8)	15.88 (5/8)	50	30	2,500	5	40
Console	JH026EAV1	UH026EAV1	6.35 (1/4)	9.52 (3/8)	20	15	950	20	0
	JH035EAV1	UH035EAV1	6.35 (1/4)	9.52 (3/8)	20	15	950	20	0
	JH052EAV1	UH052EAV1	6.35 (1/4)	12.7 (1/2)	50	30	1,450	5	30
Ceiling	NS052CDXEA	RC052DHXEA	6.35 (1/4)	12.7 (1/2)	30	20	1,400	5	10
	NS071CDXEA	RC071DHXEA	6.35 (1/4)	15.88 (5/8)	50	30	1,800	5	25
Neo-Forte	NS026NDXEA	RC026DHXEA	6.35 (1/4)	9.52 (3/8)	20	15	950	20	0
	NS035NDXEA	RC035DHXEA	6.35 (1/4)	9.52 (3/8)	20	15	950	20	0
	NS052NDXEA	RC052DHXEA	6.35 (1/4)	12.7 (1/2)	30	20	1,400	5	10
	NS071NDXEA	RC071DHXEA	6.35 (1/4)	15.88 (5/8)	50	30	1,800	5	25

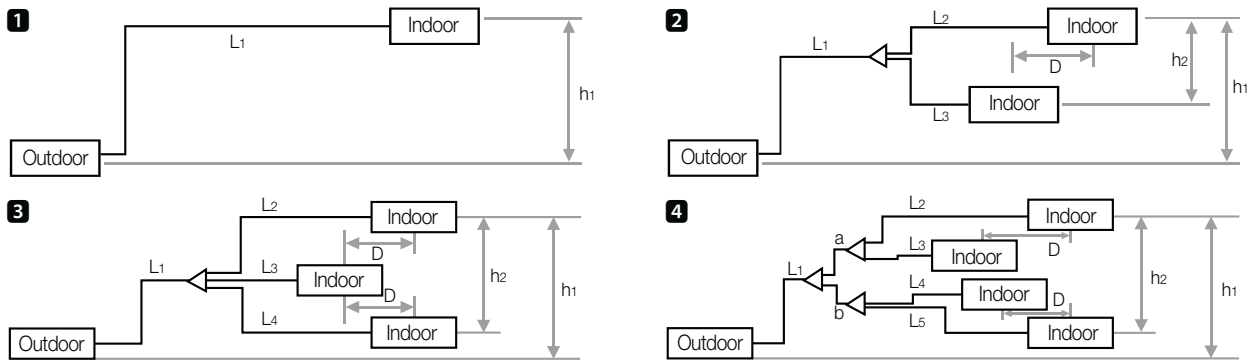
*1) Additional Refrigerant Amount

Below 30m	30~40m	40~50m	50~60m	60~70m	70~75m
0	+500g	+1,000g	+1,500g	+2,000g	+2,250g

*2) In case of DPM model, refer to the "4-4 DPM installation" page.

4 Refrigerant piping works

4-2. Piping diagram



※ Use a joint kit that is only for DPM.

Items	Maximum allowable length							
	Single installation					DPM installation		
	1					2	3	4
Applicable outdoor unit models	RC026DHXE* RC035DHXE*	RC052DHXE* RC052SHXE* RC071SHXE*	RC060DHXE* RC071DHXE* RC071PHXE*	RC090*HXEA RC100DHX*A RC100SHXE*	RC100PHX*A RC100ZHXEA RC100DHXEH RC125*HX** RC140*HX** RC155DHXEH RC180DHXGH	RC071DHXE* RC071PHXE*	RC100DHX*A	RC100PHX*A RC125DHXEB RC125DHXGA RC125PHX*A RC140DHXEB RC140DHXGA RC140PHX*A
Total pipe length (L1+...+Ln+1+a+b)	-	-	-	-	-	50 m	50 m	75 m
Main pipe (L1)	20 m	30 m	50 m	50 m	75 m	30 m	30 m	50 m
Max. length among indoor units (D)	-	-	-	-	-	10 m	10 m	10 m
Max. length after branch	-	-	-	-	-	15 m	15 m	15 m
Max. height difference between outdoor and indoor units (h1)	15 m	20 m	30 m	±30 m	±30 m	±30 m	±30 m	±30 m
Max. height difference among indoor units (h2)	-	-	-	-	-	±0.5m	±0.5m	±0.5m
Max Pipe length difference among indoor units after branch (L2-L3 or L2-L4 or L2-L5 or a-b)	-	-	-	-	-	±1m	±1m	±1m

4-3. Insulation

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

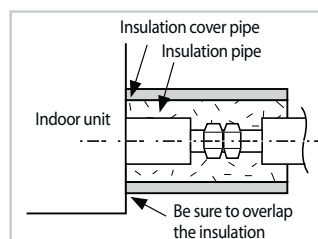
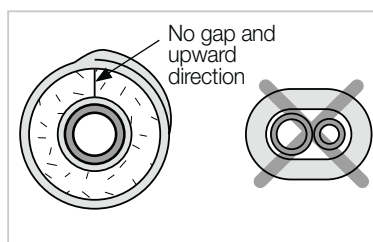
Pipe	Pipe size	Insulation Type (Heating/Cooling)		Remarks
		Standard [30°C, less than 85%]	High humidity [30°C, over 85%]	
		EPDM, NBR		
Liquid pipe	Ø6.35 ~ Ø9.52	9t	9t	Internal temperature is higher than 120°C
	Ø12.7 ~ Ø19.05	13t	13t	
Gas pipe	Ø6.35	13t	19t	
	Ø9.52	19t	25t	
	Ø12.70			
	Ø15.88			
	Ø19.05			

✓ **Note**

- ◆ When installing insulation in places and conditions below, use the same insulation that is used for high humidity conditions.
 - Geological condition:
High humidity places such as shoreline, hot spring, near lake or river, and ridge (when the part of the building is covered by earth and sand).
 - Operation purpose condition:
Restaurant ceiling, sauna, swimming pool etc.
 - Building construction condition:
The ceiling frequently exposed to moisture and cooling is not covered.
- e.g. The pipe installed at a corridor of a dormitory and studio or near an exit that opens and closes frequently.
The place where the pipe is installed is highly humid due to the lack of ventilation system.

✓ **Caution**

- ◆ The insulation has to be produced in full compliance of European regulation reg. EEC / EU 2037/ 2000 that requires the use of sheaths insulation form without using CFC and HCFC gases for health and the environment.



✓ **Caution**

- ◆ Must fit tightly against body without any gap.

4 Refrigerant piping works

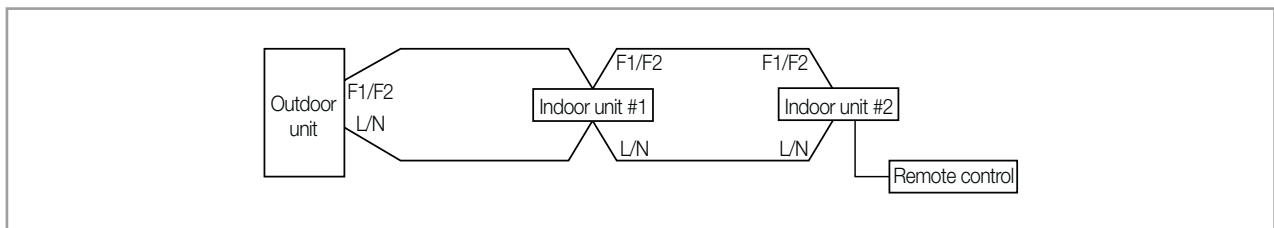
4-4. DPM Installation

1) Space requirements for indoor and outdoor units and piping installation

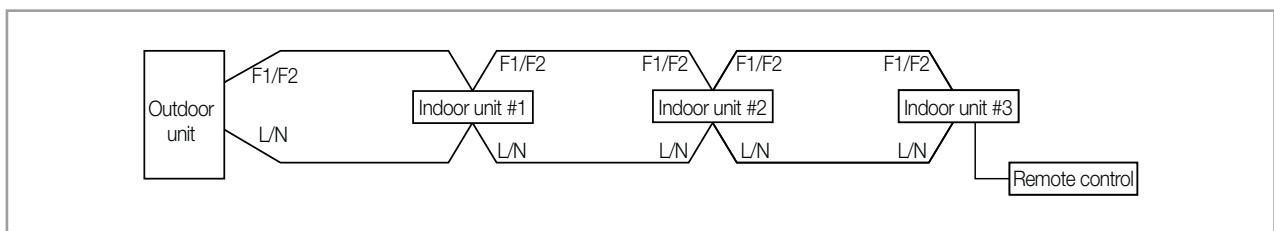
- Two indoor units should be installed in one area which is not divided by a wall.
- The distance between two indoor units should be within a straight-line of 10m.
- After branching, the distance between the piping connected to the two indoor units should be within 1m.
- The height difference between two units should be within 0.5m.
- Use the joint KIT that is only for DPM. (Please refer to the table below)

2) Connecting communication line and wired remote controller

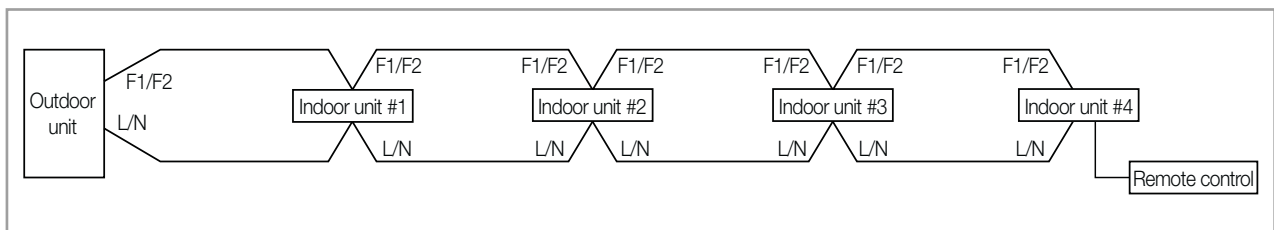
🔪 In case of 2 indoor units connection



🔪 In case of 3 indoor units connection

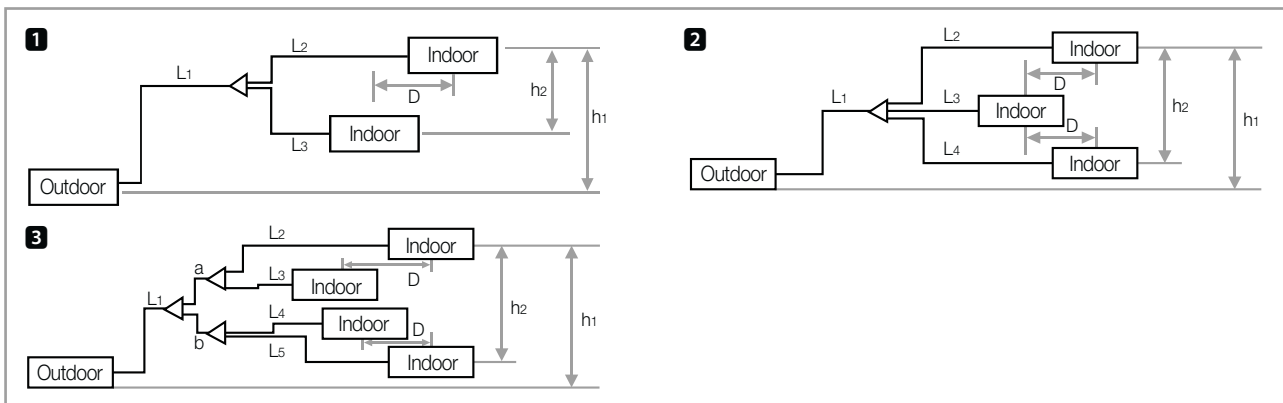


🔪 In case of 4 indoor units connection



* The wired remote controller can be used with any of the DPM indoor units.

3) Additional refrigerant charging



Type	Model	Installation condition	Amount of additional refrigerant charging
DPM	1 RC071DHXE*/ RC071PHXE*	$L_1 + L_2 + L_3 \leq 50 \text{ m}$	$(L_1 - 5) \times 0.04 + (L_2 + L_3) \times A$, $A = 0.03 \text{ kg/m}$ ($\phi = 6.35 \text{ mm}$) $A = 0.04 \text{ kg/m}$ ($\phi = 9.52 \text{ mm}$) * "A" refer to diameter of pipe after joint-distributor
	2 RC100DHX*A	$L_1 + \dots + L_{n+1} \leq 50 \text{ m}$	$(L_1 + a + b - 5) \times 40[\text{g}] + (L_2 + \dots + L_{n+1}) \times 30[\text{g}]$ If $(L_1 + a + b) < 5 \text{ m}$, $(L_2 + \dots + L_{n+1}) \times 30[\text{g}]$
	3 RC100PHX*A/RC125DHXEB/ RC125DHXGA/RC125PHX*A/ RC140DHXEB/RC140DHXGA/ RC140PHX*A	$L_1 + \dots + L_{n+1} \leq 75 \text{ m}$	$(L_1 + a + b - 5) \times 40[\text{g}] + (L_2 + \dots + L_{n+1}) \times 30[\text{g}]$ If $(L_1 + a + b) < 5 \text{ m}$, $(L_2 + \dots + L_{n+1}) \times 30[\text{g}]$

* "n" means the number of indoor unit connection of DPM.

4) Set-up indoor unit quantity by key switch (K1, K2)

Press and hold K1 switch to enter the setting mode on the number of the installed indoor unit : Check "A0" sign on 7-segment

- Press K2 switch to set the number of the installed indoor unit :
Ex) If there are two indoor units, press K2 switch twice, and check "A2" sign on 7-segment.
If there are three indoor units, press K3 switch three times, and check "A3" sign on 7-segment.
If there are four indoor units, press K4 switch four times, and check "A4" sign on 7-segment.
- Press K1 switch to complete setting the number of the installed indoor unit : Check "AA" sign on 7-segment.

5) Operation and specification

- The two indoor units are equally controlled by wired and wireless remote controller.
(All controls such as ON/OFF, Cooling/Heating/Dehumidification/Ventilation, High/Medium/Low wing, Fixing louver angle/swing are equally applied.)
- Thermo Off which stops when indoor temperature reaches set temperature works by the average sensor value of the indoor temperature of two indoor units.
- When either of the two indoor units has a problem, the two indoor units protect operation or stop working.

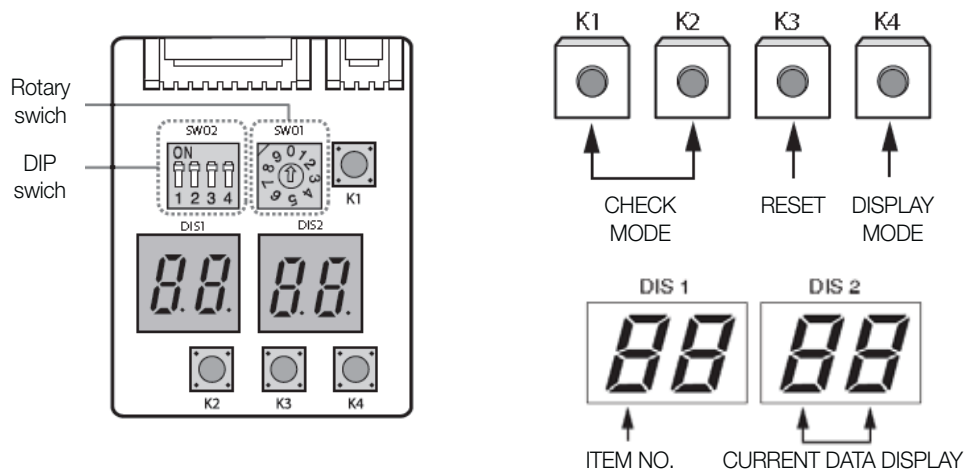
6) Instruction for installation and operation

- You should install the DPM models according to the proper 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.
(Ex. The air-conditioners in this area are special type to be controlled simultaneously)

5 Option switches & function keys

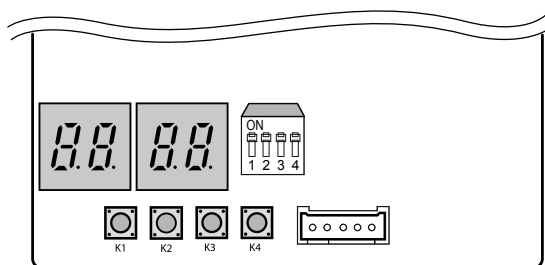
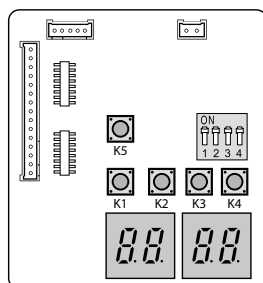
5-1. Key Function

1) UH026/035/052/060EAV1, UH052/070EAS



Function	K1	K2	K3	K4
Number of press times				
1	Test operation at heating mode	Test operation at cooling mode	Reset	Displays Data
2	End	End	-	-

2) RC***D/P/Z/S*



K1 (Push Time)	Key Operation	7-Segment Display
1	Heating Trial Operation	"K" "1"
2	Defrost Test Mode	"K" "2"
-	End Key Operation	-

K2 (Push Time)	Key Operation	7-Segment Display
1	Cooling Trial Operation	"K" "3"
2	End Key Operation	-

K3 (Push Time)	Key Operation	7-Segment Display
1	Initializing(Reset) Operation	-

K4(Push Time)	Key Operation	F7-Segment Display	
		SEG 1	SEG 2,3,4
1	Order Frequency	1	Ex) 100Hz → 1, 0, 0
2	Current Frequency	2	Ex) 105Hz → 1, 0, 5
3	The Number of Current Indoor Units	3	Ex) 1 → 0, 0, 1
4	The Sensor for Outdoor Air Intake	4	Ex) 30°C → 0, 3, 0
5	Discharge Sensor	5	Ex) 30°C → 0, 3, 0
6	Eva-Mid Sensor	6	Ex) 30°C → 0, 3, 0
7	Cond. Sensor	7	Ex) 30°C → 0, 3, 0
8	Current	8	Ex) 2A → 0, 0, 2
9	Fan RPM	9	Ex) 50rpm → 0, 5, 0
10	Target Discharge Temperature	A	Ex) 30°C → 0, 3, 0
11	EEV	B	Ex) 100steps → 1, 0, 0
12	The Capacity Sum of Indoor Units	C	Ex) 14kW → 0, 1, 4

5 Option switches & function keys

5-1. Key Function

K4(Push Time)	Key Operation	F7-Segment Display		
		SEG 1	SEG 2,3,4	
13	Protective control	D	SEG2	0 : Cooling
				1 : Heating
			SEG3	Protective control 0 : No protective control 1 : Freezing 2 : Non-stop defrosting 3 : Over-load 4 : Discharge 5 : Total electric current
				Frequency status 0 : Normal 1 : Hold 2 : Down 3 : Up_limit 4 : Down_limit
14	The temperature of heat radiating plate	E	Ex) 30 → à 0, 3, 0	
15	S/W check	F	-	

Long Push 1	Main micom version	Year (hex)	Month (hex)	Date (10 digit)	Date (unit digit)
After Short Push 1	Inverter micom version	Year (hex)	Month (hex)	Date (10 digit)	Date (unit digit)
After Short Push 1	E2P version	Year (hex)	Month (hex)	Date (10 digit)	Date (unit digit)

* Long push K4(Main micom ver.) → Short push 1 more(Inv. micom ver.) → Short push 1 more (E2P ver.)

🔧 How to deactivate the eco-mode(Stanby-mode)

- 7.1kW model only : press "K5" button
- Other models : press "K3" button (Reset the power supply → Deactivate the eco-mode)

🔧 DIP switch option

	On(default)	Off
Switch 1	Auto address	Manual address
Switch 2	-	-
Switch 3	Disable snow prevention control	Enable snow prevention control
Switch 4	-	-

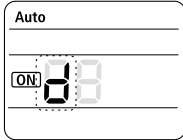
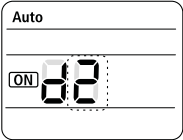
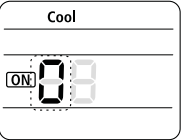
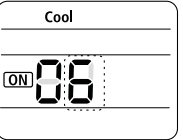
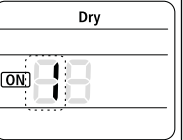
6-1. Allowable ceiling height

Model			NS0714DX**	NS0714PX** NS0904DX** NS1004DX**	NS0904PX** NS1004PX** NS1004ZX** NS1254DX** NS1254PX** NS1404PX** NS1404DX**
Net Dimension (W x H x D)		mm	840x204x840	840x246x840	840x288x840
Max. Ceiling Height	Default	m	2.7	3.6	4.3
	High Ceiling Mode	m	3.5	3.9	4.6

6-2. Option code for high ceiling mode

Model	All Models
Default	0D2060
High ceiling mode	0D2061

 Display of wireless remote controller

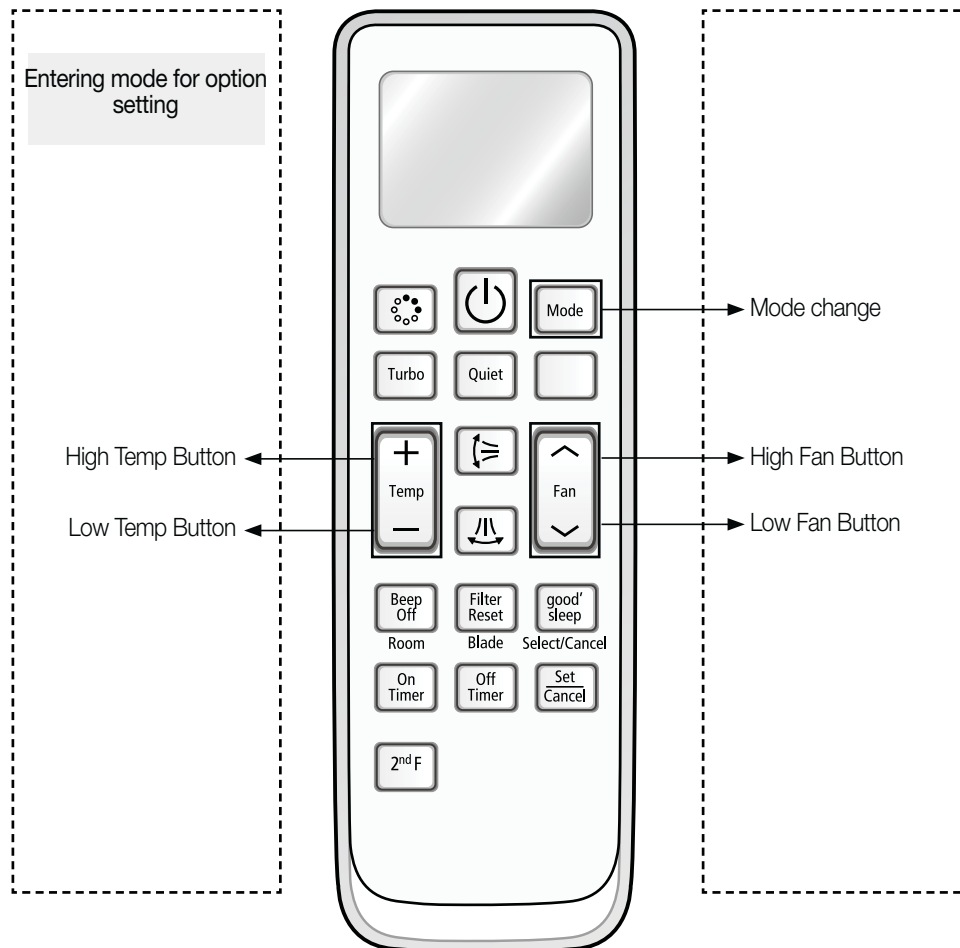
Option	SEG 1	SEG 2	SEG 3	SEG 4	SEG 5	SEG 6
Explanation	PAGE	MODE	The option mode you want to change	The ten's digit of an option SEG you will change	The unit digit of an option SEG you will change	The changed value
Remote controller display	-					
Indication and details	0	D	2	0	6	1

Setting an indoor unit address & installation option

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

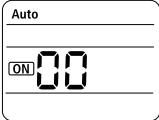
Set the each option separately since you cannot set the ADDRESS setting and indoor unit installation setting option at the same time. You need to set twice when setting indoor unit address and installation option.

7-1. The procedure of option setting



Step 1. Entering mode to set option

- ① Remove batteries from the remote controller.
- ② Insert batteries and enter the option setting mode while pressing High Temp button and Low Temp button.

- ③  Check if you have entered the option setting status.



Step 2. The procedure of option setting

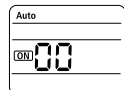
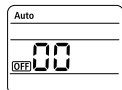
After entering the option setting status, select the option as listed below.

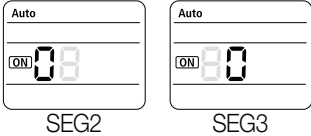
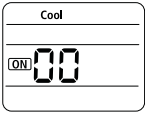
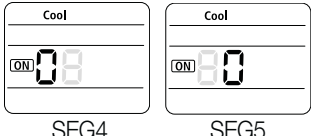
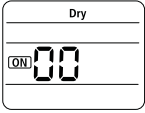
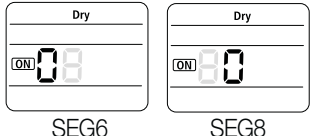
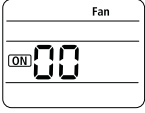
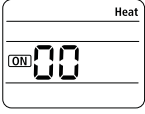
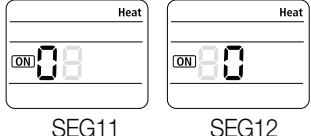
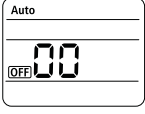
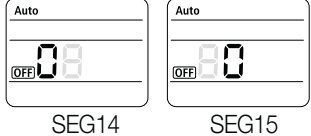


Option setting is available from SEG1 to SEG 24

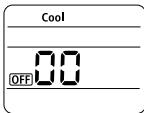
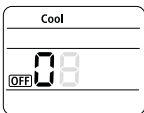
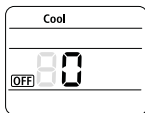
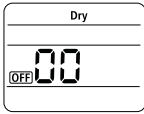
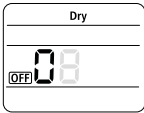
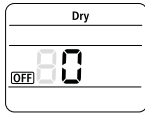
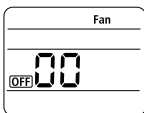
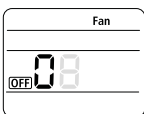
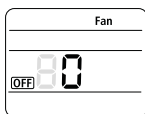
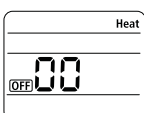
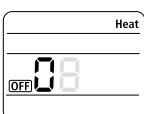
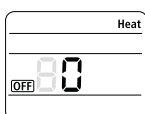
- SEG1, SEG7, SEG13, SEG19 are not set as page option.
- Set the SEG2~SEG6, SEG8~SEG12 as ON status and SEG14~18, SEG20~24 as OFF status.

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

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

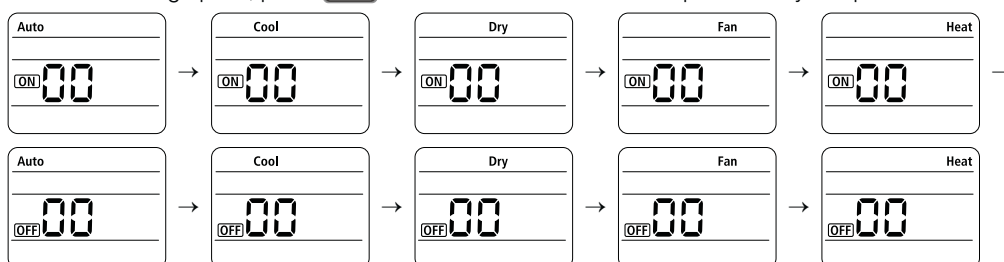
Option setting	Status
1. Setting SEG2, SEG3 option Press Low Fan button(V) to enter SEG2 value. Press High Fan button(Λ) to enter SEG3 value. Each time you press the button, 0 → 1 → ... 8 → F will be selected in rotation.	 SEG2 SEG3
2. Setting Cool mode  Press Mode button to be changed to Cool mode in the ON status.	
3. Setting SEG4, SEG5 option Press Low Fan button(V) to enter SEG4 value. Press High Fan button(Λ) to enter SEG5 value. Each time you press the button, 0 → 1 → ... 8 → F will be selected in rotation.	 SEG4 SEG5
4. Setting Dry mode  Press Mode button to be changed to DRY mode in the ON status.	
5. Setting SEG6, SEG8 option Press Low Fan button(V) to enter SEG6 value. Press High Fan button(Λ) to enter SEG8 value. Each time you press the button, 0 → 1 → ... 8 → F will be selected in rotation.	 SEG6 SEG8
6. Setting Fan mode  Press Mode button to be changed to FAN mode in the ON status.	
7. Setting SEG9, SEG10 option Press Low Fan button(V) to enter SEG9 value. Press High Fan button(Λ) to enter SEG10 value. Each time you press the button, 0 → 1 → ... 8 → F will be selected in rotation.	 SEG9 SEG10
8. Setting Heat mode  Press Mode button to be changed to HEAT mode in the ON status.	
9. Setting SEG11, SEG12 option Press Low Fan button(V) to enter SEG11 value. Press High Fan button(Λ) to enter SEG12 value. Each time you press the button, 0 → 1 → ... 8 → F will be selected in rotation.	 SEG11 SEG12
10. Setting Auto mode  Press Mode button to be changed to AUTO mode in the OFF status.	
11. Setting SEG14, SEG15 option Press Low Fan button(V) to enter SEG14 value. Press High Fan button(Λ) to enter SEG15 value. Each time you press the button, 0 → 1 → ... 8 → F will be selected in rotation.	 SEG14 SEG15

7-1. The procedure of option setting

Option setting	Status
12. Setting Cool mode  Press Mode button to be change to Cool mode in the OFF status.	
13. Setting SEG16, SEG17 option Press Low Fan button(V) to enter SEG16 value. Press High Fan button(Λ) to enter SEG17 value. Each time you press the button, 0 → 1 → ... 8 → 9 will be selected in rotation.	  SEG16 SEG17
14. Setting Dry mode  Press Mode button to be change to Dry mode in the OFF status.	
15. Setting SEG18, SEG20 option Press Low Fan button(V) to enter SEG18 value. Press High Fan button(Λ) to enter SEG20 value. Each time you press the button, 0 → 1 → ... 8 → 9 will be selected in rotation.	  SEG18 SEG20
16. Setting Fan mode  Press Mode button to be change to Fan mode in the OFF status.	
17. Setting SEG21, SEG22 option Press Low Fan button(V) to enter SEG21 value. Press High Fan button(Λ) to enter SEG22 value. Each time you press the button, 0 → 1 → ... 8 → 9 will be selected in rotation.	  SEG21 SEG22
18. Setting Heat mode  Press Mode button to be change to HEAT mode in the OFF status.	
19. Setting SEG23, SEG24 mode Press Low Fan button(V) to enter SEG23 value. Press High Fan button(Λ) to enter SEG24 value. Each time you press the button, 0 → 1 → ... 8 → 9 will be selected in rotation.	  SEG23 SEG24

Step 3. Check the option you have set

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



Step 4. Input option

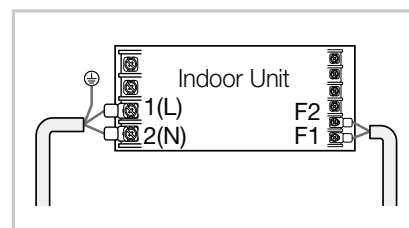
Press operation button  with the direction of remote control for set.
 For the correct option setting, you must input the option twice.

Step 5. Check operation

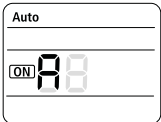
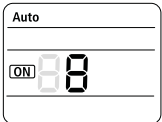
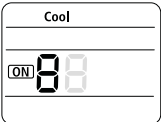
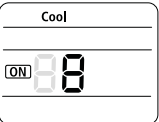
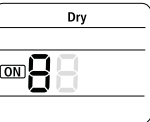
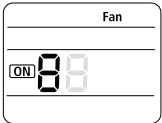
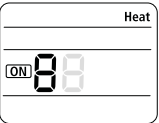
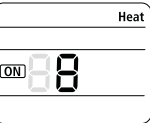
- Reset the indoor unit by pressing the RESET button of indoor unit or outdoor unit.
- Take the batteries out of the remote controller and insert them again and then press the operation button.

7-2. Setting an indoor unit address (MAIN/RMC)

- 1) Check whether power is supplied or not.
- When the indoor unit is not plugged in, there should be additional power supply in the indoor unit.
- 2) The panel(display) should be connected to an indoor unit to receive option.
- 3) Before installing the indoor unit, assign an address to the indoor unit according to the air conditioning system plan.
- 4) Assign an indoor unit address by wireless remote controller.
- The initial setting status of indoor unit ADDRESS(MAIN/RMC) is "0A0000-100000-200000-300000".



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

Option	SEG1		SEG2		SEG3		SEG4		SEG5		SEG6	
Explanation	PAGE		MODE		Setting Main address		100-digit of indoor unit address		10-digit of indoor unit		The unit digit of an indoor unit	
Remote Controller Display												
Indication and Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details
	0		A		0	No Main address	0~9	100-digit	0~9	10-digit	0~9	A unit digit
					1	Main address setting mode						
Option	SEG7		SEG8		SEG9		SEG10		SEG11		SEG12	
Explanation	PAGE				Setting RMC address				Group channel(*16)		Group address	
Remote Controller Display												
Indication and Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details
	1				0	No RMC address			RMC1	0~2	RMC2	0~F
					1	RMC address setting mode						

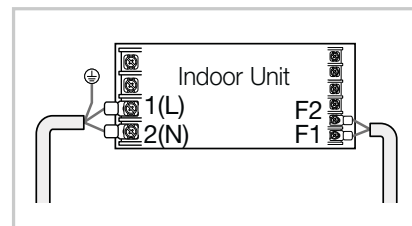


CAUTION

- When "A" ~ "F" is entered to SEG5~6, the indoor unit MAIN ADDRESS is not changed.
- If you set the SEG 3 as 0, the indoor unit will maintain the previous MAIN ADDRESS even if you input the option value of SEG6.
- If you set the SEG 9 as 0, the indoor unit will maintain previous RMC ADDRESS even if you input the option value of SEG11~12.

7-3. Setting an indoor unit installation option (suitable for the condition of each installation location)

- 1) Check whether power is supplied or not.
- When the indoor unit is not plugged in, there should be additional power supply in the indoor unit.
- 2) The panel(display) should be connected to an indoor unit to receive option.
- 3) Set the installation option according to the installation condition of an air conditioner.
- The default setting of an indoor unit installation option is "02000-100000-200000-300000".
- Individual control of a remote controller(SEG20) is the function that controls an indoor unit individually when there is more than one indoor unit.
- 4) Set the indoor unit option by wireless remote controller.



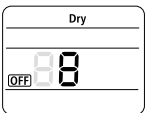
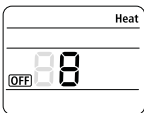
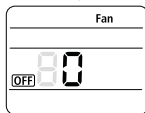
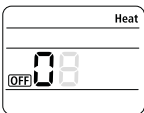
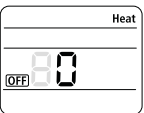
SEG1	SEG2	SEG3	SEG4	SEG5	SEG6
0	2	RESERVED	Exterior temperature sensor	Central control	FAN RPM compensation
SEG7	SEG8	SEG9	SEG10	SEG11	SEG12
1	Drain pump	Hot water heater	Electronic heater	Opening the electronic expansion valve	Master / Slave
SEG13	SEG14	SEG15	SEG16	SEG17	SEG18
2	External control	External control output	S-Plasma ion	Buzzer	Number of hours using filter
SEG19	SEG20	SEG21	SEG22	SEG23	SEG24
3	Individual control of a remote controller	Heating setting compensation	EEV opening of an indoor unit stopped during oil return or Defrost operation.	Motion Detect sensor	-

- ▶ 1WAY/2WAY/4WAY MODEL : Drain pump(SEG8) will be set to 'USE + 3minute delay' even if the drain pump is set to 0.
- ▶ 1 WAY/2WAY/4WAY, DUCT MODEL : Number of hours using filter(SEG18) will be set to '1000hour' even if the SEG18 is set to except for 2 or 6.
- ▶ MINI 4WAY MODEL : Motion detect sensor(SEG23) will be set.
- ▶ If you input a number other than 0~4 of the individual control of the indoor unit(SEG20), the indoor is set as "indoor 1".

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

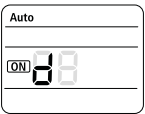
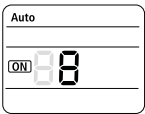
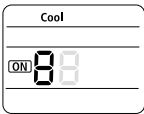
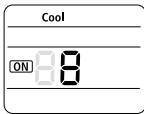
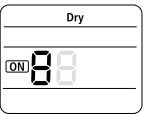
Option	SEG1		SEG2		SEG3		SEG4		SEG5		SEG6	
Explanation	PAGE		MODE		RESERVED		Use of external temperature sensor		Use of central control		RPM setting compensation	
Remote Controller Display			Auto ON 28		Auto ON 88		Cool ON 88		Cool ON 88		Dry ON 88	
Indication and Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	0. Not used 1. High ceiling mode 2. High ceiling kit 3. Low noise operation mode	
	0		2				0	Disuse	0	Disuse		
							1	Use	1	Use		
Option	SEG7		SEG8		SEG9		SEG10		SEG11		SEG12	
Explanation	PAGE		Use of drain pump		Use of hot water heater		Use of electronic heater		Opening the electronic expansion valve of an indoor unit when heating operation stops.		Master / Slave	
Remote Controller Display			Dry ON 88		Fan ON 88		Fan ON 88		Heat ON 88		Heat ON 88	
Indication and Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details
	1		0	Disuse	0	Disuse	0	Disuse	0	0	0	slave
			1	Use	1	Use	1	Use	1	80	1	master
			2	Use + 3minute delay								
Option	SEG13		SEG14		SEG15		SEG16		SEG17		SEG18	
Explanation	PAGE		Use of external control		Setting the output of external control		S-Plasma ion		Buzzer control		Number of hours using filter	
Remote Controller Display			Auto OFF 88		Auto OFF 88		Cool OFF 88		Cool OFF 88		Dry OFF 88	
Indication and Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details
	2		0	Disuse	0	Thermo on	0	Disuse	0	Mixed operation control1/Use buzzer	2	1000 Hour
			1	ON/OFF Control	1	Operation on	1	Use	1	Mixed operation control1/ Disuse of buzzer	6	2000 Hour
			2	OFF Control					2	Mixed operation control2/Use buzzer		
										3	Mixed operation control2/ Disuse of buzzer	

Setting an indoor unit address & installation option

Option	SEG19		SEG20		SEG21		SEG22		SEG23		SEG24	
Explanation	PAGE		Individual control of a remote controller		Heating setting compensation		EEV opening of an indoor unit stopped during oil return or defrost operation.		Motion detect sensor			
Remote Controller Display												
Indication and Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	0. No Use (Factory Setting) 1. Standard Mode/ Auto Set OFF 30 Min. 2. Standard Mode/ Auto Set OFF 60 Min. 3. Standard Mode/ Auto Set OFF 120 Min. 4. Standard Mode/ Auto Set OFF 180 Min. 5. Premium Mode/ Auto Set OFF 30 Min. 6. Premium Mode/ Auto Set OFF 60 Min. 7. Premium Mode/ Auto Set OFF 120 Min. 8. Premium Mode/ Auto Set OFF 180 Min.		Indication	Details
	3		0 or 1	channel 1	0	Disuse	0	150 step				
			2	channel 2	1	2°C						
			3	channel 3	2	5°C						
Indication and Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details			Indication	Details
			4	channel 4			1	0 step				

7-4. Changing a particular option

You can change each digit of set option.

Option	SEG1		SEG2		SEG3		SEG4		SEG5		SEG6	
Explanation	PAGE		MODE		The option mode you want to change		The tens' digit of an option SEG you will change		The unit digit of an option SEG you will change		The changed value	
Remote Controller Display												
Indication and Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details
	0		D		Option mode	0~F	Tens' digit of SEG	0~9	Unit digit of SEG	0~9	The changed value	0~F

✓ Note

- ◆ When changing a digit of an indoor unit address setting option, set the SEG3 as 'A'.
- ◆ When changing a digit of indoor unit installation option, set the SEG3 as '2'.

Ex) When setting the 'buzzer control' into disuse status.

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

8-1. Error code

Code	Explanation
E101	Indoor unit communication error
E102	Indoor/Outdoor unit communication time out error 60 packet over data
E121	Indoor temp. sensor (open/short error)
E122	Indoor unit eva. in temp. sensor (open/short error)
E128	Indoor unit eva. in sensor separation
E129	Indoor unit eva. out sensor separation.
E153	Indoor float switch 2nd detection
E201	Unit quantity miss matching between indoor unit and outdoor unit
E202	Abnormal state or 1 min. time out comm. between indoor unit and outdoor unit
E203	Communication error between outdoor main & inverter micom. (occurred after 1 minute detection in main & Inverter)
E221	Outdoor temp sensor error
E231	Cond. temperature sensor error (open/short error)
E237	Cond. temperature sensor error (open/short error)
E251	Discharge temperature sensor error (open/short error)
E320	OLP sensor error
E403	Detection of outdoor freezing when comp stop
E404	Protection of outdoor overload when comp stop
E416	Discharge over temperature error when comp stop
E419	EEV open error (self diagnosis)
E422	EEV close error (self diagnosis)
E425	Power cable misconnection error
E440	Out of operation temperature range in heating
E441	Out of operation temperature range in cooling
E458	Outdoor fan 1 error
E460	Outdoor unit ~ indoor unit communication wire misconnection (connected to power terminal)
E461	Compressor starting error
E462	Current trip error / PFC over current
E463	OLP over heat and comp stop
E464	IPM over current(o.c) error
E465	Compressor over load error
E466	DC-link under/over voltage error
E467	Compressor wire missing error
E468	Current sensor error
E469	DC link voltage sensor error
E471	Outdoor EEPROM error
E472	Inverter micom zero-crossing error
E473	Compressor lock error
E474	Heat-sink sensor error
E475	Outdoor fan 2 error
E483	Over AC-voltage error
E484	PFC over load error
E485	Input-current sensor error
E500	Heat-sink over heat error
E554	Gas leak error
E556	Capacity miss matching between indoor unit and outdoor unit
E557	Option code miss matching among the indoor units (for DPM only)
E601	Communication error between indoor unit & wired remote control.
E602	Communication error between master & slave wired remote control.
E606	COM1/COM2 cross-installed error
ER	Error of setting option for wired remote control COM2

SAMSUNG

2012. 05
DB98-11073F(4)



Samsung Electronics Co., LTD.
Air Conditioning Marketing Group / SE

Head Office (Suwon Korea) 416, Maetan-3Dong, Yeongtong-Gu, Suwon City, Gyeonggi-Do, Korea 443-742
Website : www.dvmsystem.com Email: airconditioner@samsung.com

* Images and data in this book may subject to change without prior notice.