

CAC

Technical Data Book

CAC Inverter (50Hz)

SAMSUNG



CAC

CAC Technical Data Book

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Technical Data Book

I. Products

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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

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

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 Nomenclature

1-3. Outdoor Unit

New Model Name



① Classification

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

② Capacity

x 1/10 kW (3 digits)

③ Product Notation

P	Inverter Premium
D	Inverter Deluxe
Z	Flagship

④ Mode

C	Cooling Only
H	Heat Pump

⑤ Refrigerant

X	R410A
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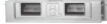
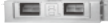
⑥ Rating Voltage

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

⑦ Version

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

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 Line-up

2-2. Outdoor Unit

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

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

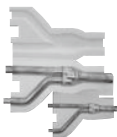
2-3. DPM(Digital Pack Multi)

Type		Capacity	14.0kW	
		Type	Outdoor Unit	Indoor Unit
Smart Inverter	Premium	1Phase	RC140PHXEA	NS0714DXEA (x 2ea)
		3Phase	RC140PHXGA	
	Deluxe	1Phase	RC140DHXEB	
		3Phase	RC140DHXGA	

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	Controller	Wireless remote controller		MR-DH00	
		Wired remote controller		MWR-WE10	
		Wired remote controller		MWR-WH00	
		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	

3 Accessory

Classification	Description	Model Name	Image
Y-joint	15kW and below (for DPM Models)	MXJ-YA1509*	
Front Panel	Slim 1 way cassette	PSSMA	
	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	
S-Plasma ion Kit	4way cassette S	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	

II. Specifications

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3	4 way cassette S.....	35
4	Slim duct.....	71
5	MSP (Middle static pressure) duct.....	83
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Specifications



1 Slim 1 way cassette

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1 Slim 1 way cassette

1-1. Specifications

1) Technical specifications

Model Name		Indoor Unit		SH026EAV1		SH035EAV1			
		Outdoor Unit		UH026EAV1		UH035EAV1			
System	Mode		-		Heat Pump		Heat Pump		
	Capacity	Capacity (Nominal)	Cooling ¹⁾	kW	1.0 / 2.6 / 3.5		1.0 / 3.5 / 4.1		
			(Min / Std / Max)		3,300 / 8,900 / 11,900		3,300 / 11,900 / 14,000		
			Heating ²⁾	Btu/h	1.0 / 3.3 / 4.6		1.0 / 4.0 / 4.8		
			(Min / Std / Max)		3,200 / 11,300 / 15,700		3,200 / 13,600 / 16,200		
	Power	Power Input (Nominal)	Cooling ¹⁾	kW	0.25 / 0.7 / 1.12		0.25 / 1.14 / 1.42		
			(Min / Std / Max)		0.21 / 0.91 / 1.3		0.21 / 1.16 / 1.39		
			Current Input (Nominal)	Cooling ¹⁾	A	1.6 / 3.3 / 5.2		1.6 / 5.3 / 6.6	
				(Min / Std / Max)		1.4 / 5.3 / 6.4		1.4 / 5.5 / 6.8	
		COP	Nominal Cooling		-	3.74		3.07	
			Nominal Heating		-	3.63		3.45	
	Energy Grade		Cooling / Heating	-	A / A		B / B		
	Option Code		-		078775-1380F8		077775-15824D		
	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	-	Crossflow Fan / SSR		Crossflow Fan / SSR			
		Motor	Output	kW	20		20		
		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	280 / 250 / 210		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 / 27.5 / 25		32 / 29.5 / 27		
	External Dimension	Net Weight		kg	10		10		
		Shipping Weight		kg	13		13		
		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		PSSMA		
		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	-	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		36		
		Shipping Weight		kg	38		38		
		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 a dead room. Thus actual noise level may be different depending on the installation conditions.

1-2. Capacity tables

1) SH026EAV1

(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	2.68	1.90	0.41	2.90	1.98	0.61	3.26	2.26	0.93	2.31	1.84	0.70	2.57	1.93	1.25
16	22	2.88	1.90	0.43	3.04	1.95	0.61	3.42	2.22	0.93	2.42	1.82	0.70	2.71	1.91	1.27
18	25	3.00	2.00	0.43	3.18	2.05	0.62	3.59	2.34	0.93	2.54	1.91	0.70	2.84	2.00	1.27
19	27	3.06	2.10	0.43	3.24	2.16	0.62	3.67	2.48	0.93	2.60	2.02	0.70	2.91	2.13	1.27
22	30	3.24	2.02	0.44	3.45	2.08	0.62	3.91	2.40	0.94	2.78	1.96	0.71	3.11	2.06	1.27
24	32	3.37	1.96	0.44	3.58	2.03	0.63	4.06	2.34	0.94	2.89	1.92	0.71	3.25	2.01	1.29

(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		2.07	0.95	2.86	1.04	3.03	1.12	3.17	1.05	3.39	0.89	3.61	0.95
18		2.22	0.96	2.78	1.06	2.97	1.17	3.13	1.06	3.35	0.90	3.56	0.95
20		2.31	0.98	2.72	1.07	2.93	1.18	3.08	1.06	3.30	0.91	3.52	0.96
21		2.36	0.98	2.70	1.07	2.89	1.18	3.06	1.08	3.28	0.91	3.49	0.97
22		2.50	0.98	2.66	1.07	2.87	1.20	3.03	1.08	3.25	0.91	3.47	0.97
24		2.60	0.99	2.61	1.09	2.81	1.21	2.98	1.09	3.21	0.92	3.42	0.98

2) SH035EAV1

(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	3.26	2.35	0.78	3.45	2.44	0.90	3.69	2.52	1.16	3.10	2.47	1.16	2.56	2.00	1.25
16	22	3.50	2.35	0.81	3.62	2.40	0.90	3.86	2.48	1.16	3.27	2.44	1.16	2.70	1.98	1.27
18	25	3.64	2.47	0.81	3.79	2.52	0.92	4.05	2.61	1.16	3.42	2.57	1.16	2.83	2.08	1.27
19	27	3.72	2.60	0.81	3.86	2.66	0.92	4.15	2.77	1.16	3.50	2.72	1.16	2.90	2.21	1.27
22	30	3.94	2.50	0.83	4.11	2.56	0.92	4.42	2.68	1.18	3.73	2.64	1.18	3.10	2.14	1.27
24	32	4.10	2.43	0.83	4.27	2.50	0.93	4.59	2.61	1.18	3.90	2.58	1.18	3.24	2.09	1.29

(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		2.25	1.23	3.48	1.34	3.68	1.43	3.85	1.35	4.10	1.13	4.37	1.23
18		2.41	1.25	3.39	1.37	3.61	1.50	3.81	1.36	4.06	1.15	4.32	1.23
20		2.51	1.27	3.31	1.38	3.56	1.51	3.74	1.36	4.00	1.16	4.27	1.24
21		2.56	1.27	3.28	1.38	3.51	1.51	3.71	1.38	3.97	1.16	4.23	1.25
22		2.72	1.27	3.24	1.38	3.49	1.53	3.67	1.38	3.94	1.16	4.21	1.25
24		2.83	1.28	3.17	1.40	3.42	1.55	3.62	1.40	3.90	1.17	4.15	1.27

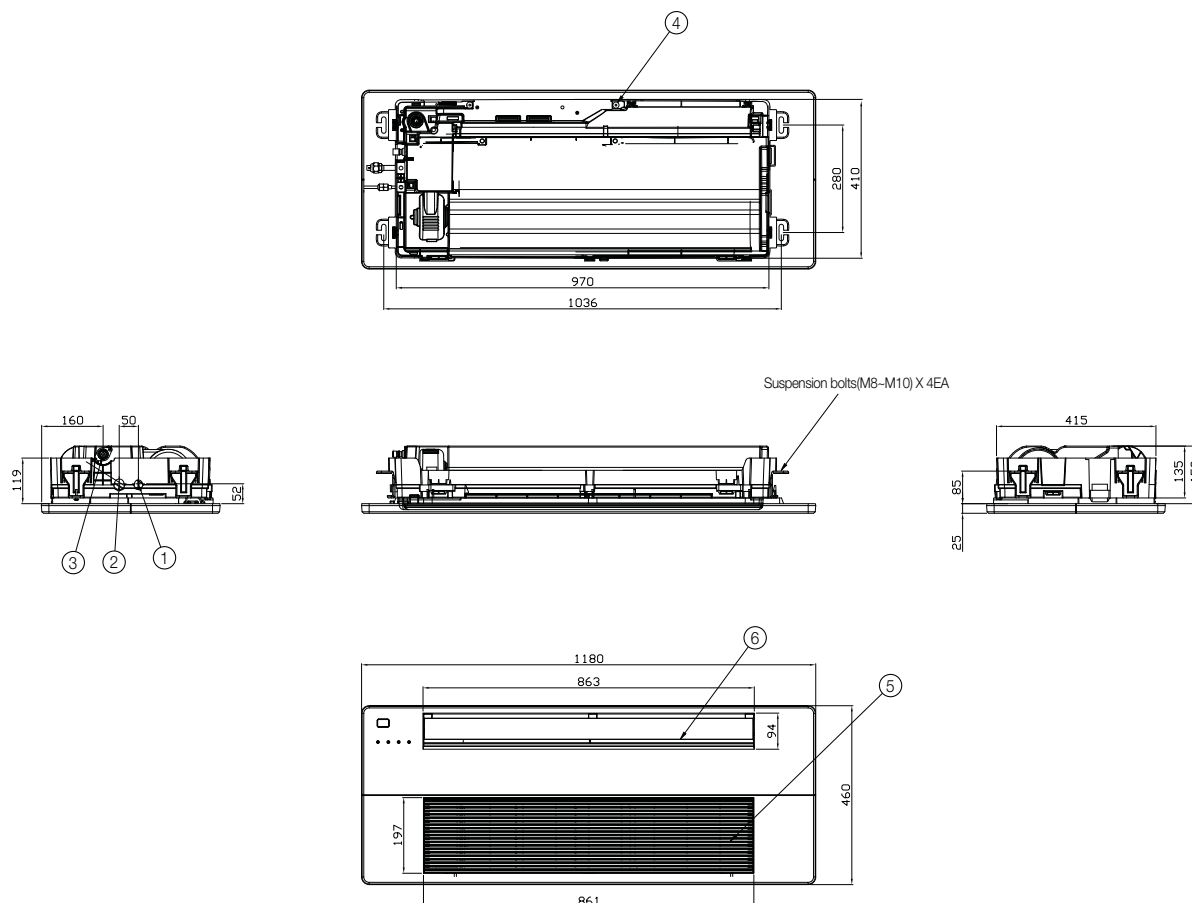
Note

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

1 Slim 1 way cassette

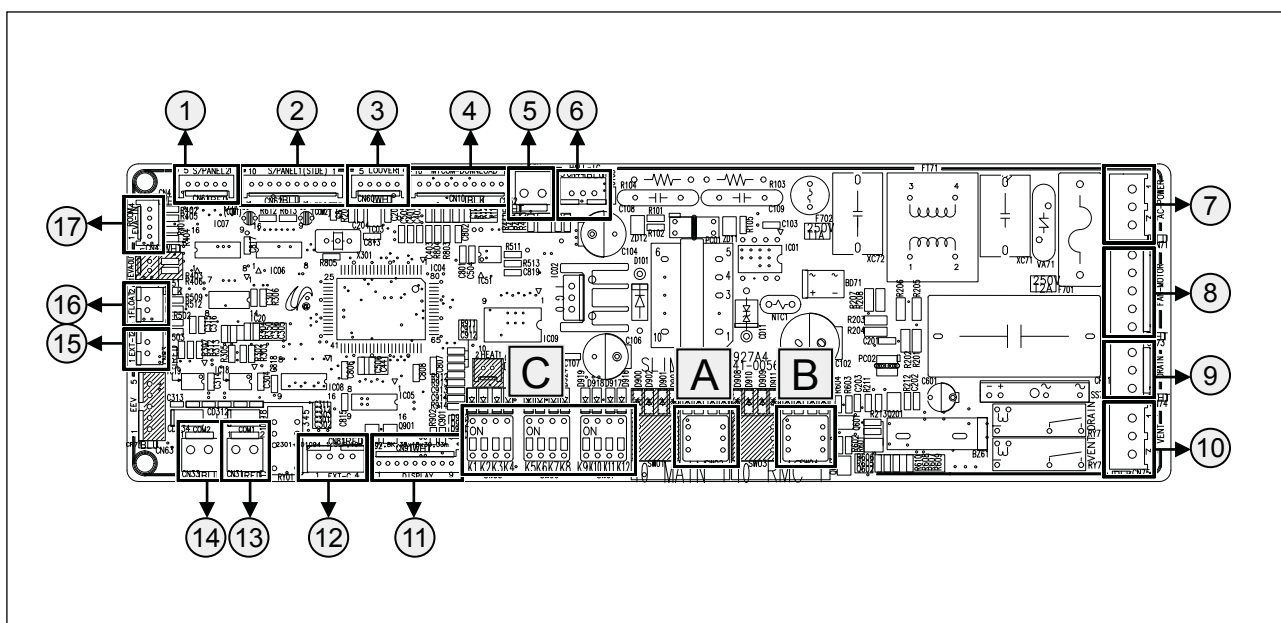
1-3. Dimensional drawing

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 (OD25, ID20)	
④	Conduit for power supply & communication wiring	-	
⑤	Air inlet grille	-	
⑥	Air outlet louver	-	

1-4. PCB connector lay-out



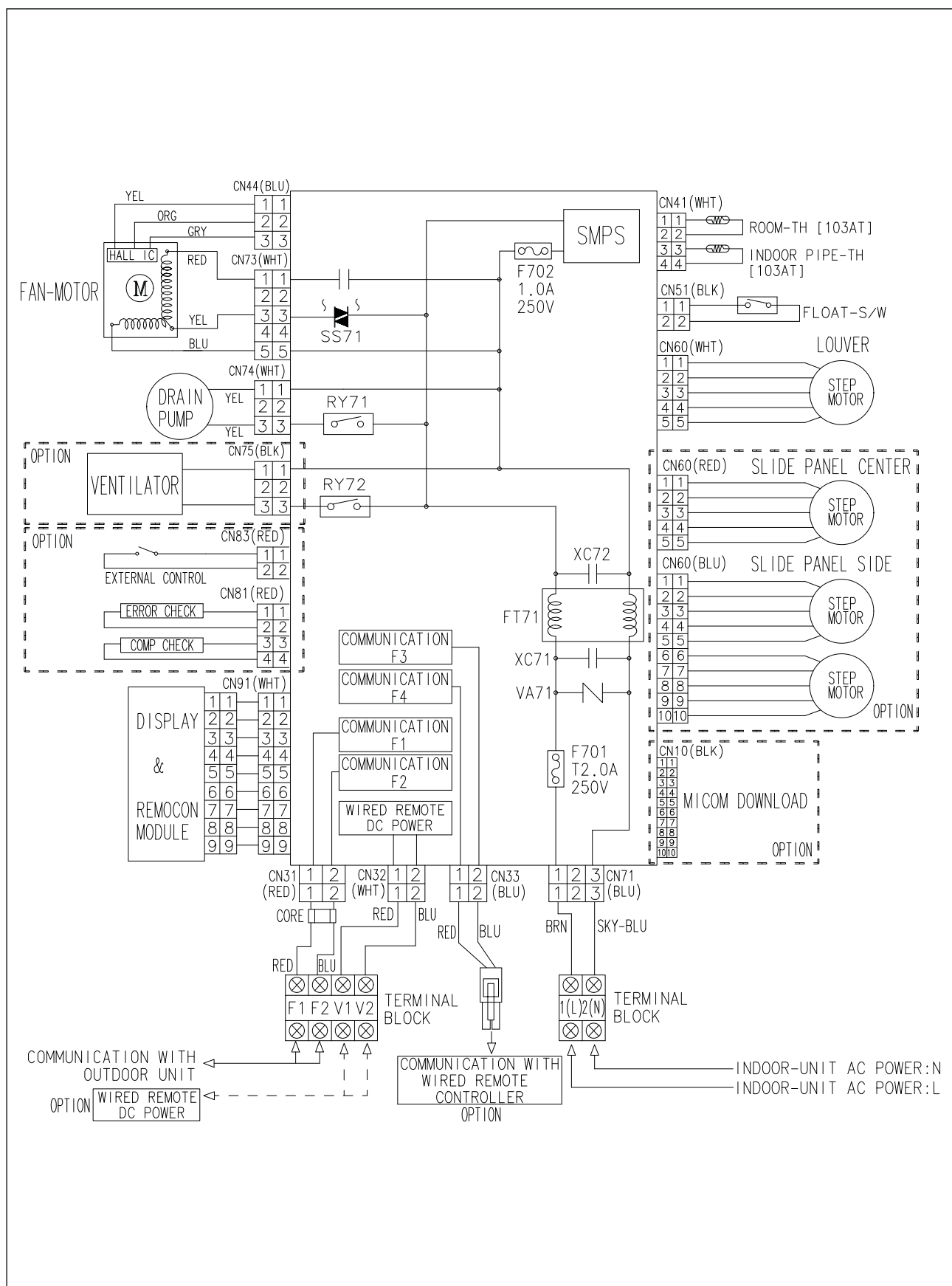
No.	CN #	Color	Function
①	CN61	Red	Sliding Panel 1 (for Sliding Panel)
②	CN62	Blue	Sliding Panel 2 (for Sliding Panel)
③	CN60	White	Louver
④	CN10	Black	Micom-Download
⑤	CN32	White	DC 12V Output (for Wired Remote Controller)
⑥	CN44	Blue	Hall-IC (RPM Feedback)
⑦	CN71	Blue	AC-Power Input
⑧	CN73	White	Fan-Motor Output
⑨	CN74	White	Drain Motor Output
⑩	CN75	Black	Ventilator Output
⑪	CN91	White	Panel Display Receiver
⑫	CN81	Red	Error Check, Indoor Unit Operation
⑬	CN31	Red	Communication 1 (IDU-ODU)
⑭	CN33	Blue	Communication 2 (IDU-Wired Remote Controller)
⑮	CN83	Red	External Contact Control (On/Off)
⑯	CN51	Black	Float S/W Sensor
⑰	CN41	White	Indoor Unit Temp. Sensor (Room Temp, EVA-In Temp.)

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	Master/Slave	Slave	Master
	K11	External Contact Control	Not Use	Use
	K12	External Control Output	Thermo On	Operation On

1 Slim 1 way cassette

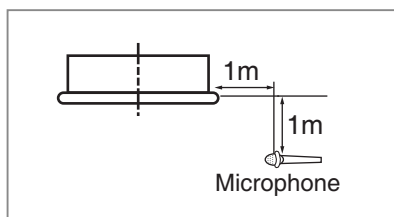
1-5. Electrical wiring diagram



1-6. Sound pressure level

1) Operation sound level

Unit : dB(A)



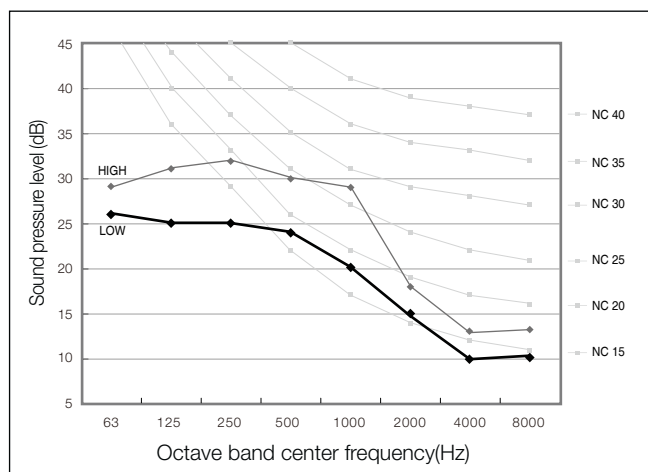
Model	High	Low
SH026EAV1	30	25
SH035EAV1	32	27

☒ Note

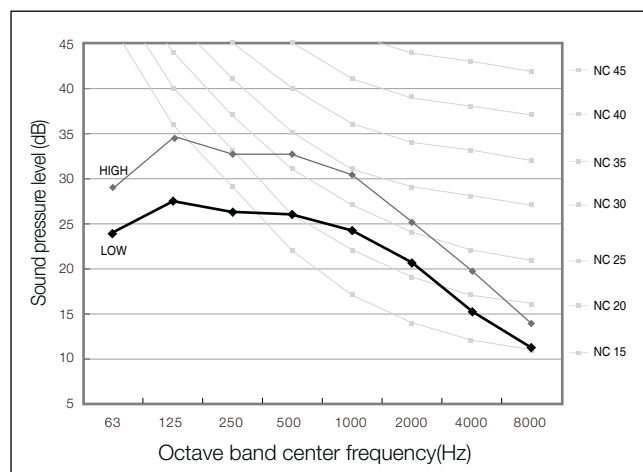
- ◆ These operation values were obtained in a dead room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- ◆ Operation sound level may differ depending on operation and ambient conditions.

2) NC curves

(1) SH026EAV1



(2) SH035EAV1



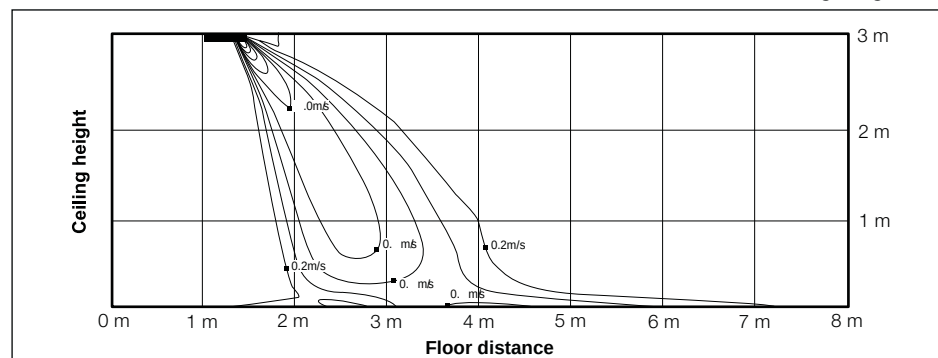
1 Slim 1 way cassette

1-7. Temperature and air flow distribution

1) SH035EAV*

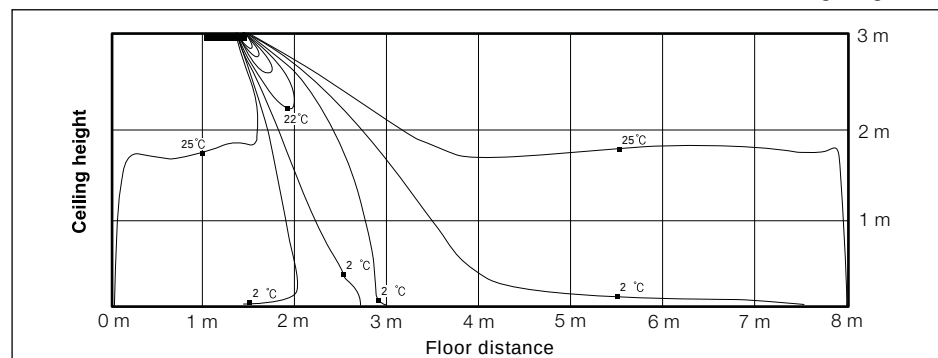
(1) Cooling air velocity distribution

◆ Discharge angle : 60°



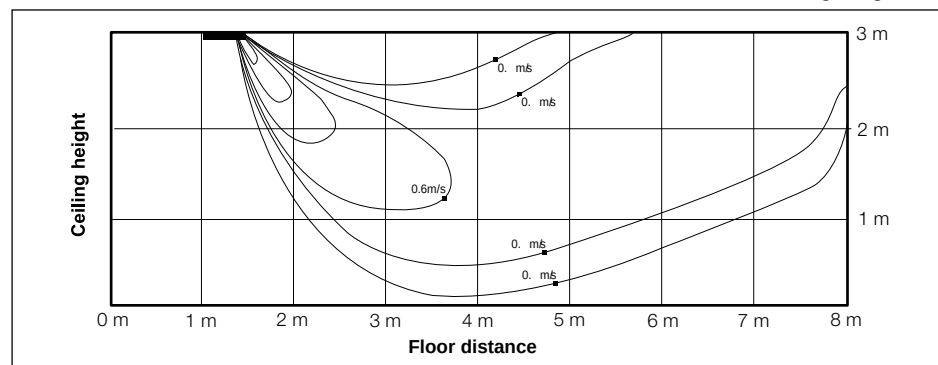
(2) Cooling temperature distribution

◆ Discharge angle : 60°



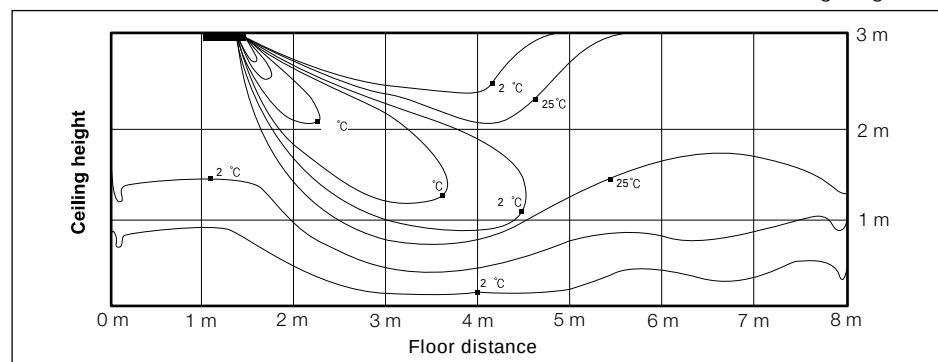
(3) Heating air velocity distribution

◆ Discharge angle : 60°



(4) Heating temperature distribution

◆ Discharge angle : 60°





2 Mini 4 way cassette

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2 Mini 4 way cassette

2-1. Specifications

1) Technical specifications

Model Name		Indoor Unit		Outdoor Unit		TH026EAV1	TH035EAV1	TH052EAV1	TH060EAV1
						UH026EAV1	UH035EAV1	UH052EAV1	UH060EAV1
System	Mode			-		Heat Pump	Heat Pump	Heat Pump	Heat Pump
	Capacity	Capacity (Nominal)	Cooling ^{*)}	kW	0.99 / 2.6 / 3.5	1.0 / 3.5 / 4.2	1.6 / 4.7 / 6.0	1.8 / 5.8 / 6.5	
			(Min / Std / Max)	Btu/h	3,400 / 8,900 / 12,300	3,400 / 11,900 / 14,300	5,500 / 16,000 / 20,500	6,100 / 19,800 / 22,200	
			Heating ^{*)}	kW	0.98 / 3.3 / 4.6	1.0 / 4.0 / 5.0	1.3 / 5.5 / 9.0	1.8 / 7.0 / 10.0	
			(Min / Std / Max)	Btu/h	3,300 / 11,300 / 15,700	3,300 / 13,600 / 17,100	4,400 / 18,800 / 30,700	6,100 / 23,900 / 34,100	
	Power	Power Input (Nominal)	Cooling ^{*)}	kW	0.26 / 0.73 / 1.1	0.26 / 1.09 / 1.4	0.5 / 1.46 / 2.2	0.55 / 1.93 / 2.1	
			(Min / Std / Max)		0.24 / 0.9 / 1.4	0.25 / 1.1 / 1.4	0.48 / 1.59 / 3.2	0.51 / 2.18 / 3.7	
		Current Input (Nominal)	Cooling ^{*)}	A	1.6 / 3.4 / 5.1	1.6 / 5 / 6.4	2.4 / 6.7 / 10	2.7 / 8.8 / 9.4	
			(Min / Std / Max)		1.5 / 4.3 / 6.6	1.5 / 5.1 / 6.7	2.6 / 7.4 / 15	2.6 / 10.5 / 16.6	
	COP	Nominal Cooling		-	3.56	3.21	3.22	3.01	
		Nominal Heating		-	3.67	3.64	3.46	3.21	
		Energy Grade		-	A / A	A / A	A / B	B / C	
	Option Code				-	045771-1383D9	045773-158109	048774-198080	045774-1B80D5
	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)	12.7 (1/2)	15.88 (5/8)	
		Installation Limitation	Max. Length	m	20.0	20.0	50.0	50.0	
			Max. Height	m	15.0	15.0	30.0	30.0	
	Refrigerant	Type		-	R410A	R410A	R410A	R410A	
Control Method		-	EEV	EEV	EEV	EEV			
Factory Charging		kg	0.95	0.95	1.45	1.50			
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		-	Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan	
		Motor	Output	kW	35	35	35	35	
				EA	1	1	1	1	
		Air Flow Rate	High / Mid / Low	CMM	11.0 / 10.0 / 9.0	12.0 / 11.0 / 10.0	12.9 / 12.0 / 11.0	13.6 / 12.5 / 11.5	
				CFM	388 / 353 / 318	424 / 388 / 353	456 / 424 / 388	480 / 441 / 406	
		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 ^{*)}	High / Mid / Low	dB(A)	30 / 27.5 / 25	34 / 31 / 27	41 / 37 / 33	41 / 37 / 33	
	External Dimension	Net Weight		kg	17	17	17	17	
		Shipping Weight		kg	20	20	20	20	
		Net Dimensions (WxHxD)		mm	575 x 260 x 575	575 x 260 x 575	575 x 260 x 575	575 x 260 x 575	
		Shipping Dimensions (WxHxD)		mm	660 x 310 x 635	660 x 310 x 635	660 x 310 x 635	660 x 310 x 635	
	Panel Size	Panel model		-	PMSMA	PMSMA	PMSMA	PMSMA	
		Panel Net Weight		kg	3	3	3	3	
		Shipping Weight		kg	5	5	5	5	
		Net Dimensions (WxHxD)		mm	670 x 35 x 670	670 x 35 x 670	670 x 35 x 670	670 x 35 x 670	
Additional Accessories	Shipping Dimensions (WxHxD)		mm	717 x 93 x 717	717 x 93 x 717	717 x 93 x 717	717 x 93 x 717		
	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		-	Single BLDC Rotary	Single BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary	
		Model		-	G4C090LUDE	G4C090LUDE	G8T200FUAEW	G8T260FUAEW	
		Oil	Type	-	POE	POE	POE	POE	
	Initial Charge		cc	320	320	700	700		
	Fan	Air Flow Rate	Cooling / Heating	CMM	-	-	-	-	
				CFM	-	-	-	-	
	Sound	Sound Pressure ^{*)}	Cooling / Heating	dB(A)	47 / 47	47 / 47	49 / 49	52 / 52	
	External Dimension	Net Weight		kg	36	36	50	57	
		Shipping Weight		kg	38	38	53	61	
		Net Dimensions (WxHxD)		mm	790 x 548 x 285	790 x 548 x 285	880 x 638 x 310	880 x 798 x 310	
		Shipping Dimensions (WxHxD)		mm	938 x 610 x 382	938 x 610 x 382	1,023 x 704 x 413	1,038 x 861 x 413	
Operating Temp. Range	Cooling		°C	-10 ~ 43	-10 ~ 43	-15 ~ 43	-15 ~ 43		
	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 a dead room. Thus actual noise level may be different depending on the installation conditions.

2-2. Capacity tables

1) TH026EAV1

(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	2.69	2.06	0.51	2.96	2.21	0.65	3.24	2.34	0.89	2.31	1.84	0.73	2.46	1.97	1.23
16	22	2.89	2.06	0.53	3.10	2.18	0.65	3.39	2.30	0.89	2.43	1.82	0.73	2.59	1.95	1.25
18	25	3.01	2.17	0.53	3.25	2.29	0.67	3.56	2.42	0.89	2.54	1.90	0.73	2.71	2.05	1.25
19	27	3.07	2.28	0.53	3.31	2.41	0.67	3.64	2.57	0.89	2.60	2.02	0.73	2.78	2.18	1.25
22	30	3.25	2.19	0.54	3.53	2.32	0.67	3.88	2.49	0.90	2.77	1.95	0.74	2.97	2.11	1.25
24	32	3.38	2.13	0.54	3.66	2.26	0.68	4.03	2.42	0.90	2.89	1.91	0.74	3.10	2.06	1.27

(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		2.12	0.94	2.91	1.03	3.08	1.11	3.22	1.04	3.39	0.88	3.66	0.94
18		2.27	0.95	2.84	1.05	3.02	1.16	3.18	1.05	3.35	0.89	3.61	0.94
20		2.36	0.97	2.77	1.06	2.98	1.17	3.13	1.05	3.30	0.90	3.57	0.95
21		2.41	0.97	2.75	1.06	2.94	1.17	3.11	1.07	3.28	0.90	3.54	0.96
22		2.56	0.97	2.71	1.06	2.92	1.19	3.08	1.07	3.25	0.90	3.52	0.96
24		2.66	0.98	2.66	1.08	2.86	1.20	3.03	1.08	3.21	0.91	3.47	0.97

2) TH035EAV1

(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	3.49	2.70	0.77	3.67	2.85	0.90	3.89	2.90	1.15	3.10	2.48	1.09	2.65	2.33	1.27
16	22	3.74	2.70	0.80	3.85	2.80	0.90	4.07	2.85	1.15	3.26	2.44	1.09	2.80	2.30	1.29
18	25	3.90	2.83	0.80	4.03	2.94	0.92	4.27	3.00	1.15	3.42	2.56	1.09	2.93	2.42	1.29
19	27	3.98	2.98	0.80	4.11	3.10	0.92	4.37	3.18	1.15	3.50	2.72	1.09	3.00	2.57	1.29
22	30	4.22	2.86	0.82	4.38	2.99	0.92	4.65	3.08	1.17	3.74	2.63	1.11	3.20	2.49	1.29
24	32	4.38	2.79	0.82	4.55	2.91	0.93	4.84	3.00	1.17	3.90	2.58	1.11	3.35	2.43	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		2.25	1.16	3.48	1.27	3.68	1.36	3.85	1.27	4.10	1.07	4.37	1.15
18		2.41	1.17	3.39	1.29	3.61	1.42	3.81	1.28	4.06	1.09	4.32	1.15
20		2.51	1.19	3.31	1.30	3.56	1.43	3.74	1.28	4.00	1.10	4.27	1.16
21		2.56	1.19	3.28	1.30	3.51	1.43	3.71	1.30	3.97	1.10	4.23	1.17
22		2.72	1.19	3.24	1.30	3.49	1.45	3.67	1.30	3.94	1.10	4.21	1.17
24		2.83	1.20	3.17	1.32	3.42	1.47	3.62	1.31	3.90	1.11	4.15	1.19

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) TH052EAV1

(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	4.75	3.59	0.85	5.11	3.77	1.08	5.89	4.10	1.70	4.17	3.33	1.46	4.73	3.52	2.47
16	22	5.09	3.59	0.89	5.36	3.71	1.08	6.17	4.03	1.70	4.39	3.28	1.46	4.99	3.48	2.50
18	25	5.30	3.77	0.89	5.62	3.90	1.10	6.47	4.24	1.70	4.59	3.45	1.46	5.22	3.66	2.50
19	27	5.41	3.97	0.89	5.72	4.11	1.10	6.62	4.50	1.70	4.70	3.66	1.46	5.35	3.89	2.50
22	30	5.73	3.81	0.91	6.10	3.96	1.10	7.05	4.36	1.72	5.01	3.54	1.48	5.71	3.76	2.50
24	32	5.96	3.71	0.91	6.33	3.86	1.12	7.33	4.24	1.72	5.23	3.47	1.48	5.97	3.68	2.55

(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		3.35	2.03	4.69	1.79	4.98	1.93	5.20	1.82	5.65	1.55	5.93	1.60
18		3.59	2.05	4.57	1.82	4.88	2.02	5.14	1.84	5.58	1.57	5.85	1.60
20		3.74	2.09	4.46	1.84	4.81	2.04	5.05	1.84	5.50	1.59	5.79	1.62
21		3.82	2.09	4.42	1.84	4.75	2.04	5.01	1.87	5.46	1.59	5.74	1.64
22		4.05	2.09	4.36	1.84	4.71	2.07	4.96	1.87	5.42	1.59	5.71	1.64
24		4.21	2.11	4.28	1.87	4.62	2.10	4.89	1.89	5.35	1.61	5.63	1.66

4) TH060EAV1

(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	5.62	4.03	0.88	5.82	4.15	1.18	5.91	4.16	1.56	5.14	4.11	1.93	4.69	3.58	2.33
16	22	6.03	4.03	0.92	6.10	4.08	1.18	6.18	4.09	1.56	5.42	4.04	1.93	4.94	3.53	2.36
18	25	6.28	4.23	0.92	6.39	4.29	1.21	6.49	4.31	1.56	5.67	4.25	1.93	5.17	3.72	2.36
19	27	6.41	4.45	0.92	6.51	4.52	1.21	6.64	4.57	1.56	5.80	4.51	1.93	5.30	3.95	2.36
22	30	6.79	4.27	0.94	6.94	4.36	1.21	7.07	4.43	1.58	6.18	4.36	1.96	5.66	3.82	2.36
24	32	7.06	4.16	0.94	7.20	4.24	1.23	7.35	4.31	1.58	6.46	4.27	1.96	5.91	3.74	2.41

(2) Heating

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

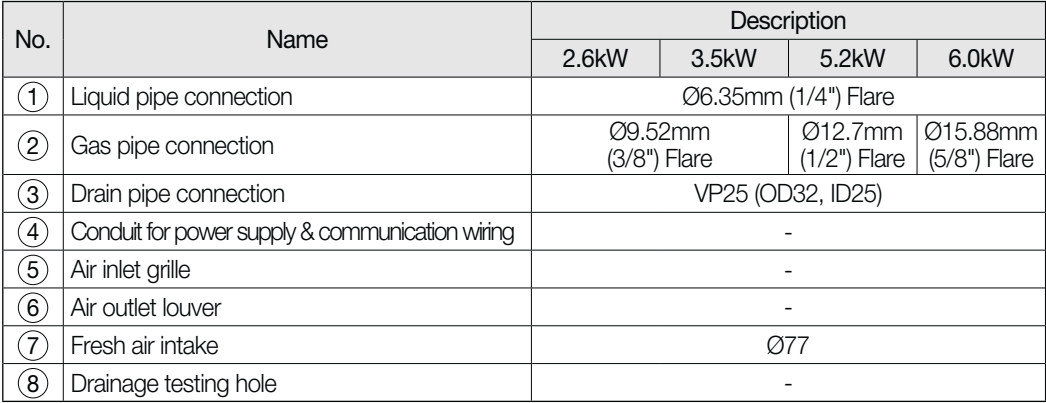
Indoor Temperature(°C)		Outdoor Temperature (°C, DB)											
		-20		-10		-5		2		7		24	
DB		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
16		4.30	2.22	5.95	2.45	6.32	2.65	6.61	2.45	7.19	2.13	7.54	2.20
18		4.61	2.25	5.79	2.49	6.20	2.76	6.53	2.48	7.10	2.15	7.44	2.20
20		4.80	2.29	5.66	2.52	6.11	2.79	6.42	2.48	7.00	2.18	7.36	2.23
21		4.90	2.29	5.62	2.52	6.03	2.79	6.38	2.52	6.96	2.18	7.29	2.26
22		5.20	2.29	5.54	2.52	5.99	2.83	6.31	2.52	6.90	2.18	7.26	2.26
24		5.41	2.32	5.43	2.56	5.86	2.87	6.22	2.55	6.81	2.21	7.16	2.28

☑ Note

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

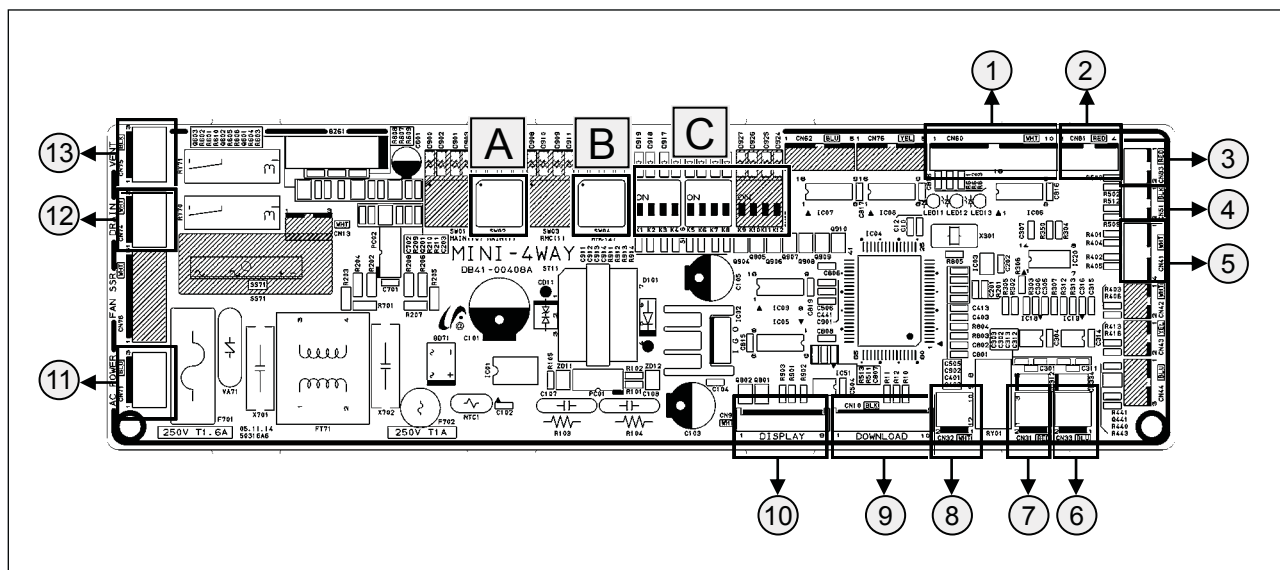
Specifications

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2 Mini 4 way cassette

2-4. PCB connector lay-out

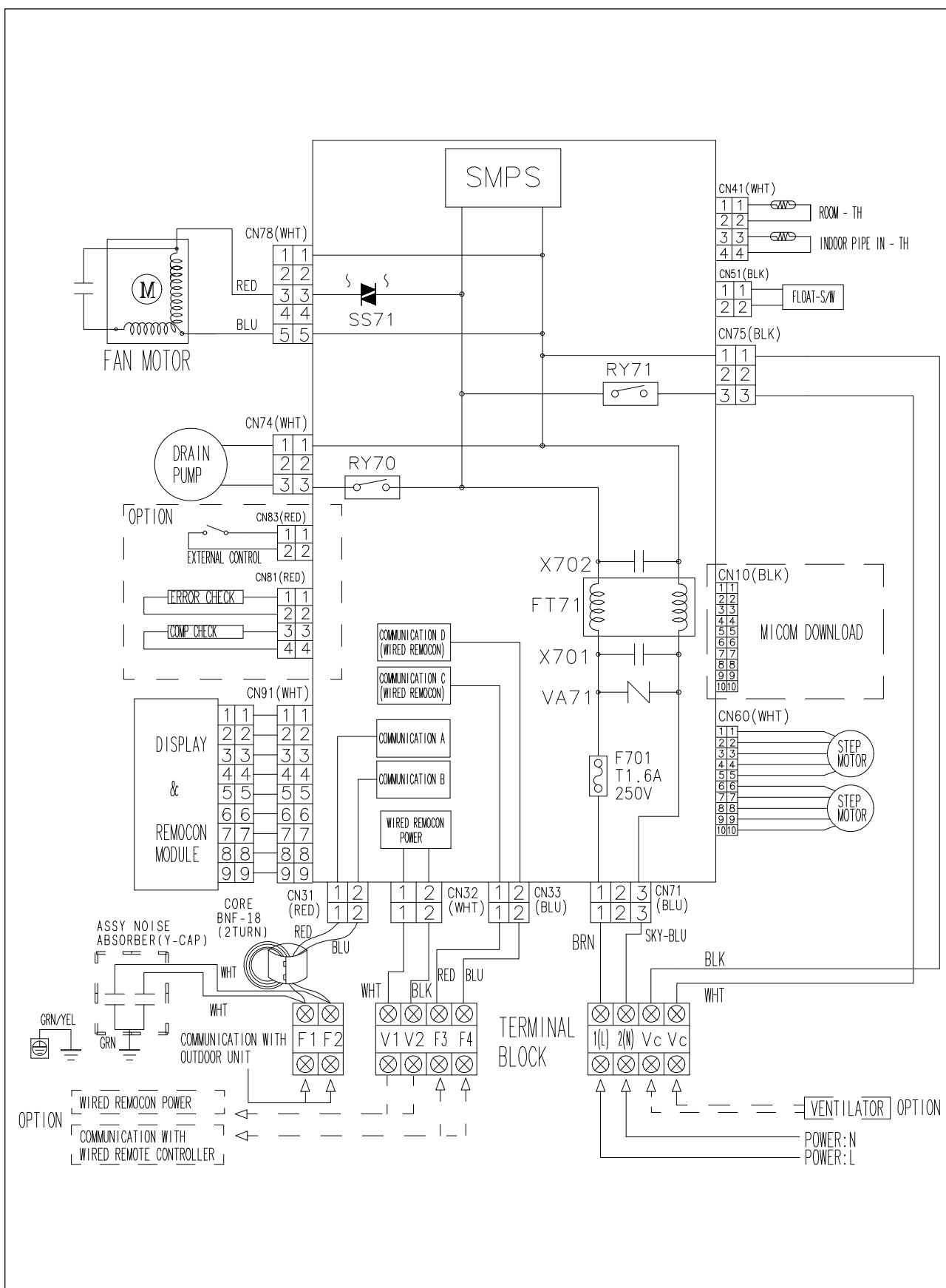


No.	CN #	Color	Function
①	CN60	White	Louver
②	CN81	Red	Error Check, Indoor Unit Operation
③	CN83	Red	External Contact Control (On/Off)
④	CN51	Black	Float Switch
⑤	CN41	White	Indoor Unit Temp. Sensor (Room Temp, EVA-In Temp.)
⑥	CN33	Blue	Communication 2 (IDU~Wired Remote Controller)
⑦	CN31	Red	Communication 1 (IDU~ODU)
⑧	CN32	White	DC 12V Output (for Wired Remote Controller)
⑨	CN10	Black	Micom-Download
⑩	CN91	White	Panel Display
⑪	CN71	Blue	AC-Power Input
⑫	CN74	White	Drain Motor Output
⑬	CN75	Black	Ventilator Output

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	+5°C	+2°C
	K6	Filter Signal Display	1,000Hrs	2,000Hrs
	K7	-	-	-
	K8	-	-	-
	K9	-	-	-
	K10	Master/Slave	Slave	Master
	K11	External Contact Control	Not Use	Use
	K12	External Control Output	Thermo On	Operation On

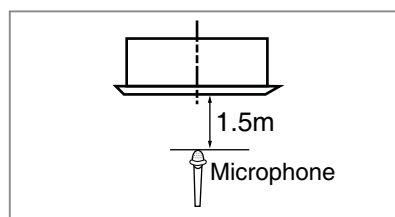
2-5 . Electrical wiring diagram



2 Mini 4 way cassette

2-6. Sound pressure level

1) Operation sound level



Unit : dB(A)

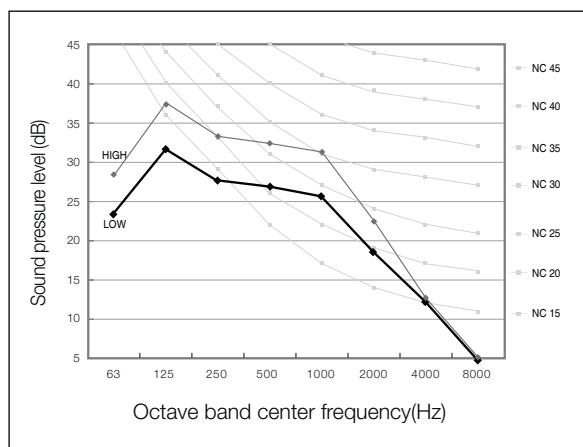
Model	High	Low
TH026EAV1	30	25
TH035EAV1	34	27
TH052EAV1	41	33
TH060EAV1	41	33

✓ Note

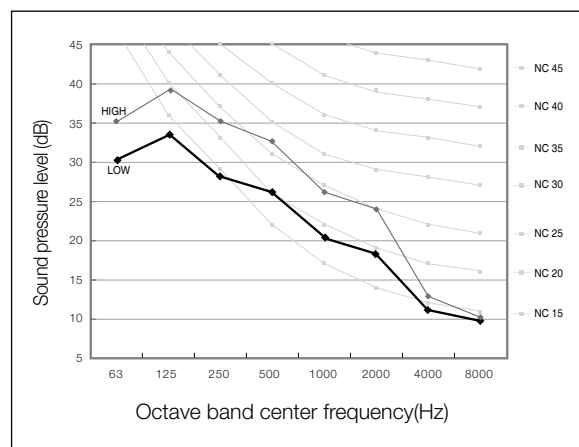
- ◆ These operation values were obtained in a dead room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- ◆ Operation sound level may differ depending on operation and ambient conditions.

2) NC curves

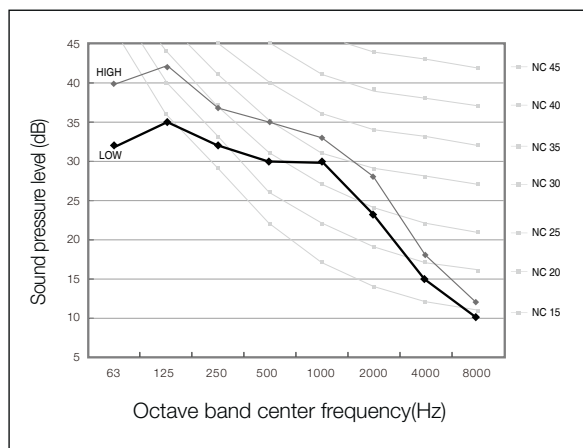
(1) TH026EAV1



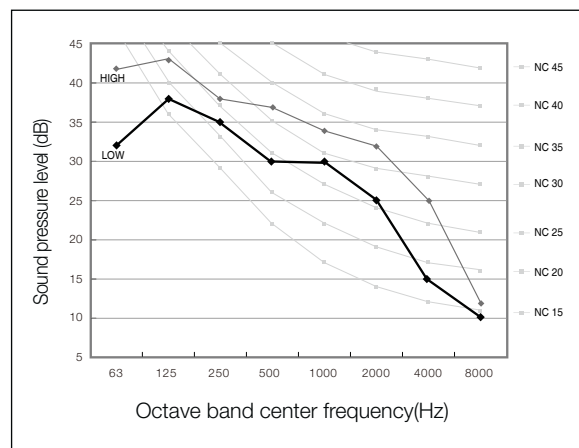
(2) TH035EAV1



(3) TH052EAV1



(4) TH060EAV1

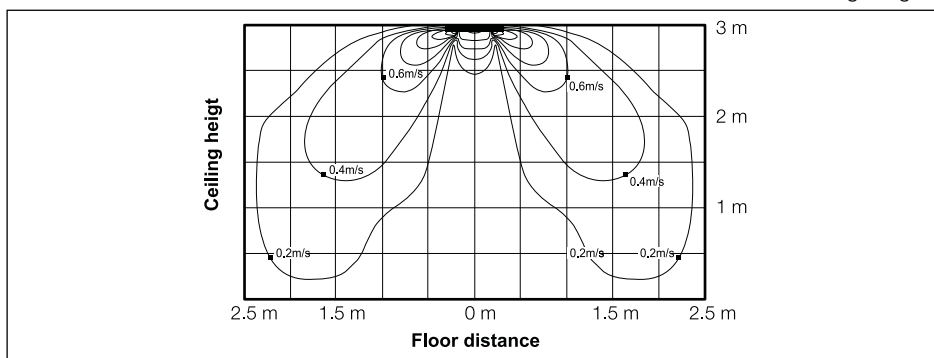


2-7. Temperature and air flow distribution

1) TH035EAV1

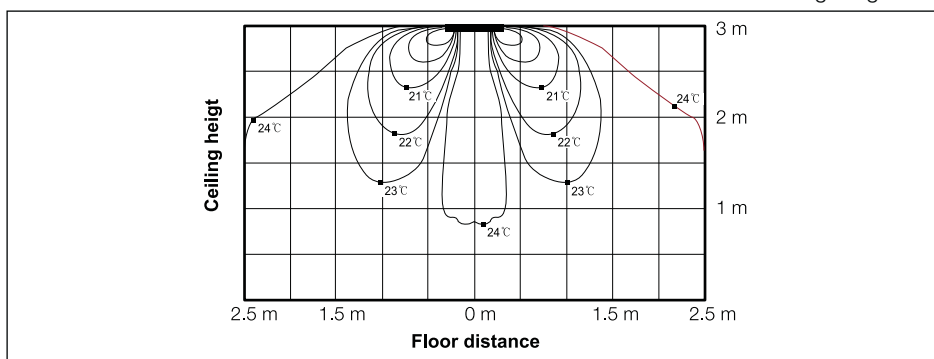
(1) Cooling air velocity distribution

◆ Discharge angle : 37°



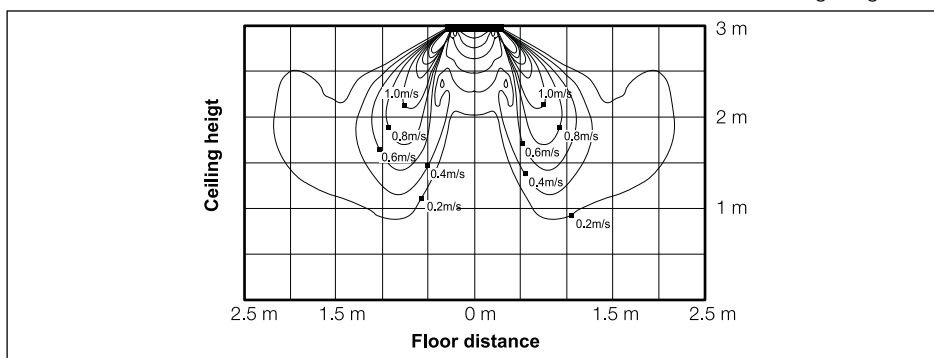
(2) Cooling temperature distribution

◆ Discharge angle : 37°



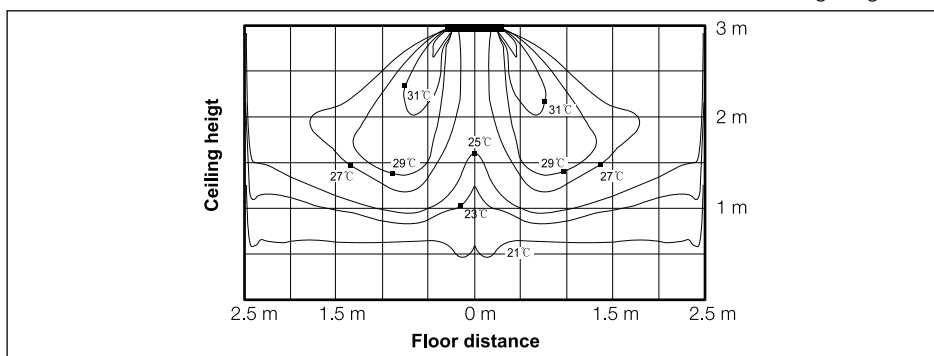
(3) Heating air velocity distribution

◆ Discharge angle : 49°



(4) Heating temperature distribution

◆ Discharge angle : 49°



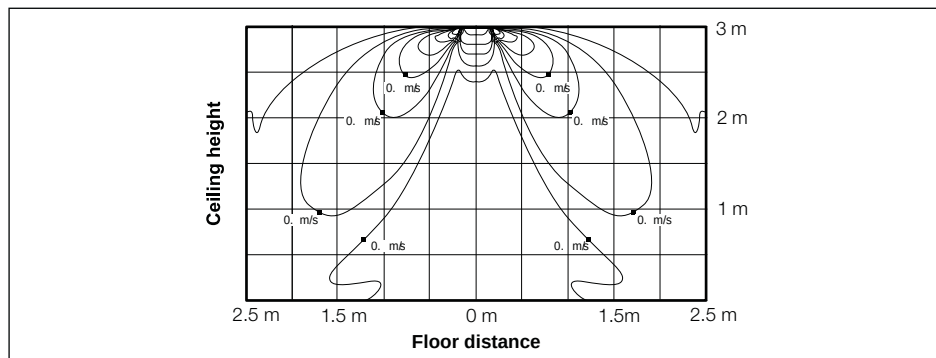
2 Mini 4 way cassette

2-7. Temperature and air flow distribution

2) TH060EAV1

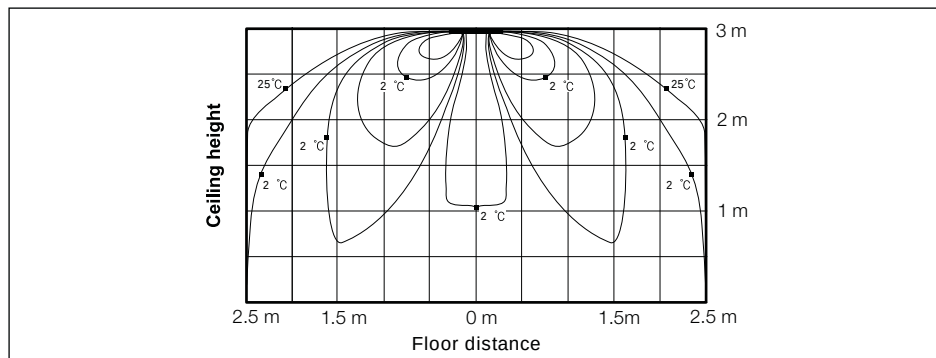
(1) Cooling air velocity distribution

◆ Discharge angle : 37°



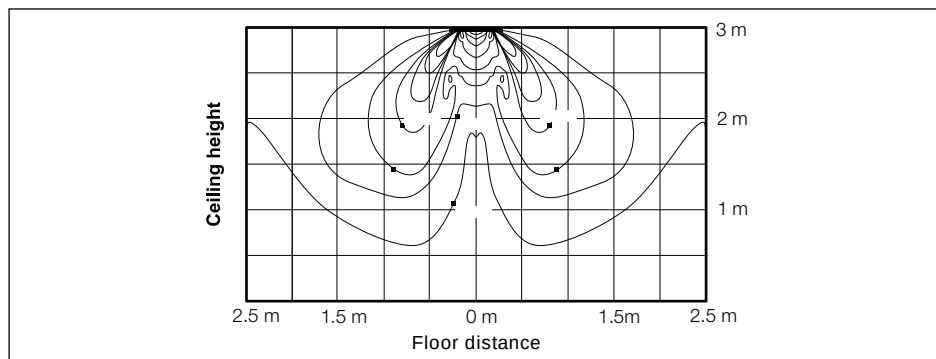
(2) Cooling temperature distribution

◆ Discharge angle : 37°



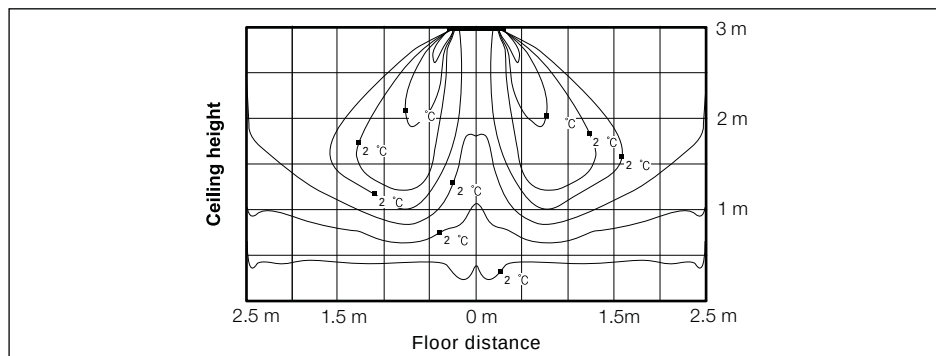
(3) Heating air velocity distribution

◆ Discharge angle : 49°



(4) Heating temperature distribution

◆ Discharge angle : 49°





3 4 way cassette S

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3 4 way cassette S

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	
			Heating ⁽²⁾	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	
			(Min / Std / Max)	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	
	Power	Power Input (Nominal)	Cooling ⁽¹⁾	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	
			Heating ⁽²⁾	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)	kW	0.35 / 2.22 / 4.00	0.35 / 1.95 / 4.00	0.46 / 2.77 / 5.2	0.48 / 2.5 / 5.2	
	COP	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	
			Heating ⁽²⁾	A	2.0 / 10.5 / 21.0	2.1 / 9.5 / 18.0	2.5 / 12.2 / 22.7	2.4 / 11.0 / 23.0	
(Min / Std / Max)			A	2.0 / 10.5 / 21.0	2.1 / 9.5 / 18.0	2.5 / 12.2 / 22.7	2.4 / 11.0 / 23.0		
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	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	kW	-	-	-	-
		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	
	Sound	Sound Pressure ⁽³⁾	Cooling / Heating	CFM	1,766 / 1,695	1,766 / 1,695	2,243 / 2,243	2,243 / 2,084	
				CFM	1,766 / 1,695	1,766 / 1,695	2,243 / 2,243	2,243 / 2,084	
				CFM	1,766 / 1,695	1,766 / 1,695	2,243 / 2,243	2,243 / 2,084	
	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 889 x 416	1,023 x 889 x 416	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 a dead room. Thus actual noise level may be different depending on the installation conditions.

Model Name		Indoor Unit		NS1004DXEA		NS1004DXEA		NS1004PXE		NS1004PXE		NS1004ZXE		
		Outdoor Unit		RC100DHXEA		RC100DHXGA		RC100PHXEA		RC100PHXGA		RC100ZHXE		
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		3.5 / 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		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	
			(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	
	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	
			Heating ²⁾		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	
			Heating ²⁾		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		014077-156249 -276470-3700040	
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	50.0		50.0		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	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		Turbo Fan / BLDC		
	Motor	Output	kW	-		-		-		-		-		
	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		
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		
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		Twin BLDC Rotary		
	Model		-	UG8T300FUBJU		UG5T450FUFJX		UG5T450FUEJX		UG5T450FUFJX		UG5T450FAXJX		
	Oil	Type	-	POE		POE		POE		POE		POE		
Fan	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			
Sound	Sound Pressure ³⁾	Cooling / Heating	dB(A)	52 / 53		52 / 53		49 / 51		49 / 51		49 / 51		
External Dimension	Net Weight		kg	72		81		88		91		98		
	Shipping Weight		kg	77		86		98		101		108		
	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		
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 a dead 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	Output	kW	-	-	-	-	-
		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	UG5T450FUEJX
		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 a dead room. Thus actual noise level may be different depending on the installation conditions.

Model Name		Indoor Unit		Outdoor Unit		NS1404DXEA	NS1404DXEA	NS1404PXEA	NS1404PXEA
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	4.4 / 14.0 / 15.5	4.4 / 14.0 / 15.5
			(Min / Std / Max)		11,900 / 47,800 / 52,900		11,900 / 47,800 / 52,900	15,000 / 47,800 / 52,900	15,000 / 47,800 / 52,900
			Heating ^{*2)}		3.5 / 16.0 / 18.0		3.5 / 16.0 / 18.0	3.5 / 16.0 / 20.0	3.5 / 16.0 / 20.0
			(Min / Std / Max)		11,900 / 54,600 / 61,400		11,900 / 54,600 / 61,400	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	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	0.87 / 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	4.6 / 17.8 / 24.0	2.1 / 7.1 / 12.0
			Heating ^{*2)}		3.5 / 20.0 / 24		2.1 / 7.4 / 16.1	4.0 / 18.7 / 28.0	2.0 / 7.2 / 16.1
	COP	Nominal Cooling		-	3.21		3.21	3.50	3.50
		Nominal Heating		-	3.61		3.61	3.90	3.90
		Energy Grade	Cooling / Heating	-	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
	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	75.0		75.0	75.0	75.0	
	Max. Height	m	30.0		30.0	30.0	30.0		
Refrigerant	Type		-	R410A		R410A	R410A	R410A	
	Control Method		-	EEV		EEV	EEV	EEV	
	Factory Charging		kg	3.4		3.4	3.8	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	
Fan	Type		-	Turbo Fan / BLDC		Turbo Fan / BLDC	Turbo Fan / BLDC	Turbo Fan / BLDC	
	Motor	Output	kW	-		-	-	-	
	Number of Unit		EA	1		1	1	1	
	Air Flow Rate	High / Mid / Low	CMM	30.0 / 25.5 / 20.5		30.0 / 25.5 / 20.5	32.0 / 26.0 / 21.0	32.0 / 26.0 / 21.0	
			CFM	1,059 / 901 / 724		1,059 / 901 / 724	1,130 / 918 / 742	1,130 / 918 / 742	
	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)	
Sound	Sound Pressure ^{*3)}		High / Mid / Low	dB(A)	45 / 41.5 / 38		45 / 41.5 / 38	45 / 41.5 / 38	
External Dimension	Net Weight		kg	21		21	21	21	
	Shipping Weight		kg	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	
	Shipping Dimensions (WxHxD)		mm	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	
	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	
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		-	UG5T450FUEJX		UG5T450FUFJX	UG5T450FXAJX	UG5T450FXAJX	
	Oil	Type	-	POE		POE	POE	POE	
		Initial Charge	cc	1,750		1,750	1,750	1,750	
Fan	Air Flow Rate	Cooling / Heating	CMM	90.5 / 90.5		90.5 / 90.5	101.0 / 101.0	101.0 / 101.0	
			CFM	3,196 / 3,196		3,196 / 3,196	3,567 / 3,567	3,567 / 3,567	
Sound	Sound Pressure ^{*3)}		Cooling / Heating	dB(A)	52 / 54		52 / 54	51 / 53	
External Dimension	Net Weight		kg	88		91	98	101	
	Shipping Weight		kg	98		101	108	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	
	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	
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 a dead room. Thus actual noise level may be different depending on the installation conditions.

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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.

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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.

3-2. 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

✓ Note

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

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

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

☒ 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

12) RC125PHXEA + 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	11.62	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

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

✓ Note

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

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

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

☒ 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

16) RC140PHXEA + 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	13.02	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

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)

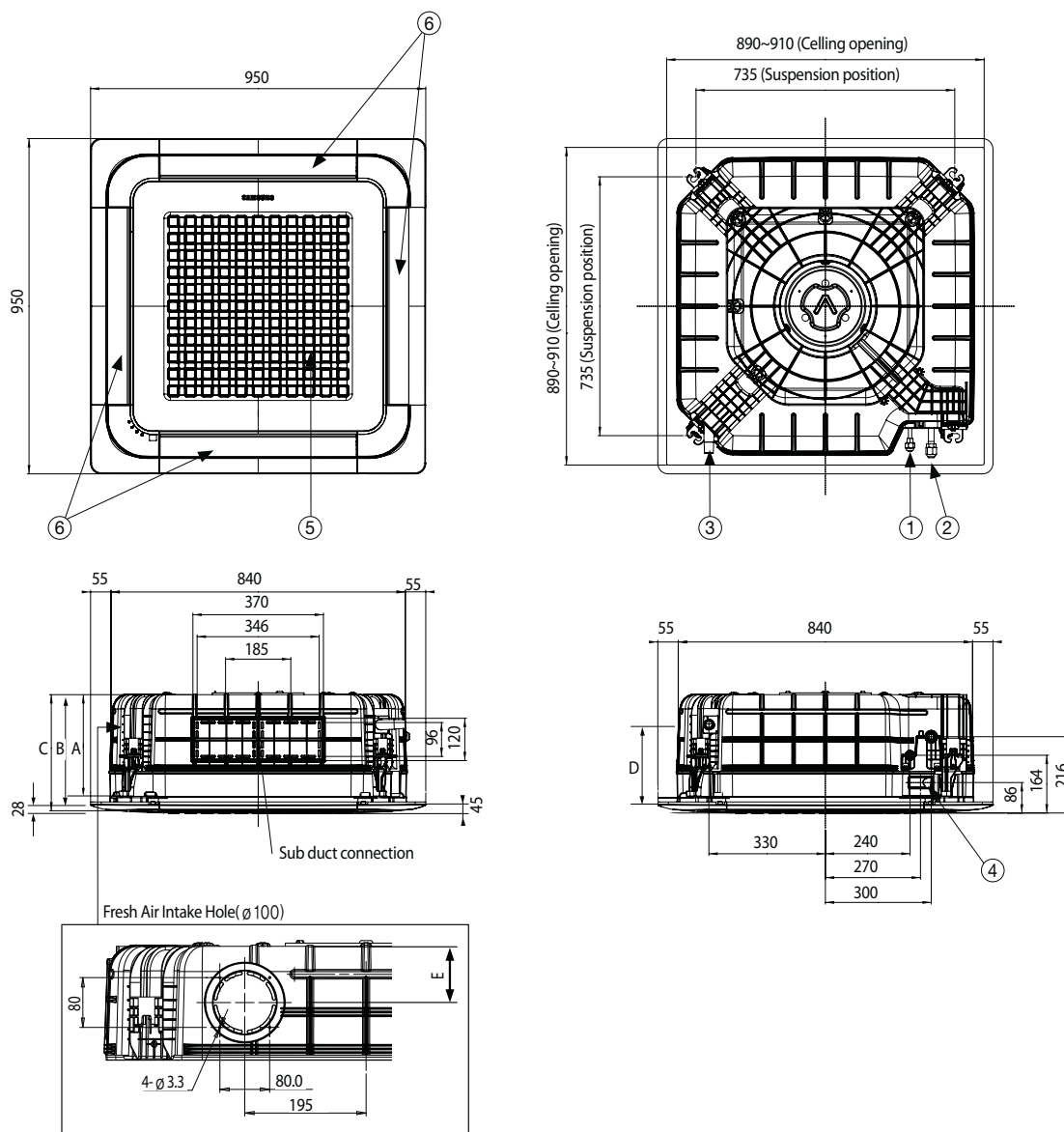
Indoor Temperature(°C)		Outdoor Temperature (°C, DB)							
		-20		-10		7		24	
DB		TC	PI	TC	PI	TC	PI	TC	PI
16		12.80	6.30	16.32	7.09	16.32	4.18	19.67	4.39
18		12.68	6.23	16.16	7.02	16.16	4.14	19.47	4.34
20		12.55	6.17	16.00	6.95	16.00	4.10	19.28	4.30
21		12.42	6.11	15.84	6.88	15.84	4.06	19.09	4.26
22		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

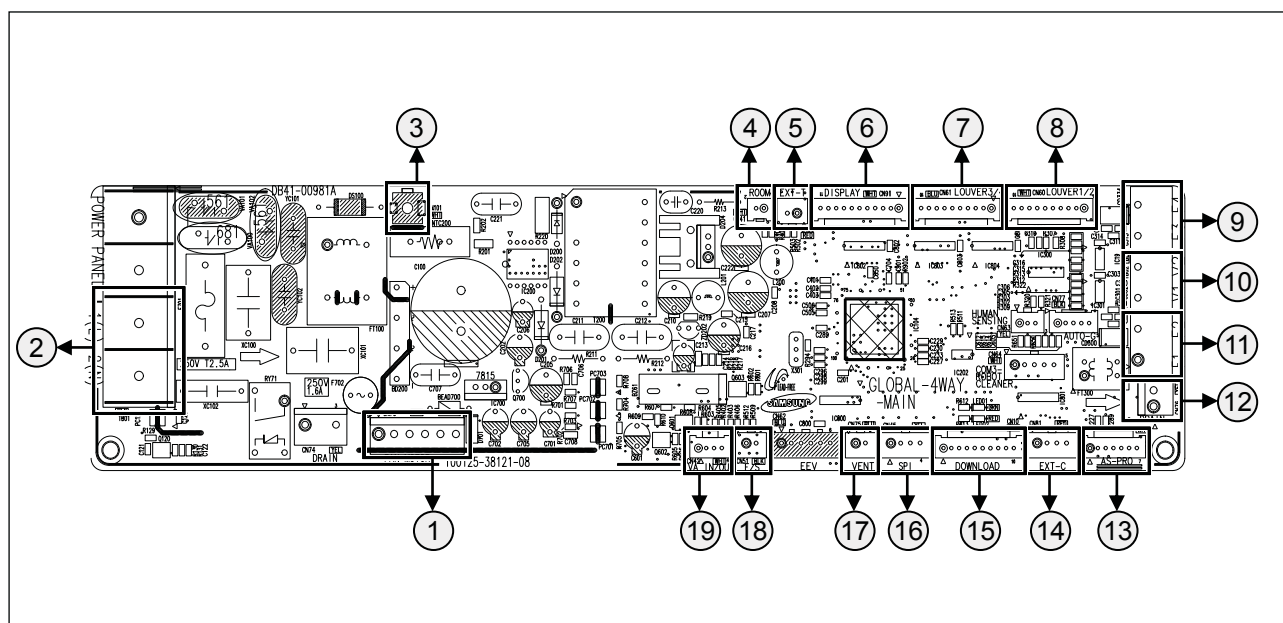


No.	Name	Description	
		7.1kW	9.0/10.0/12.5/14.0kW
①	Liquid pipe connection	Ø6.35mm (1/4") Flare	Ø9.52mm (3/8") Flare
②	Gas pipe connection	Ø15.88mm (5/8") Flare	
③	Drain pipe connection	VP25 (OD32, ID25)	
④	Conduit for power supply & communication wiring	-	
⑤	Air inlet grille	-	
⑥	Air outlet louver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

		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



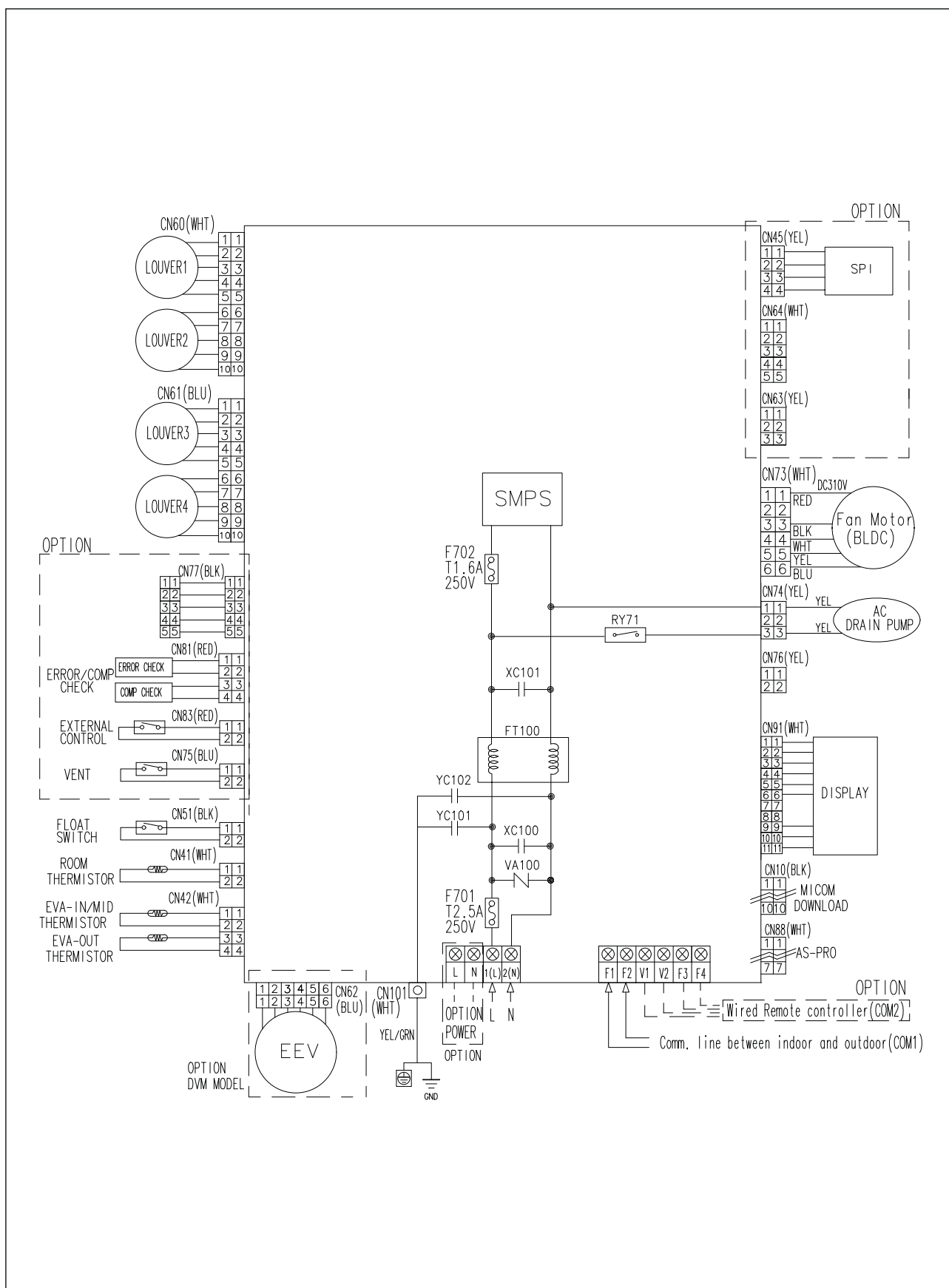
AC

No.	CN #	Color	Function
①	CN37	White	BLDC Fan Motor
②	TB01	Black	Input Power(L,N)
③	CN101	White	Earth Wire

DC

No.	CN #	Color	Function
④	CN41	White	Indoor Room Sensor
⑤	CN83	Red	External Contact Signal (On/Off)
⑥	CN91	White	Panel Display
⑦	CN61	Blue	Louver 3/4
⑧	CN60	White	Louver 1/2
⑨	TB02	Black	COM2 Communication – F3, F4 (for Wired Remote Controller)
⑩	TB02	Black	DC 12V – V1, V2 (for Wired Remote Controller)
⑪	TB02	Black	COM1 Communication – F1, F2
⑫	CN76	Yellow	Drain Pump (DC 12V)
⑬	CN88	White	Download (AS-Pro)
⑭	CN81	Red	External Contact Control Check (Error, Operating)
⑮	CN10	Black	Download
⑯	CN45	Yellow	SPi (S-Plasma ion)
⑰	CN75	Blue	Ventilator
⑱	CN51	Black	Float Sensor
⑲	CN42	White	Eva In/Out Temperature Sensor

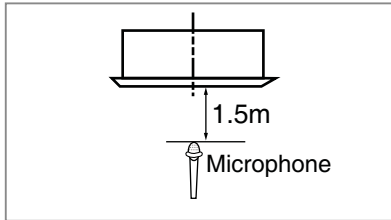
3-5. Electrical wiring diagram



3 4 way cassette S

3-6. Sound pressure level

1) Operation sound level



Unit : dB(A)

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

Unit : dB(A)

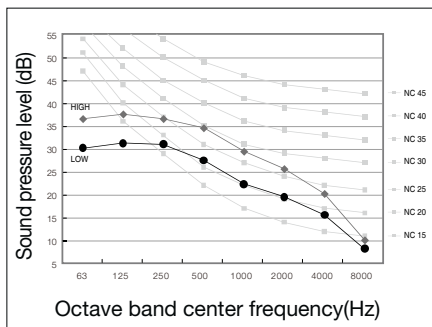
Model	High	Low
NS1254DXEA	44	36
NS1254PXE A	44	36
NS1404DXEA	45	38
NS1404PXE A	45	38

Note

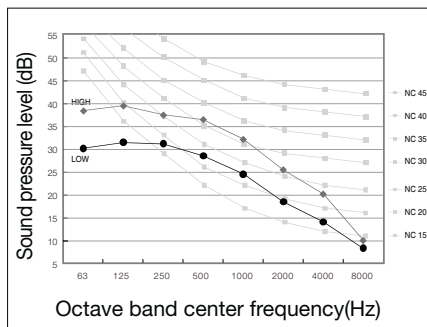
- ◆ These operation values were obtained in a dead room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- ◆ Operation sound level may differ depending on operation and ambient conditions.

2) NC curves

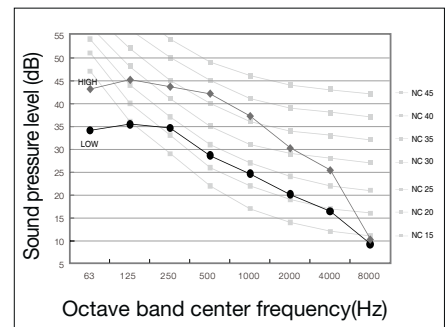
(1) NS0714DXEA



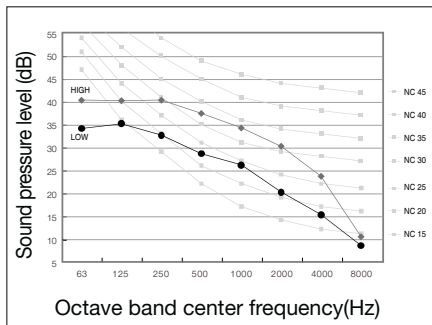
(2) NS0714PXE A



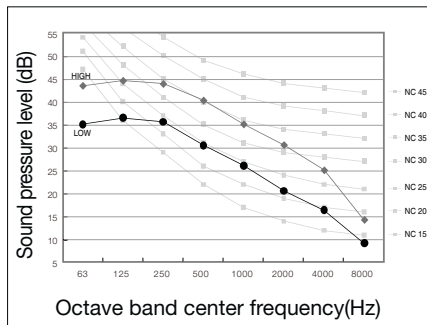
(3) NS0904DXEA



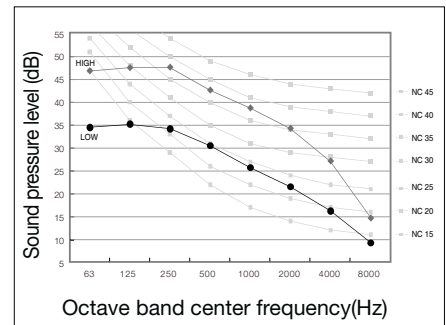
(4) NS0904PXE A



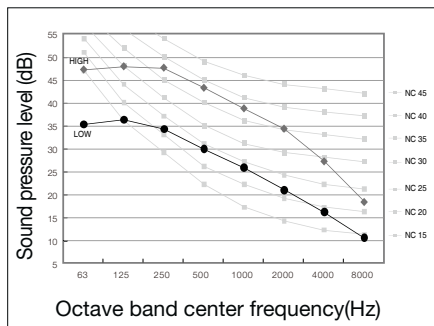
(5) NS1004DXEA



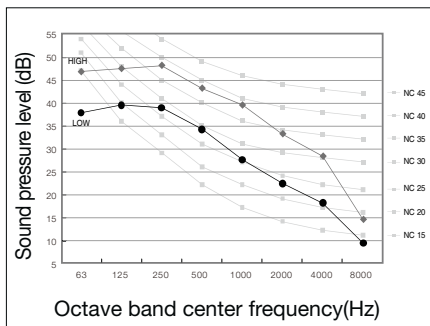
(6) NS1004PXE A



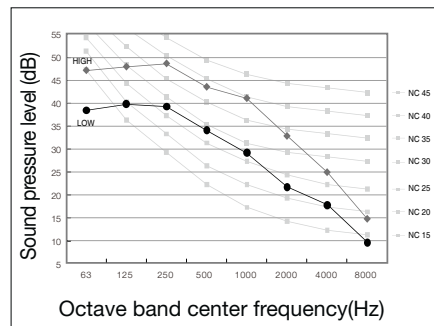
(7) NS1004ZXEA



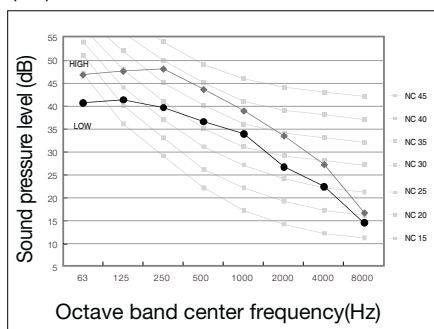
(8) NS1254DXEA



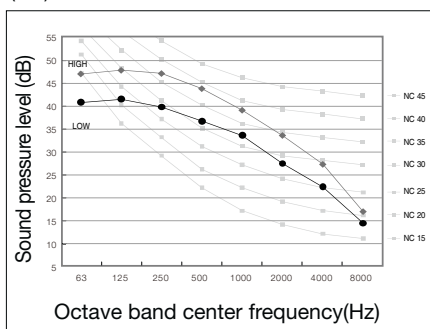
(9) NS1254PXEA



(10) NS1404DXEA



(11) NS1404PXEA

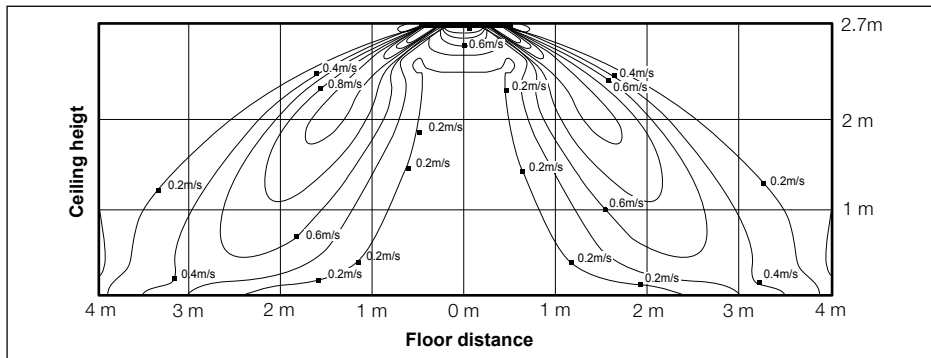


3-7. Temperature and air flow distribution

1) NS0714D*

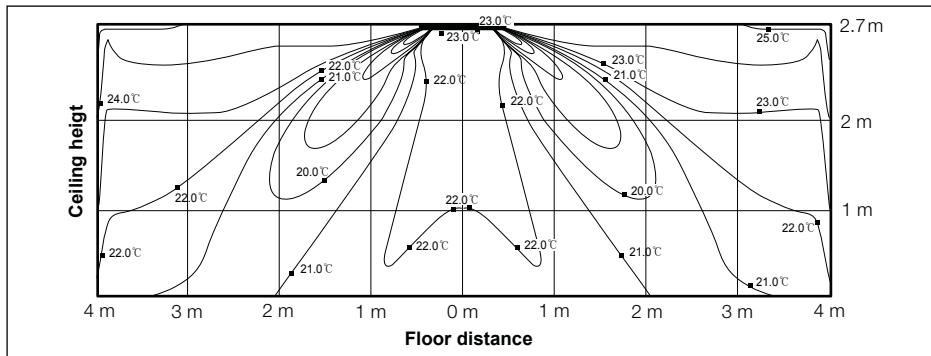
(1) Cooling air velocity distribution

◆ Discharge angle : 45°



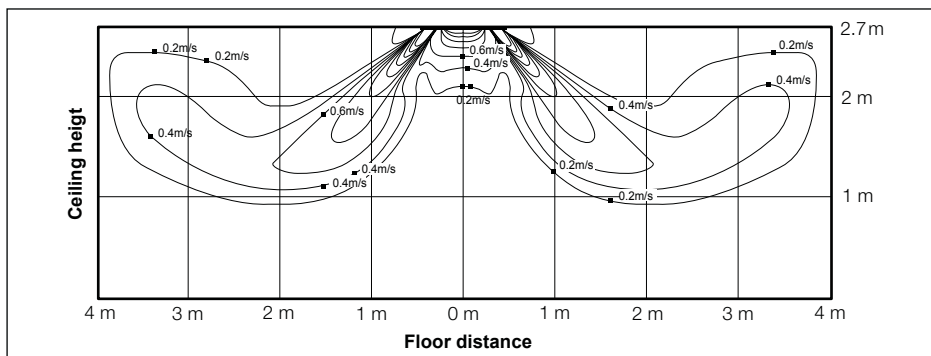
(2) Cooling temperature distribution

◆ Discharge angle : 45°



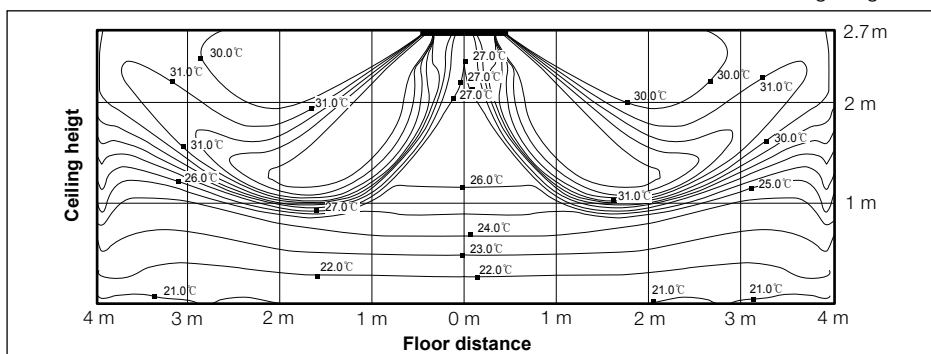
(3) Heating air velocity distribution

◆ Discharge angle : 52°



(4) Heating temperature distribution

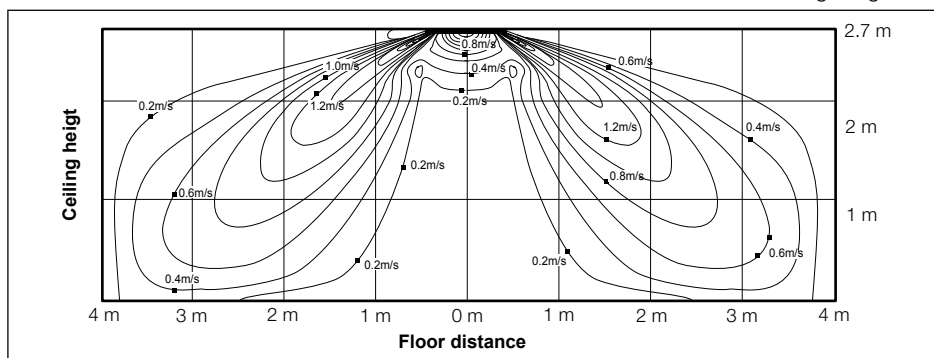
◆ Discharge angle : 52°



2) NS0714P*

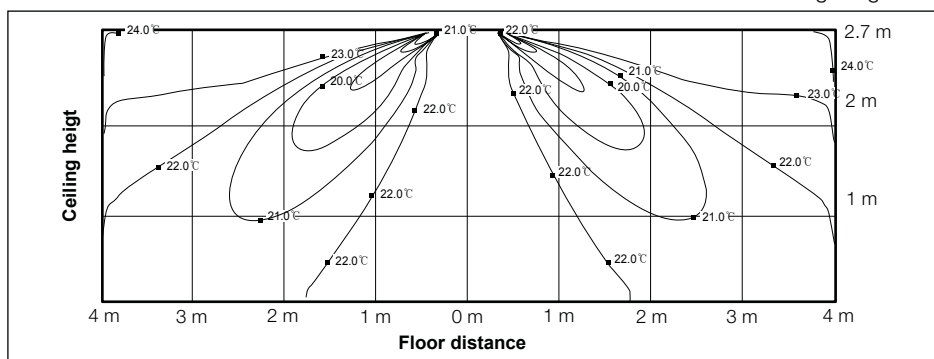
(1) Cooling air velocity distribution

◆ Discharge angle : 45°



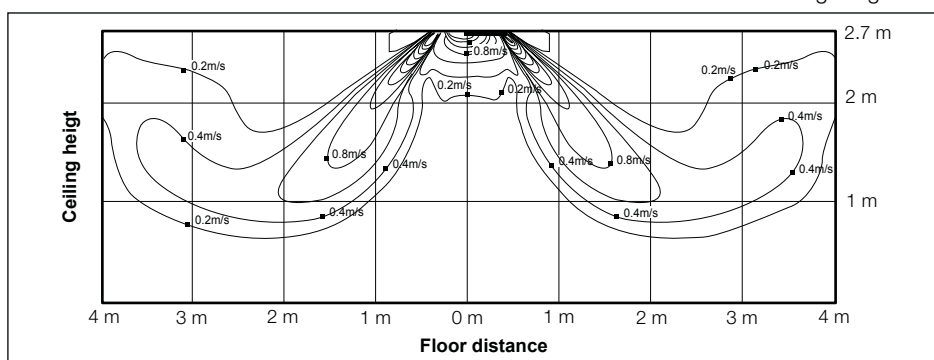
(2) Cooling temperature distribution

◆ Discharge angle : 45°



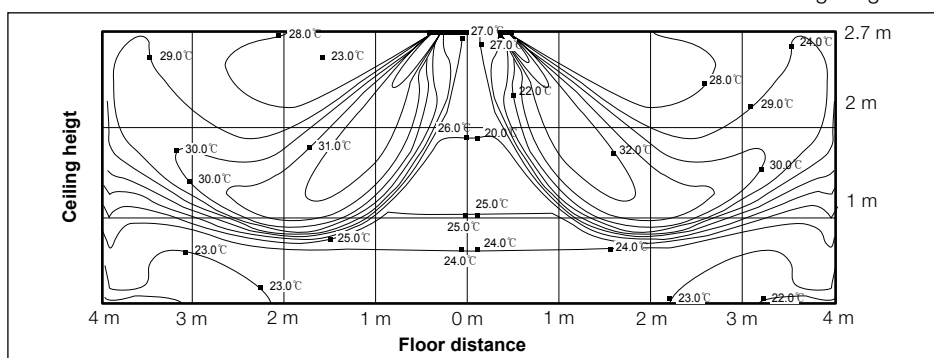
(3) Heating air velocity distribution

◆ Discharge angle : 52°



(4) Heating temperature distribution

◆ Discharge angle : 52°

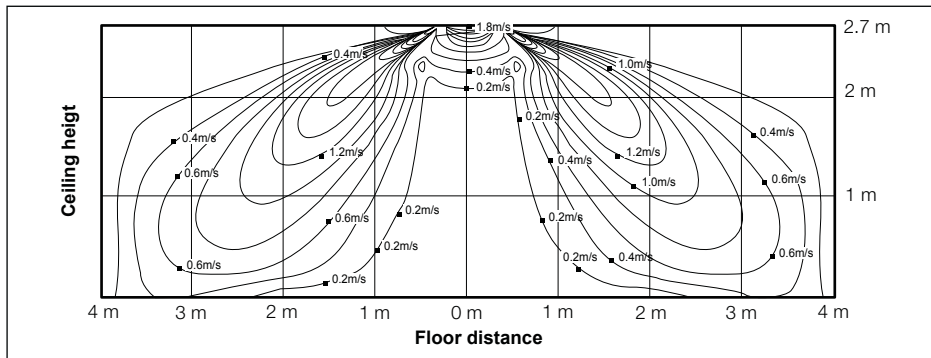


3-7. Temperature and air flow distribution

3) NS0904D*

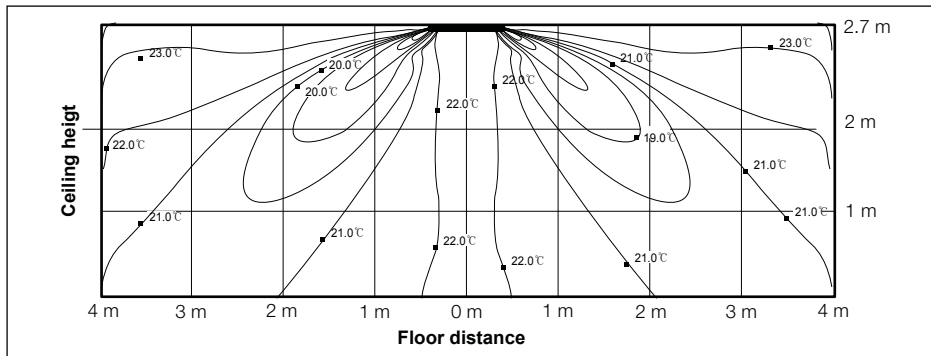
(1) Cooling air velocity distribution

◆ Discharge angle : 45°



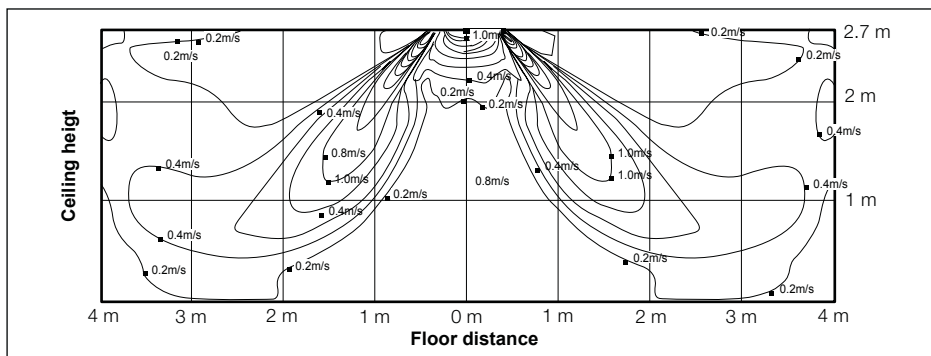
(2) Cooling temperature distribution

◆ Discharge angle : 45°



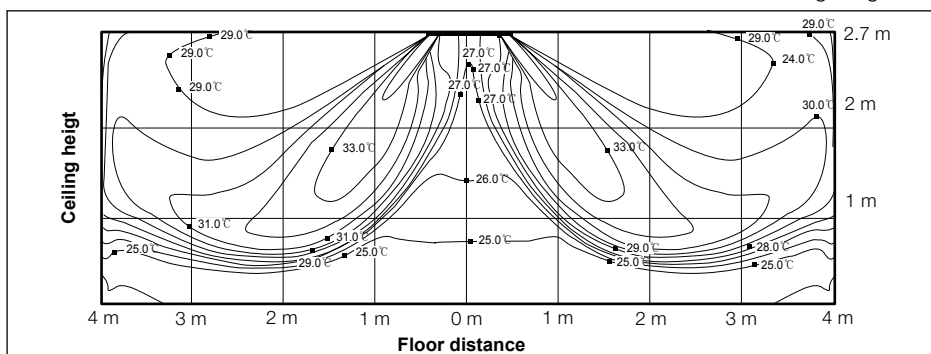
(3) Heating air velocity distribution

◆ Discharge angle : 52°



(4) Heating temperature distribution

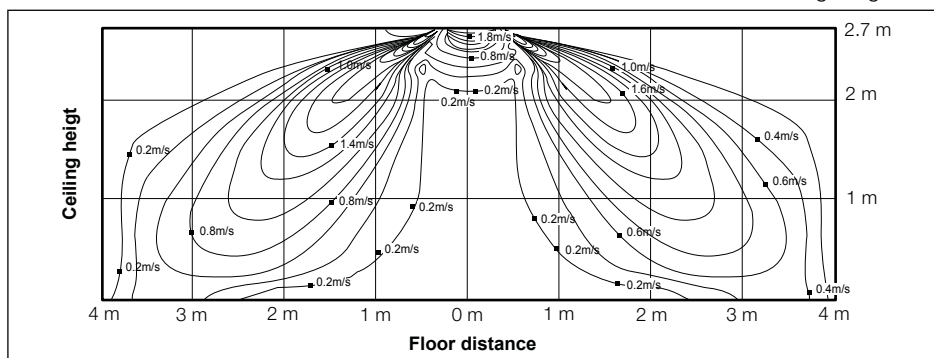
◆ Discharge angle : 52°



4) NS0904P*

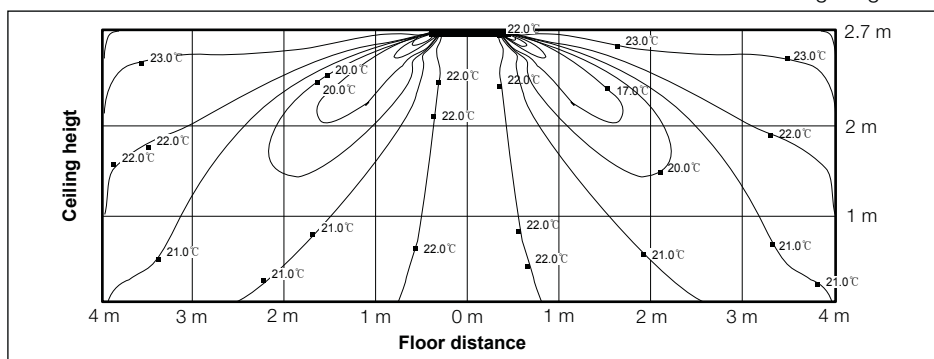
(1) Cooling air velocity distribution

◆ Discharge angle : 45°



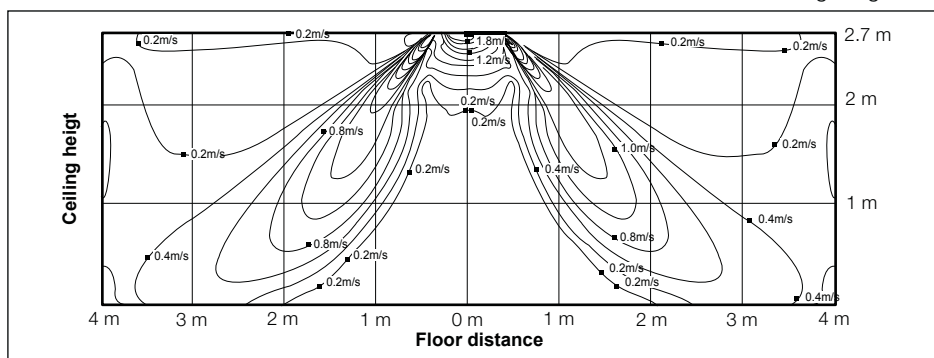
(2) Cooling temperature distribution

◆ Discharge angle : 45°



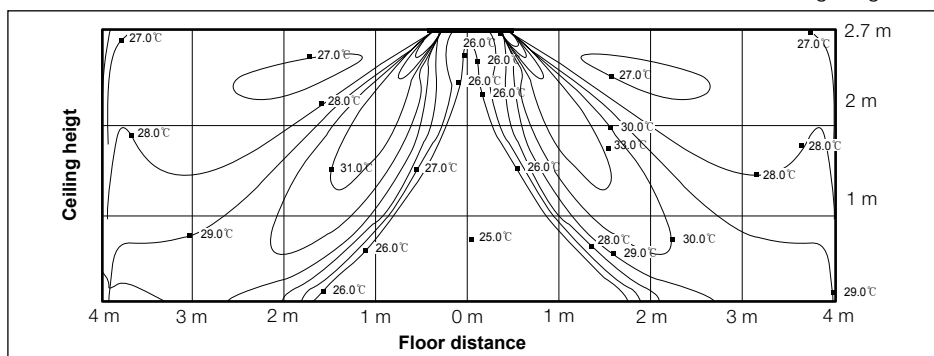
(3) Heating air velocity distribution

◆ Discharge angle : 52°



(4) Heating temperature distribution

◆ Discharge angle : 52°



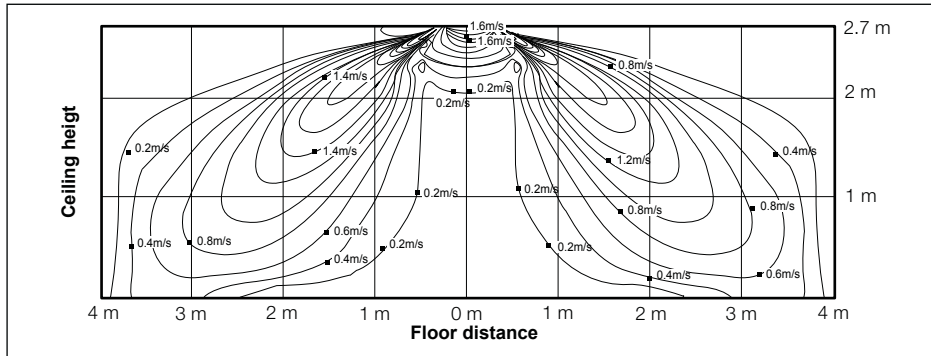
3 4 way cassette S

3-7. Temperature and air flow distribution

5) NS1004D*

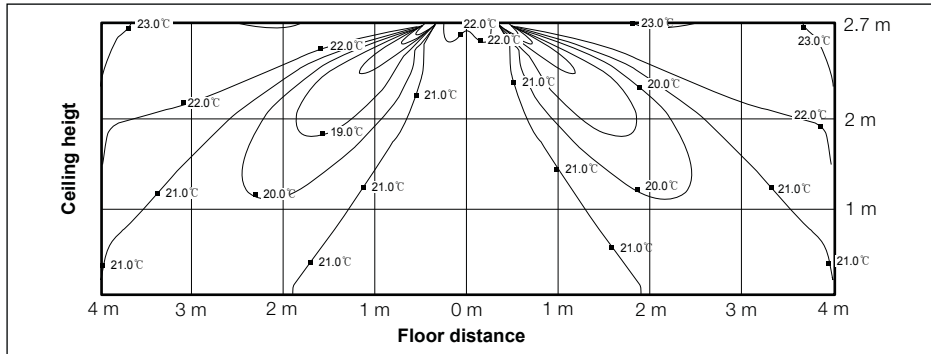
(1) Cooling air velocity distribution

◆ Discharge angle : 45°



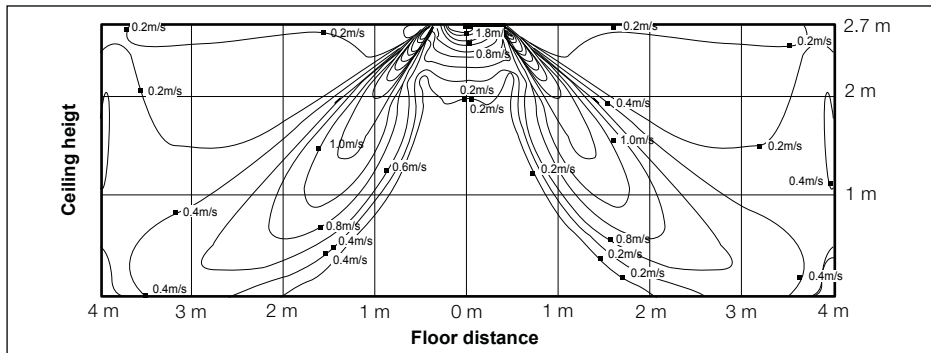
(2) Cooling temperature distribution

◆ Discharge angle : 45°



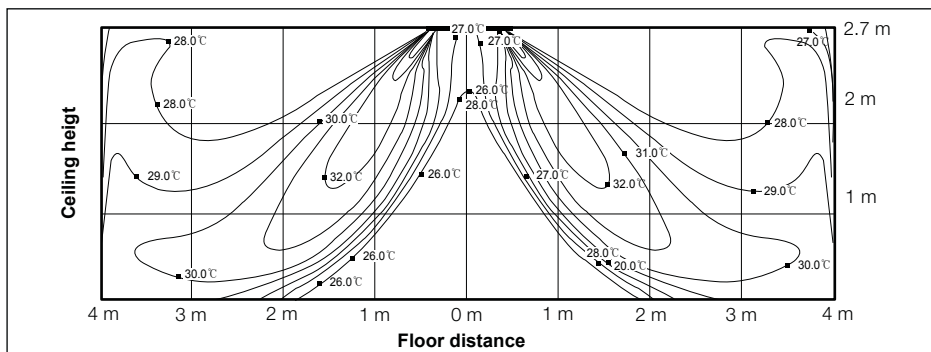
(3) Heating air velocity distribution

◆ Discharge angle : 52°



(4) Heating temperature distribution

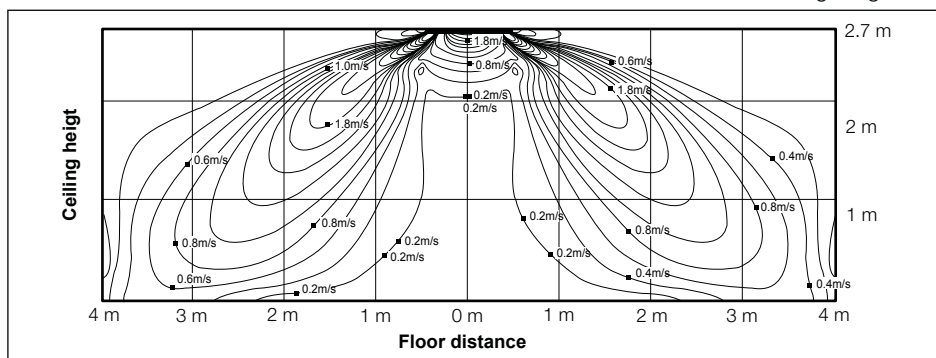
◆ Discharge angle : 52°



6) NS1004P*

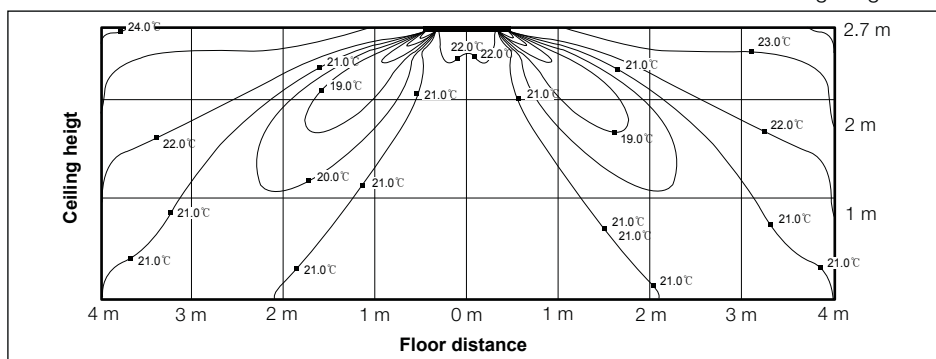
(1) Cooling air velocity distribution

◆ Discharge angle : 45°



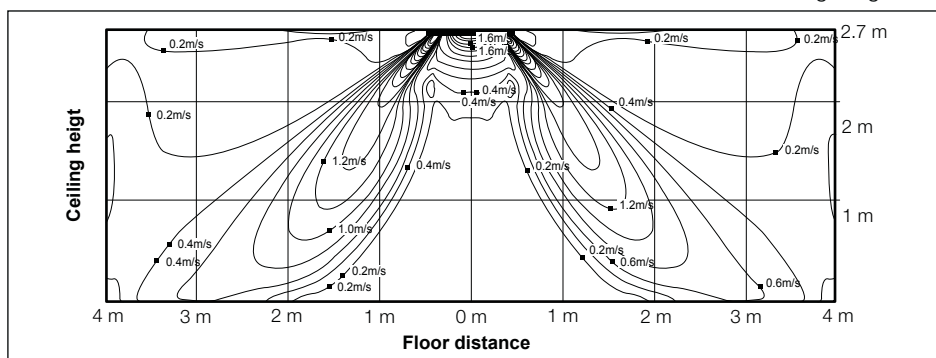
(2) Cooling temperature distribution

◆ Discharge angle : 45°



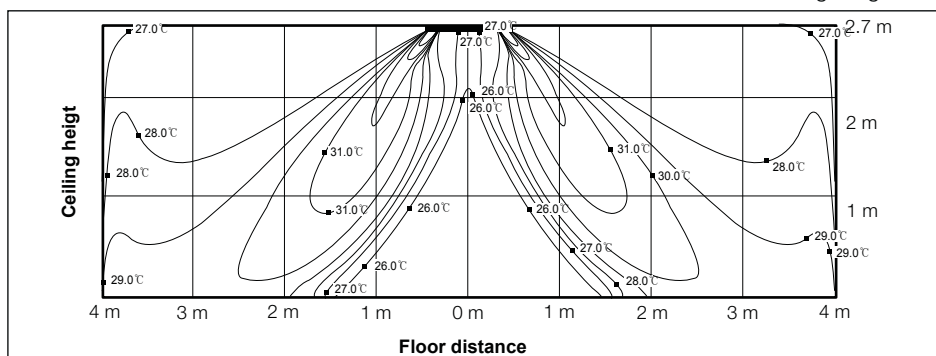
(3) Heating air velocity distribution

◆ Discharge angle : 52°



(4) Heating temperature distribution

◆ Discharge angle : 52°



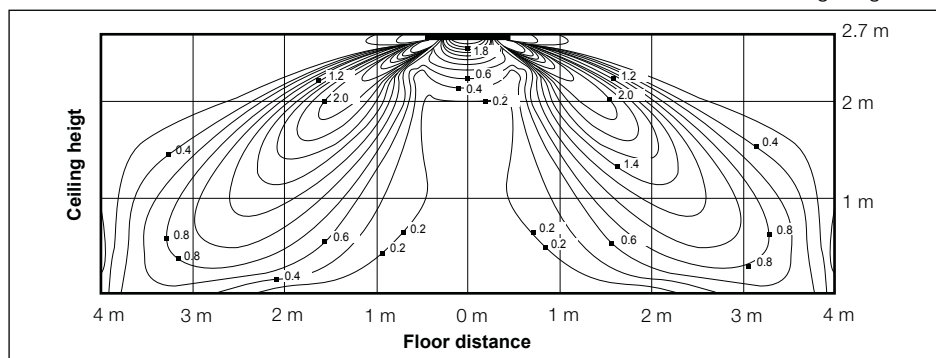
3 4 way cassette S

3-7. Temperature and air flow distribution

7) NS1004Z*

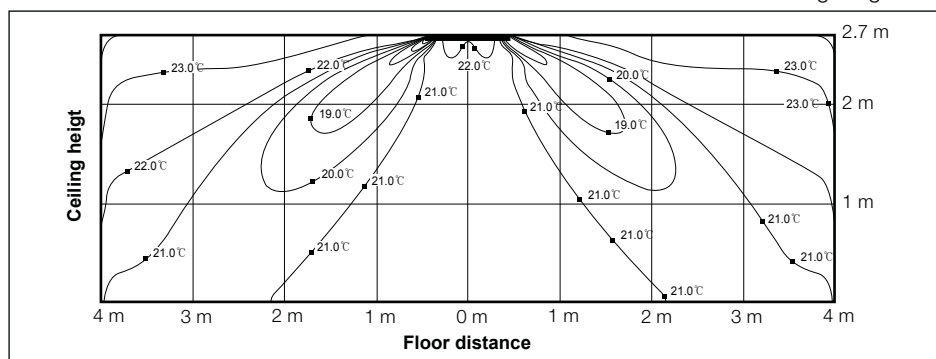
(1) Cooling air velocity distribution

◆ Discharge angle : 45°



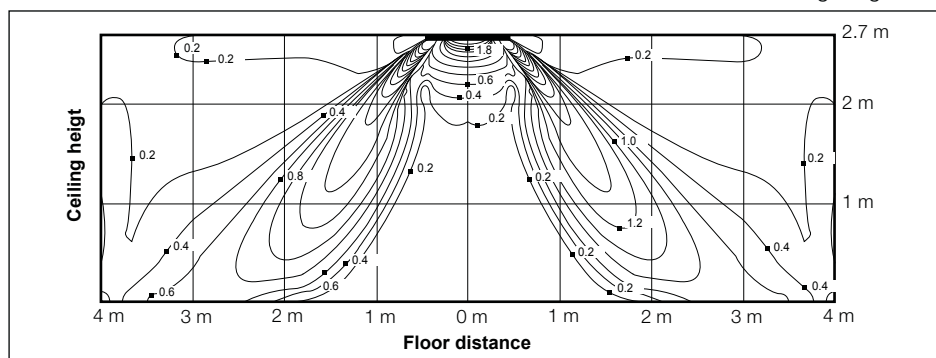
(2) Cooling temperature distribution

◆ Discharge angle : 45°



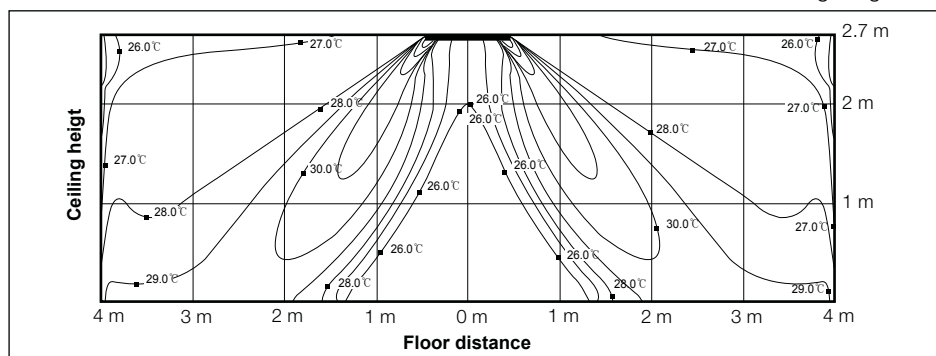
(3) Heating air velocity distribution

◆ Discharge angle : 52°



(4) Heating temperature distribution

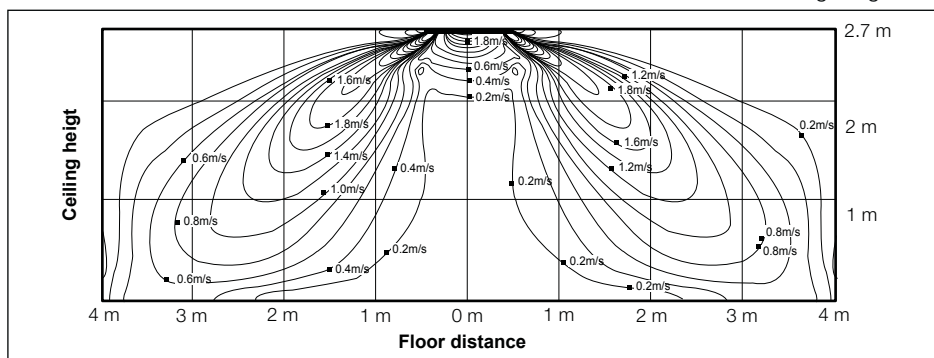
◆ Discharge angle : 52°



8) NS1254D*

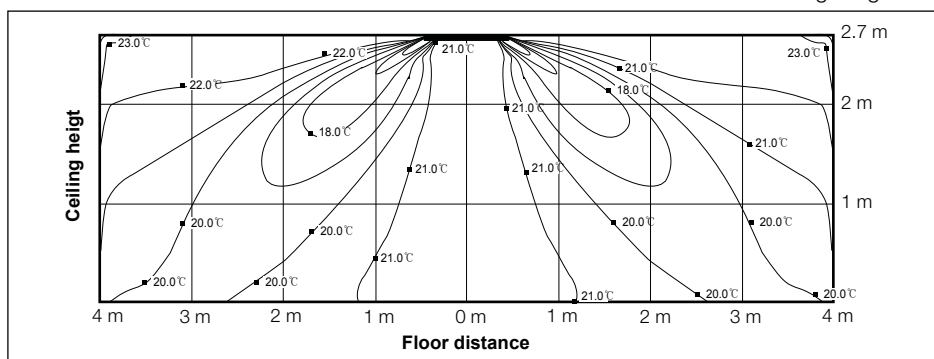
(1) Cooling air velocity distribution

◆ Discharge angle : 45°



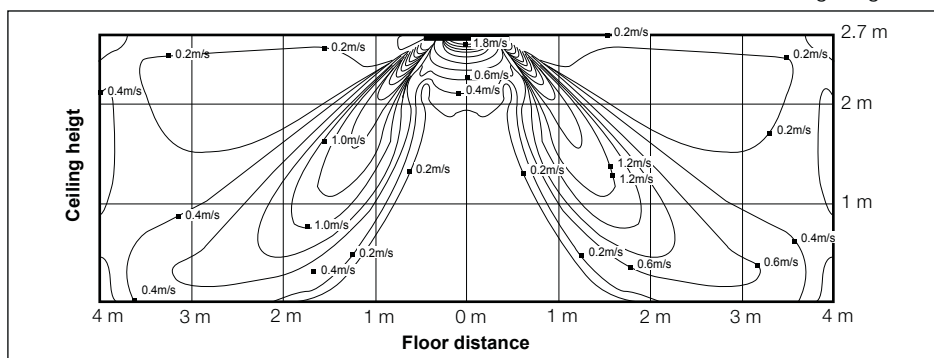
(2) Cooling temperature distribution

◆ Discharge angle : 45°



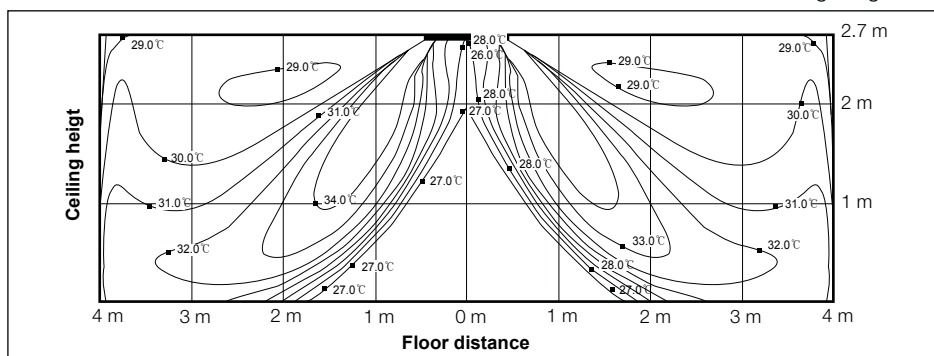
(3) Heating air velocity distribution

◆ Discharge angle : 52°



(4) Heating temperature distribution

◆ Discharge angle : 52°



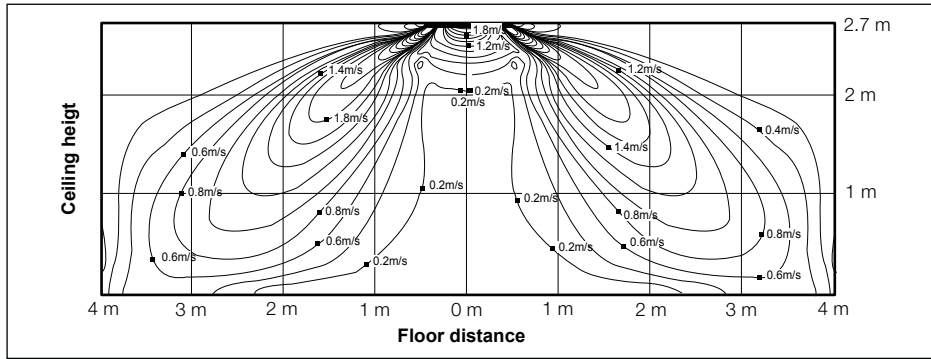
3 4 way cassette S

3-7. Temperature and air flow distribution

9) NS1254P*

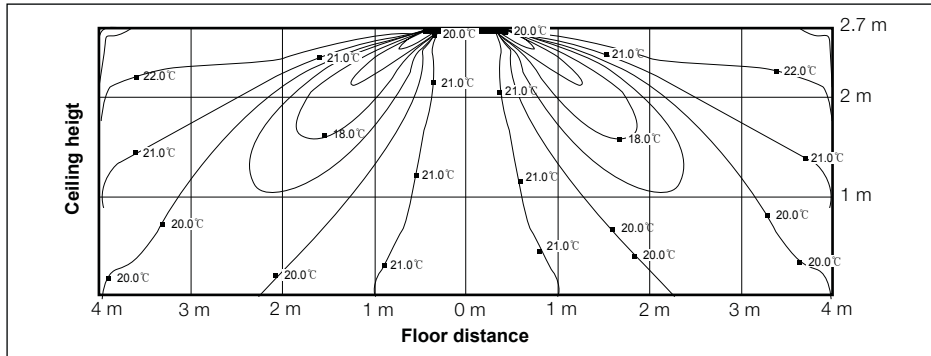
(1) Cooling air velocity distribution

◆ Discharge angle : 45°



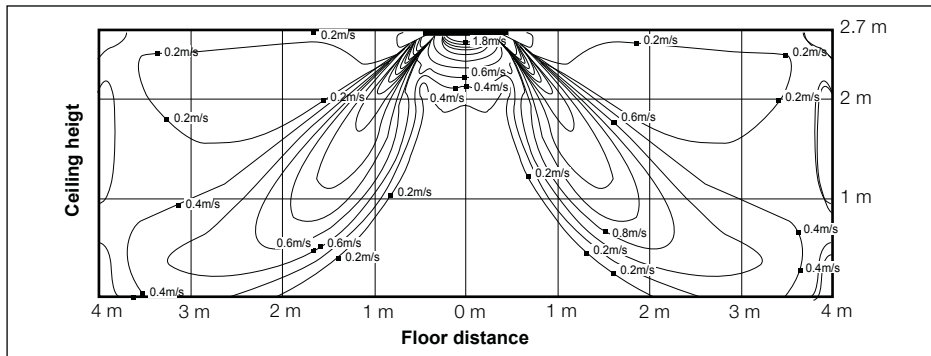
(2) Cooling temperature distribution

◆ Discharge angle : 45°



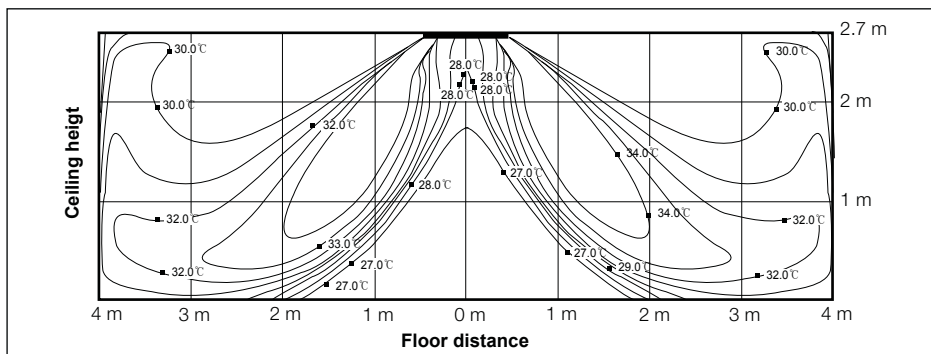
(3) Heating air velocity distribution

◆ Discharge angle : 52°



(4) Heating temperature distribution

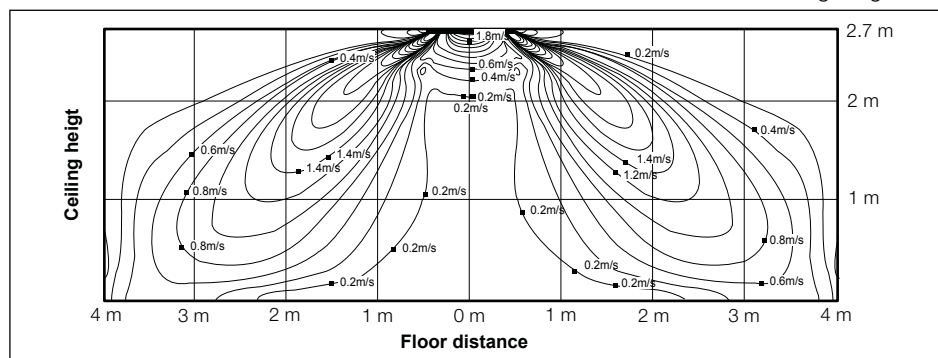
◆ Discharge angle : 52°



10) NS1404D*

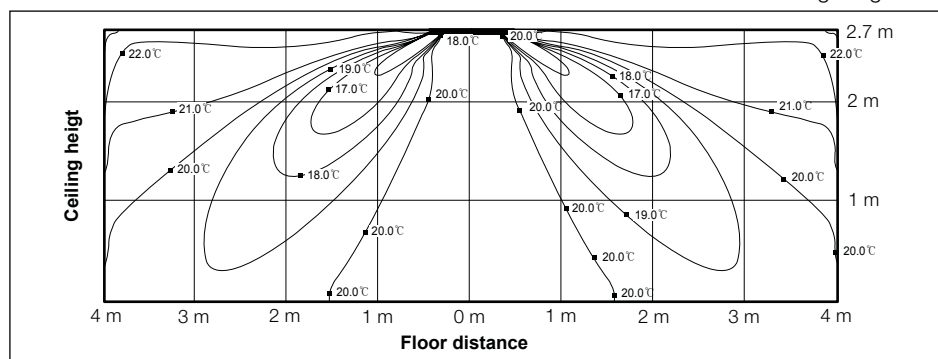
(1) Cooling air velocity distribution

◆ Discharge angle : 45°



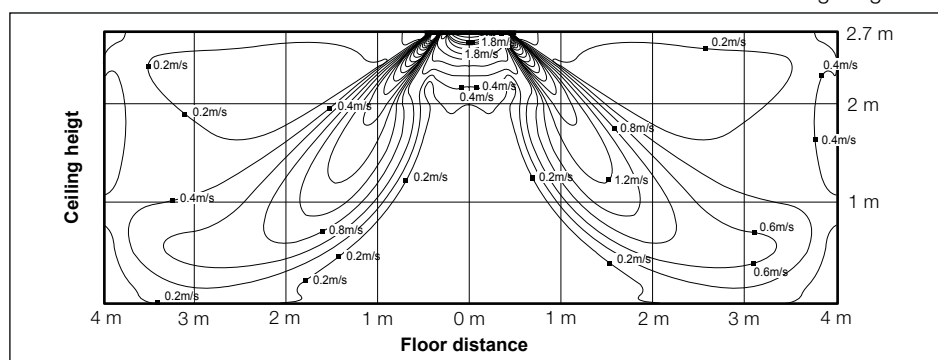
(2) Cooling temperature distribution

◆ Discharge angle : 45°



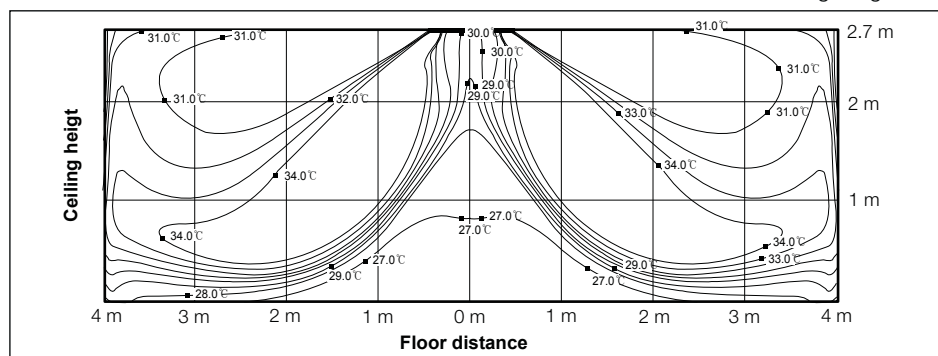
(3) Heating air velocity distribution

◆ Discharge angle : 52°



(4) Heating temperature distribution

◆ Discharge angle : 52°



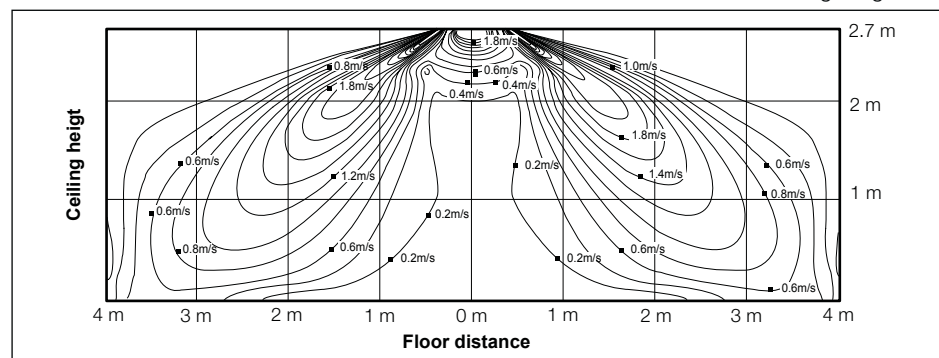
3 4 way cassette S

3-7. Temperature and air flow distribution

11) NS1404P*

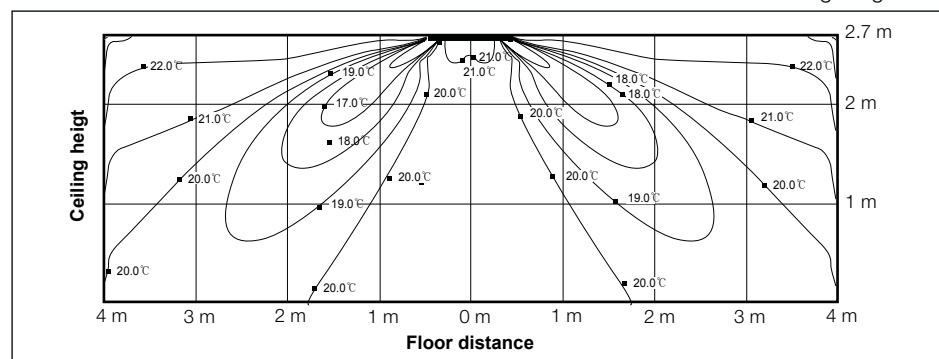
(1) Cooling air velocity distribution

◆ Discharge angle : 45°



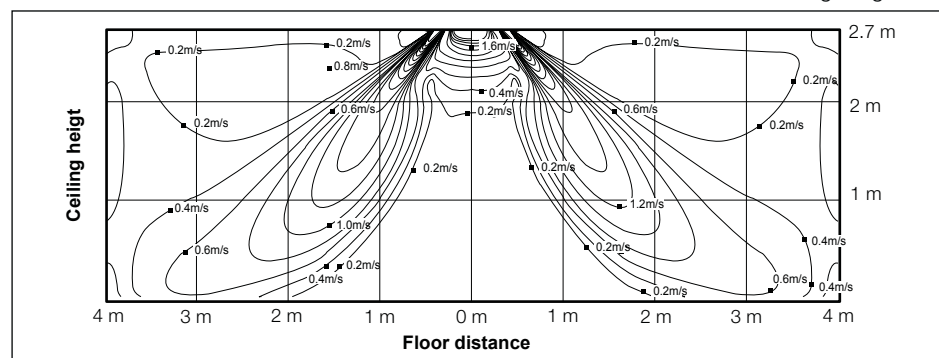
(2) Cooling temperature distribution

◆ Discharge angle : 45°



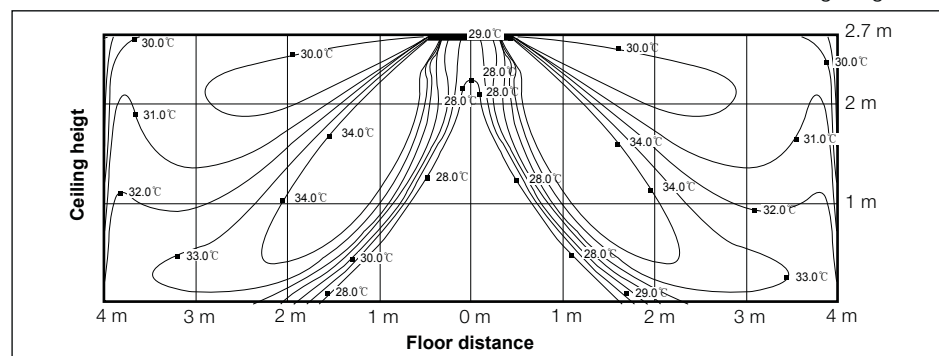
(3) Heating air velocity distribution

◆ Discharge angle : 52°



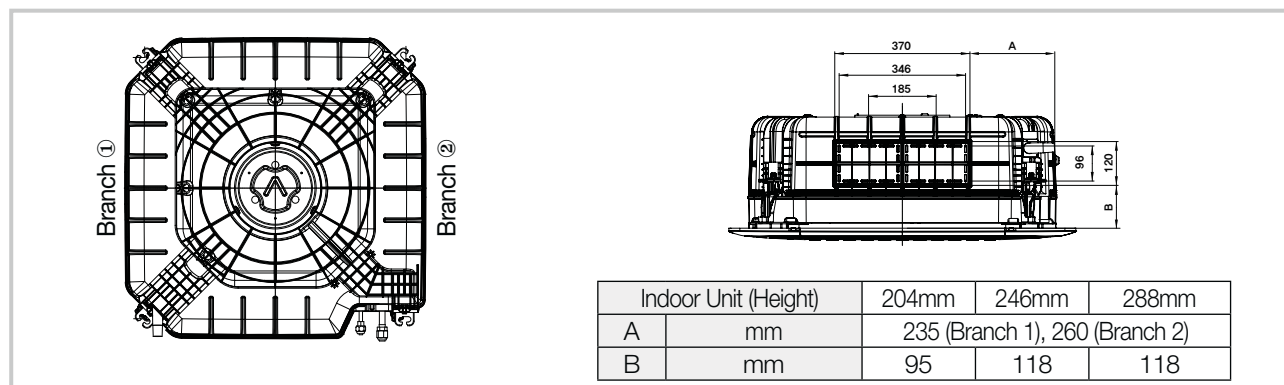
(4) Heating temperature distribution

◆ Discharge angle : 52°



3-8. Sub duct

1) Dimensional drawing



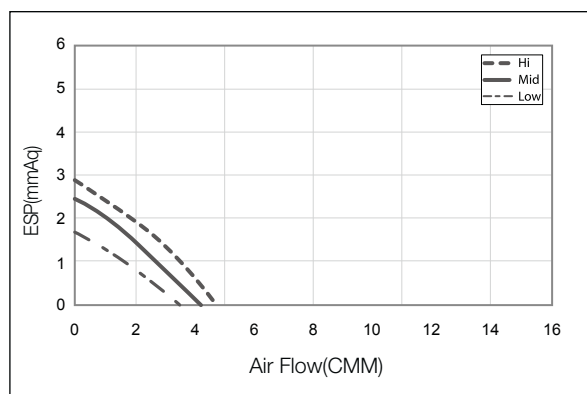
☒ Note

- ◆ Sub duct can be used for 2 directions independently or at once.
- ◆ 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.

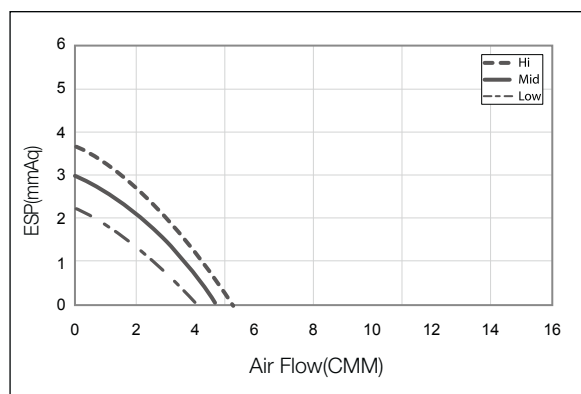
2) P-Q Curve

(1) NS0714D*

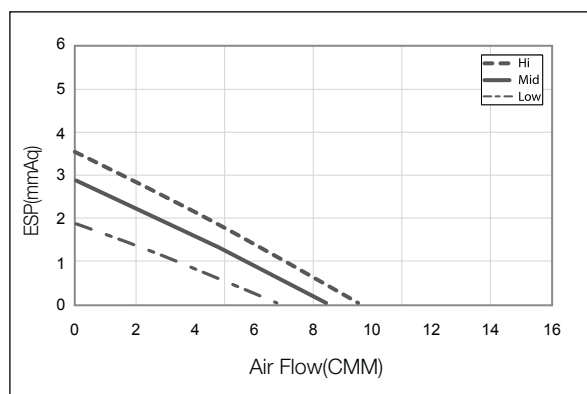
Branch ①



Branch ②



Branch ① + ②



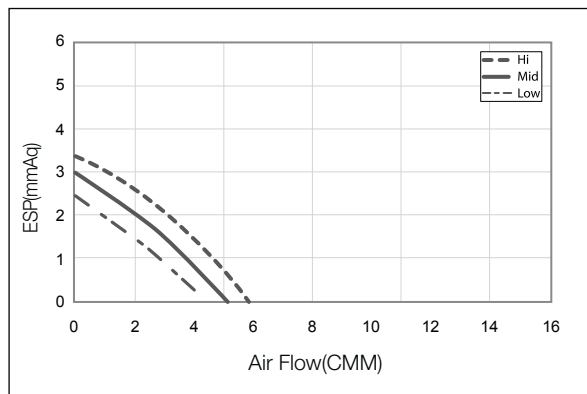
3 4 way cassette S

3-8. Sub duct

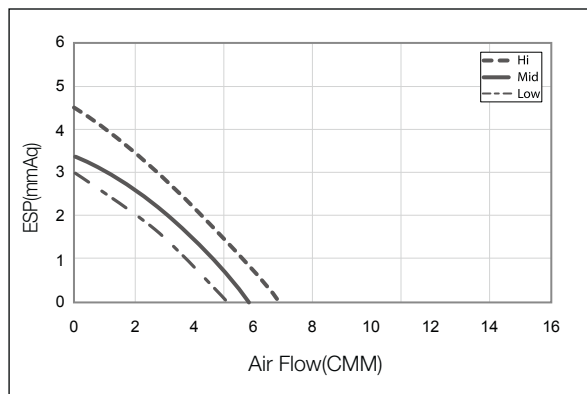
2) P-Q Curve

(2) NS0714P*

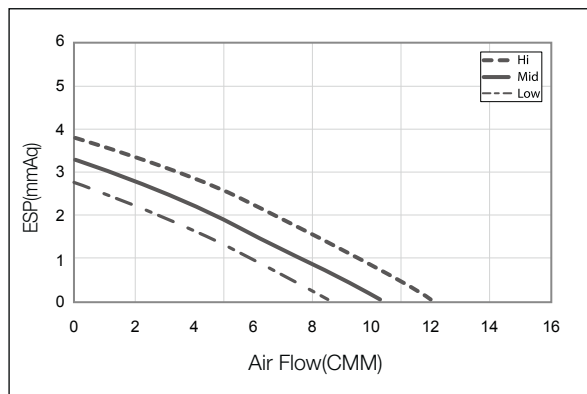
Branch ①



Branch ②

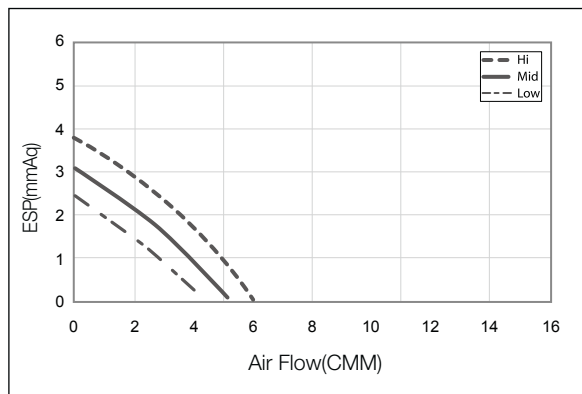


Branch ① + ②

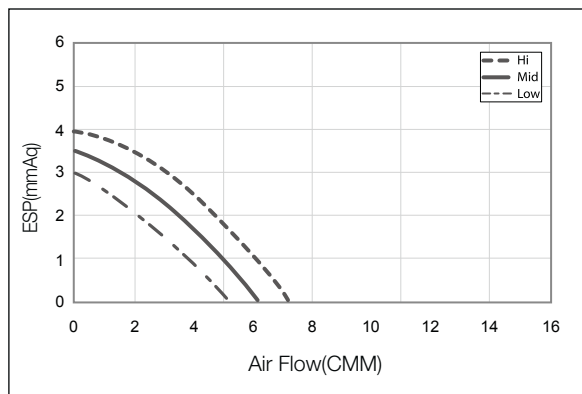


(3) NS0904D*

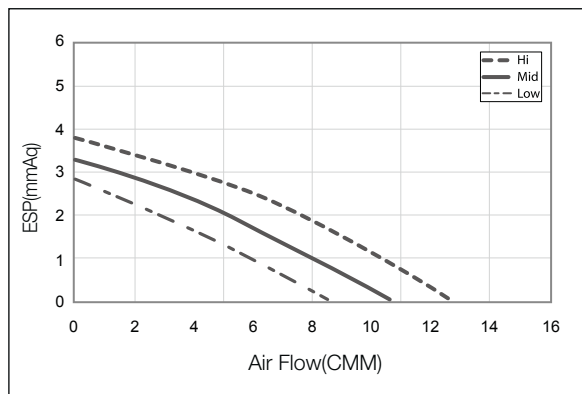
Branch ①



Branch ②

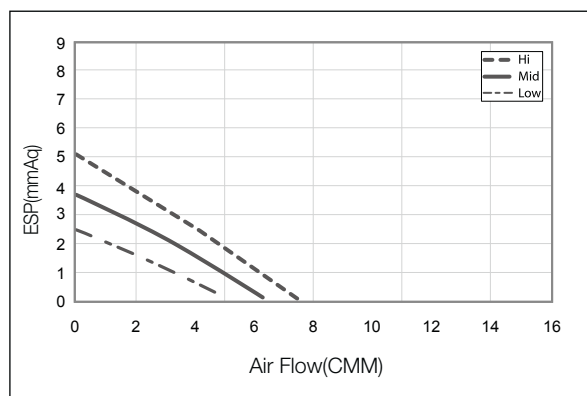


Branch ① + ②

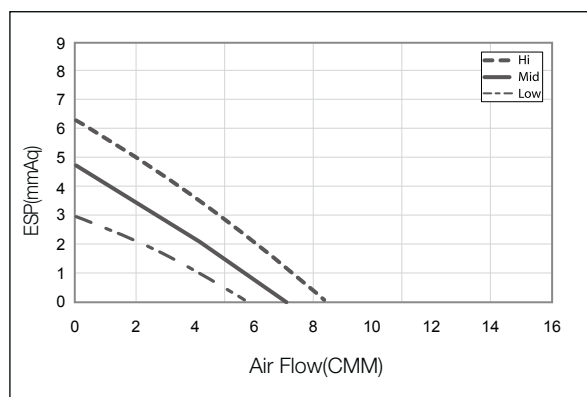


(4) NS0904P*

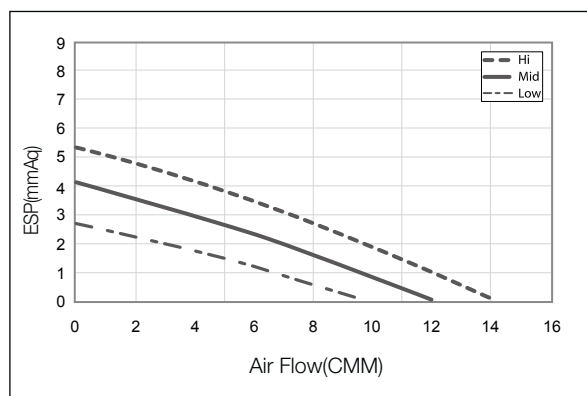
Branch ①



Branch ②

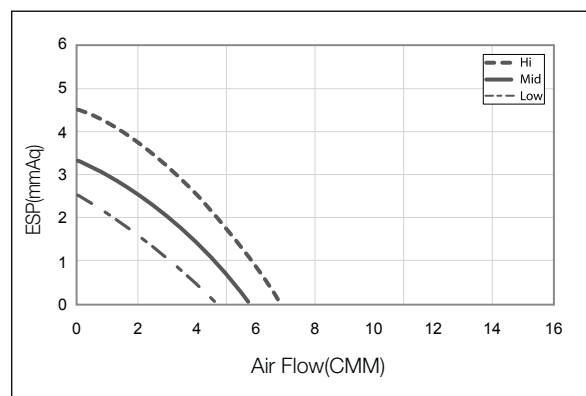


Branch ① + ②

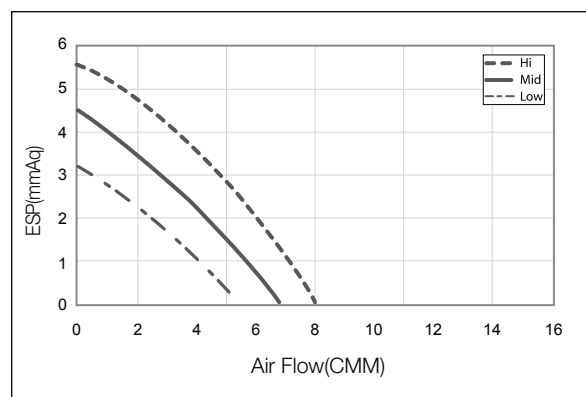


(5) NS1004D*

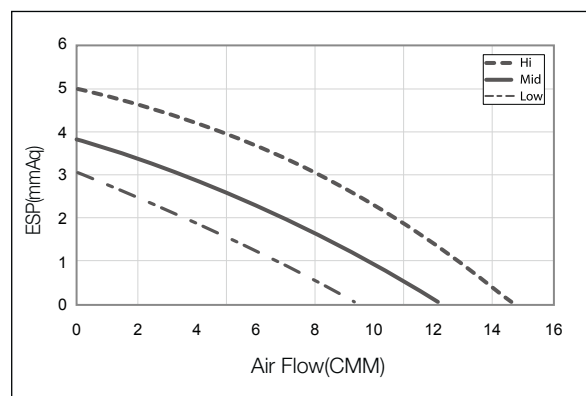
Branch ①



Branch ②



Branch ① + ②



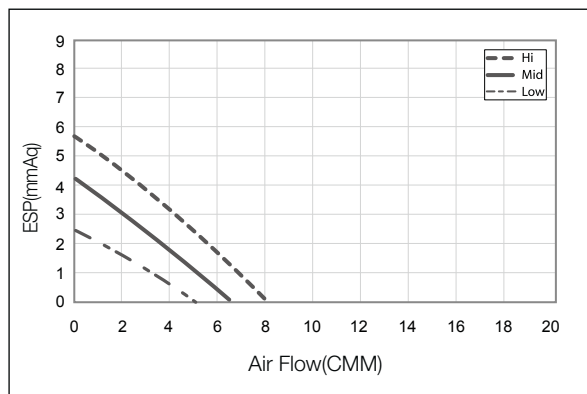
3 4 way cassette S

3-8. Sub duct

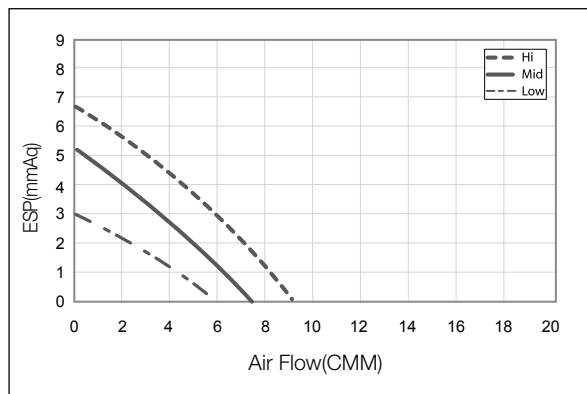
2) P-Q Curve

(6) NS1004P**

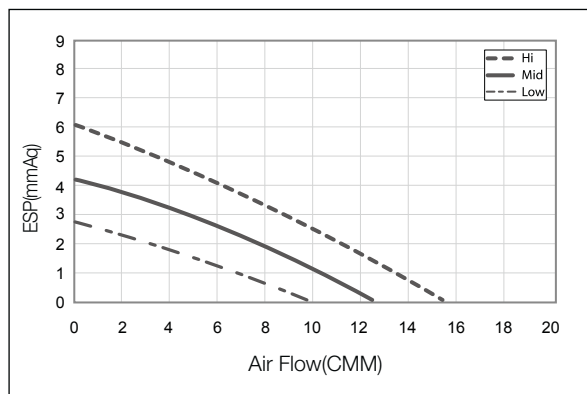
Branch ①



Branch ②

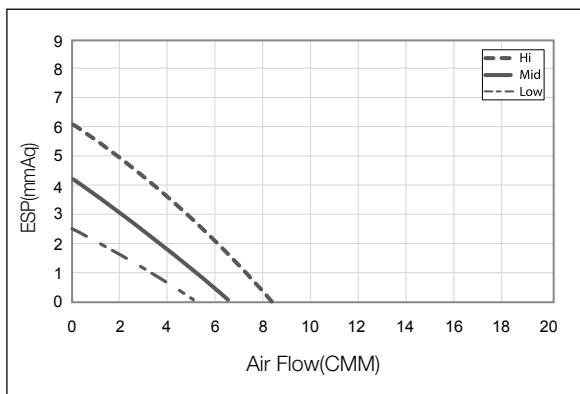


Branch ① + ②

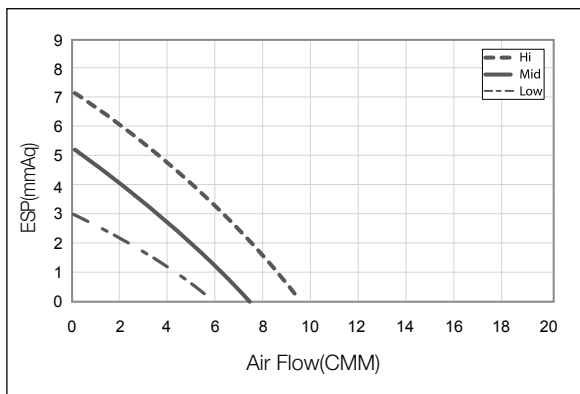


(7) NS1004Z**

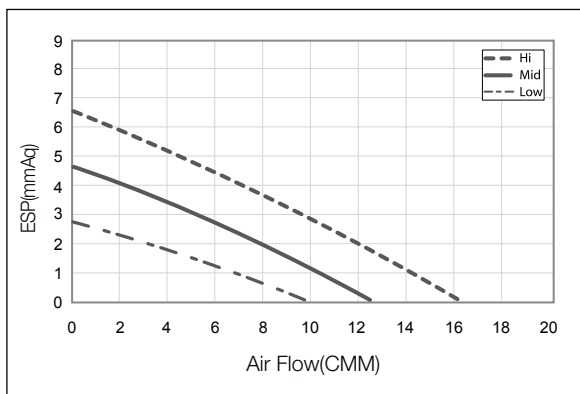
Branch ①



Branch ②



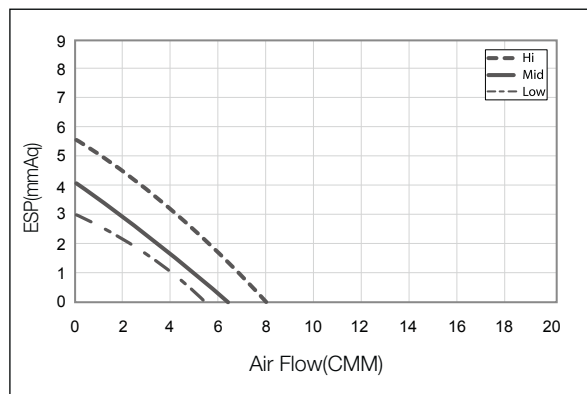
Branch ① + ②



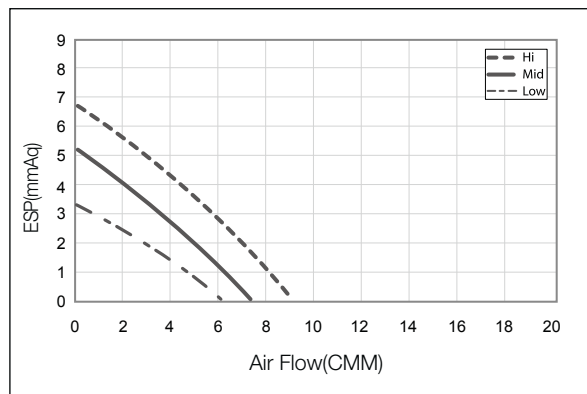
2) P-Q Curve

(8) NS1254D(P)*

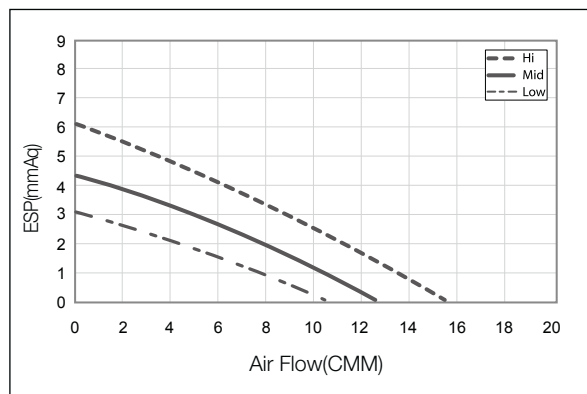
Branch ①



Branch ②

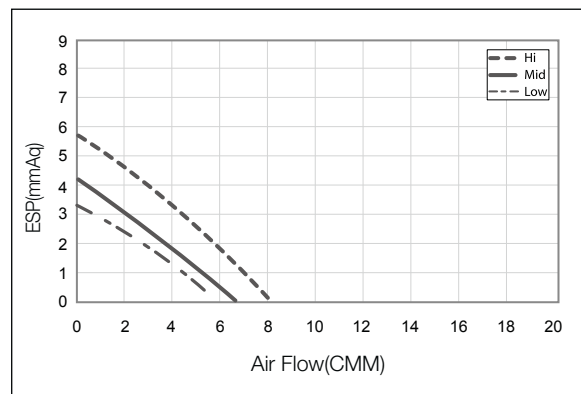


Branch ① + ②

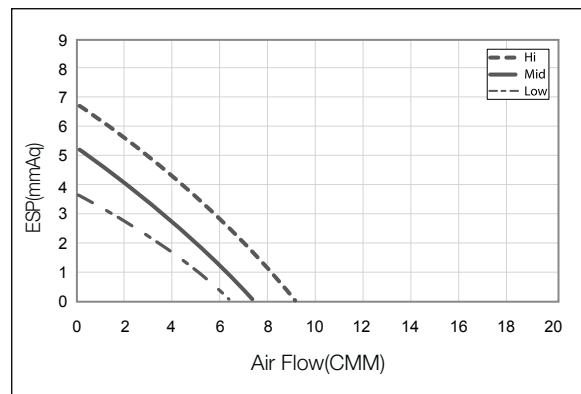


(9) NS1404D*

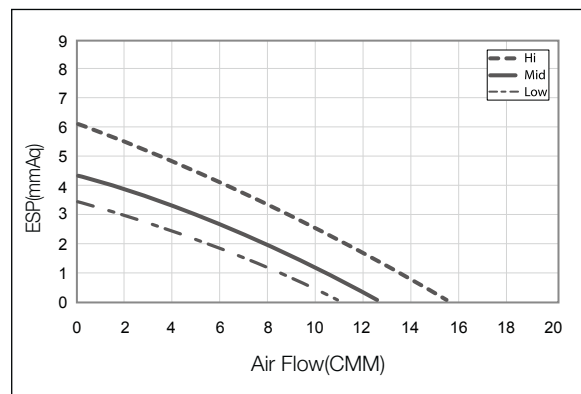
Branch ①



Branch ②



Branch ① + ②



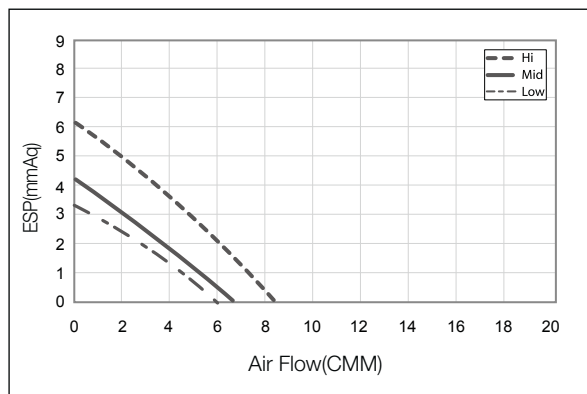
3 4 way cassette S

3-8. Sub duct

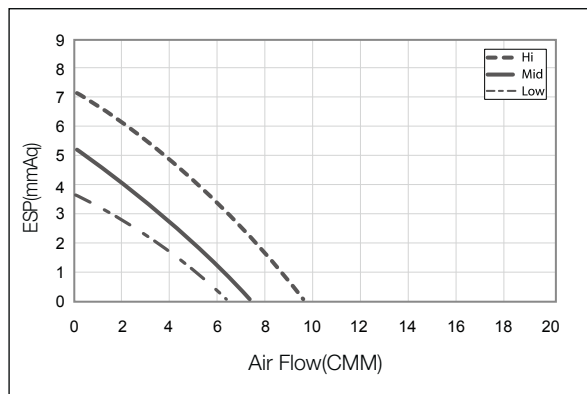
2) P-Q Curve

(10) NS1404P*

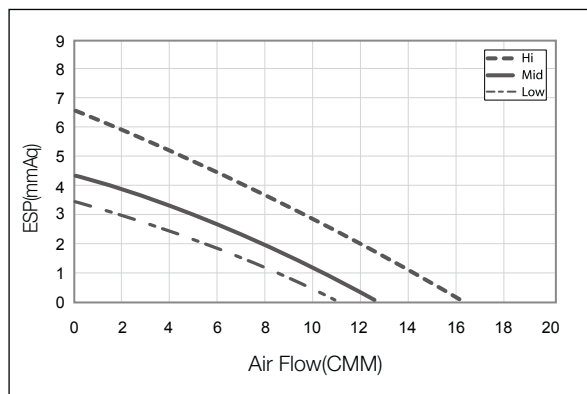
Branch ①

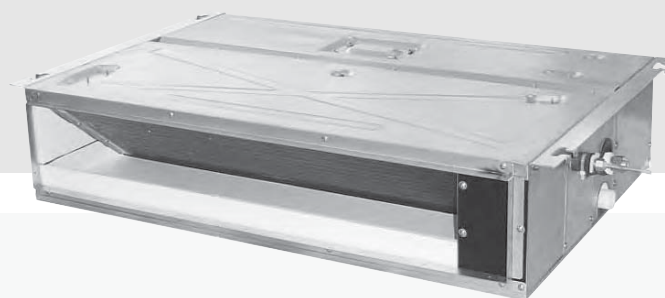


Branch ②



Branch ① + ②





4 Slim duct

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4-1. Specifications

1) Technical specifications

Model Name		Indoor Unit		Outdoor Unit		NS035LHXEA	NS052LHXEA	NS071LDXEA
System	Mode				-	UH035EAV1	UH052EAV1	RC071DHXEA
						Heat Pump	Heat Pump	Heat Pump
	Capacity	Capacity (Nominal)	Cooling ^{*1)}	kW	0.98 / 3.50 / 4.20	1.70 / 5.00 / 6.00	2.20 / 7.10 / 8.00	
			(Min / Std / Max)	Btu/h	3,300 / 11,900 / 14,300	5,800 / 17,100 / 20,500	7,500 / 24,200 / 27,300	
			Heating ^{*2)}	kW	0.98 / 4.00 / 5.20	1.50 / 6.00 / 8.00	1.90 / 8.00 / 9.00	
			(Min / Std / Max)	Btu/h	3,300 / 13,600 / 17,700	5,100 / 20,500 / 27,300	6,500 / 27,300 / 30,700	
	Power	Power Input (Nominal)	Cooling ^{*1)}	kW	0.26 / 1.15 / 1.4	0.42 / 1.55 / 1.95	0.35 / 2.21 / 4.0	
			(Min / Std / Max)		0.21 / 1.11 / 1.7	0.36 / 1.65 / 2.7	0.35 / 2.32 / 4.0	
			Current Input (Nominal)	Cooling ^{*1)}	A	1.7 / 5.3 / 6.4	2.5 / 7 / 8.5	2.0 / 10.5 / 21.0
				(Min / Std / Max)		1.3 / 5.1 / 7.9	2.1 / 7.5 / 12	2.0 / 10.5 / 21.0
	COP	Nominal Cooling		-	3.04	3.23	3.21	
		Nominal Heating		-	3.62	3.64	3.61	
		Energy Grade	Cooling / Heating	-	B / A	A / A	A / A	
	Option Code			-	013773-1581DB	015771-1983E6	"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)	12.7 (1/2)	15.88 (5/8)		
Refrigerant	Installation Limitation	Max. Length	m	20.0	50.0	50.0		
		Max. Height	m	15.0	30.0	30.0		
	Type			R410A	R410A	R410A		
	Control Method			EEV	EEV	EEV		
Factory Charging			kg	1.0	1.5	1.8		
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	kW	25	60	60	
		Number of Unit		EA	1	1	1	
		Air Flow Rate	High / Mid / Low	CMM	11.0 / 10.0 / 9.0	16.5 / 15.0 / 13.5	19.0 / 17.0 / 15.0	
		External Static Pressure	Min / Std / Max	mmAq	0 / 2 / 4	0 / 2 / 4	0 / 2 / 4	
	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 / 29.5 / 27	33 / 31.5 / 30	36 / 34 / 32	
	External Dimension	Net Weight		kg	26	31	32	
		Shipping Weight		kg	31	39	40	
		Net Dimensions (WxHxD)		mm	900 x 199 x 600	1100 x 199 x 600	1100 x 199 x 600	
		Shipping Dimensions (WxHxD)		mm	1133 x 333 x 722	1330 x 330 x 730	1330 x 330 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	-	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	
	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			G4C090LUDER	G8T200FUAEW	UG4T200FUAEE4	
Oil	Type			POE	POE	POE		
	Initial Charge			cc	320	700	650	
Fan	Air Flow Rate	Cooling / Heating	CMM	-	-	50.0 / 48.0		
Sound	Sound Pressure ^{*3)}	Cooling / Heating	CFM	-	-	1,766 / 1,695		
Outdoor Unit	External Dimension	Net Weight		kg	32.6	50	55	
		Shipping Weight		kg	35.4	53	59	
		Net Dimensions (WxHxD)		mm	790 x 548 x 285	880 x 638 x 310	880 x 798 x 310	
		Shipping Dimensions (WxHxD)		mm	938 x 610 x 382	1,023 x 704 x 413	1,023 x 889 x 416	
	Operating Temp. Range	Cooling	°C	-10 ~ 43	-15 ~ 43	-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 a dead room. Thus actual noise level may be different depending on the installation conditions.

4-2. Capacity tables

1) NS035LHXEA

(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	3.11	2.52	1.01	3.23	2.63	1.02	3.58	2.71	1.02	3.11	2.54	1.15	2.65	2.27	1.27
16	22	3.34	2.52	1.05	3.39	2.58	1.02	3.74	2.67	1.02	3.27	2.50	1.15	2.80	2.25	1.29
18	25	3.48	2.64	1.05	3.54	2.71	1.04	3.93	2.81	1.02	3.42	2.63	1.15	2.93	2.36	1.29
19	27	3.55	2.78	1.05	3.61	2.86	1.04	4.02	2.98	1.02	3.50	2.79	1.15	3.00	2.51	1.29
22	30	3.76	2.67	1.08	3.85	2.76	1.04	4.28	2.89	1.03	3.73	2.70	1.16	3.20	2.43	1.29
24	32	3.91	2.60	1.08	3.99	2.68	1.06	4.45	2.81	1.03	3.89	2.64	1.16	3.35	2.37	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		2.20	1.15	3.42	1.26	3.62	1.35	3.79	1.26	4.10	1.08	4.31	1.14
18		2.35	1.16	3.33	1.28	3.55	1.41	3.74	1.27	4.06	1.10	4.25	1.14
20		2.45	1.18	3.25	1.29	3.50	1.42	3.68	1.27	4.00	1.11	4.21	1.15
21		2.50	1.18	3.22	1.29	3.46	1.42	3.65	1.29	3.97	1.11	4.17	1.16
22		2.65	1.18	3.18	1.29	3.43	1.44	3.62	1.29	3.94	1.11	4.15	1.16
24		2.76	1.19	3.12	1.31	3.36	1.46	3.56	1.30	3.90	1.12	4.09	1.18

2) NS052LHXEA

(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	4.74	3.58	1.31	4.84	3.65	1.39	4.84	3.64	1.50	4.44	3.07	1.55	4.28	3.42	2.25
16	22	5.08	3.58	1.37	5.08	3.59	1.39	5.07	3.58	1.50	4.67	3.03	1.55	4.51	3.38	2.28
18	25	5.29	3.76	1.37	5.32	3.78	1.42	5.32	3.77	1.50	4.88	3.18	1.55	4.72	3.56	2.28
19	27	5.40	3.96	1.37	5.42	3.98	1.42	5.44	4.00	1.50	5.00	3.38	1.55	4.84	3.78	2.28
22	30	5.72	3.80	1.40	5.78	3.84	1.42	5.79	3.87	1.52	5.33	3.27	1.57	5.17	3.66	2.28
24	32	5.95	3.70	1.40	6.00	3.74	1.44	6.02	3.77	1.52	5.56	3.20	1.57	5.40	3.58	2.32

(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	5.26	1.97	5.58	2.13	5.82	1.97	6.16	1.61	6.62	1.75
18		3.53	2.06	5.12	2.00	5.47	2.23	5.75	1.99	6.09	1.63	6.53	1.75
20		3.67	2.09	5.00	2.02	5.39	2.25	5.65	1.99	6.00	1.65	6.46	1.77
21		3.75	2.09	4.96	2.02	5.32	2.25	5.61	2.02	5.96	1.65	6.40	1.79
22		3.98	2.09	4.89	2.02	5.28	2.28	5.55	2.02	5.91	1.65	6.37	1.79
24		4.14	2.12	4.79	2.05	5.17	2.31	5.47	2.04	5.84	1.67	6.28	1.81

Note

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

4 Slim duct

4-2. Capacity tables

3) 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			43		
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

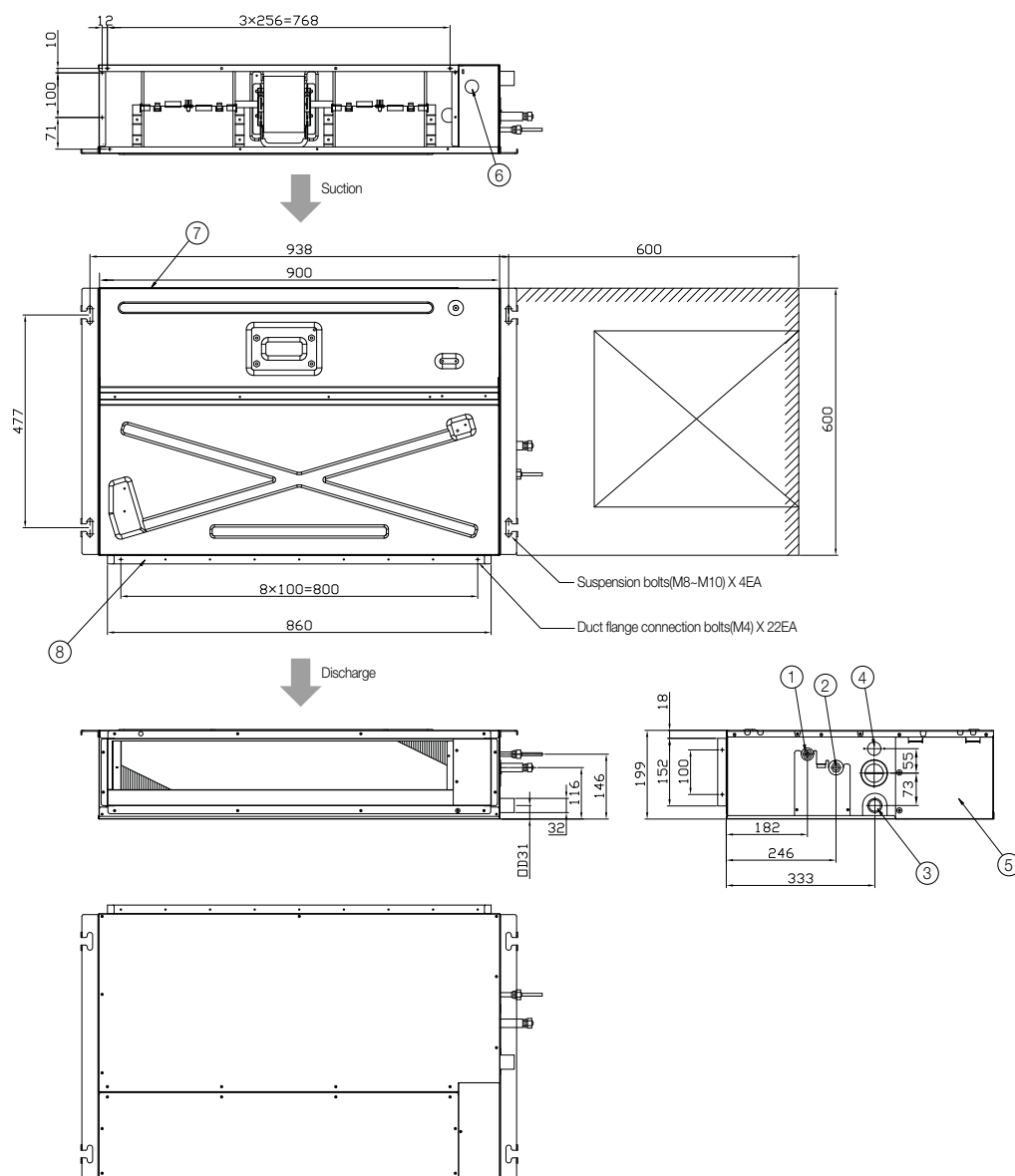
☑ Note

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

4-3. Dimensional drawing

1) NS035LHXE*

Unit:mm

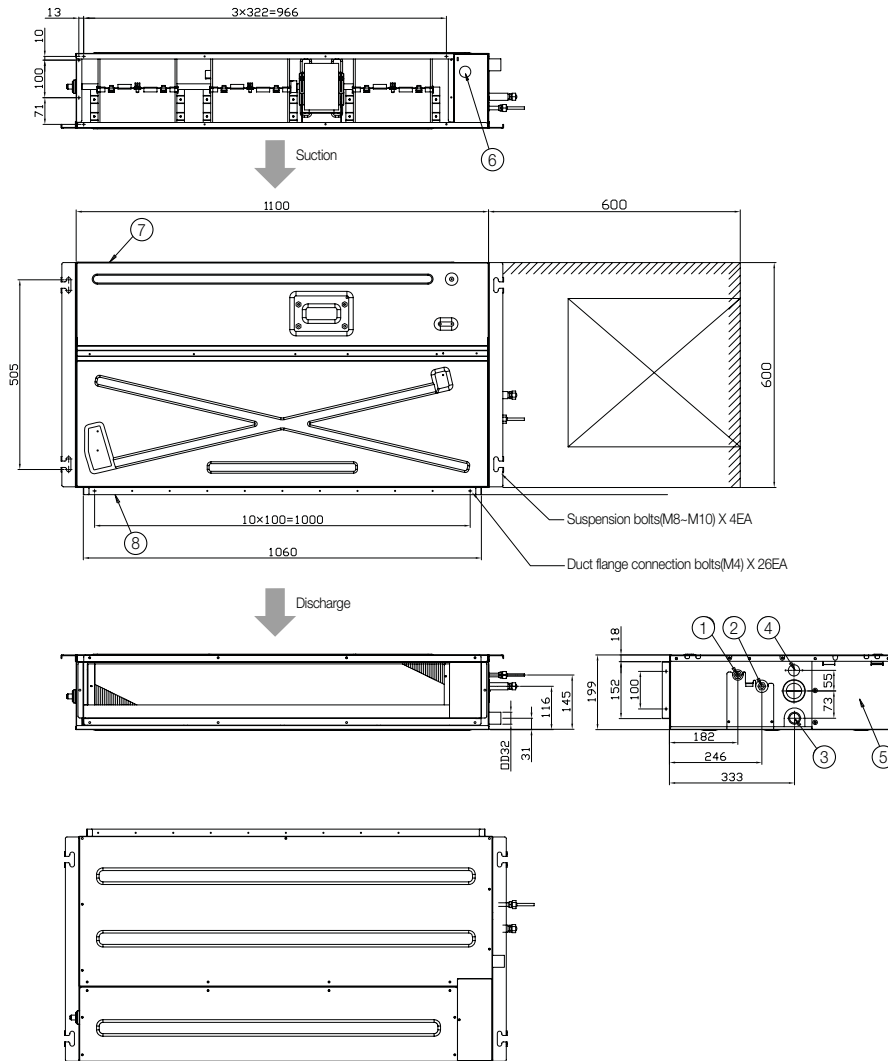


No.	Name	Description
		3.5kW
①	Liquid pipe connection	Ø6.35mm (1/4") Flare
②	Gas pipe connection	Ø9.52mm (3/8") Flare
③	Drain pipe connection without optional drain pump kits	VP25 (OD32, ID25)
④	Drain pipe connection with optional drain pump kits	-
⑤	Control unit	-
⑥	Conduit for power supply & communication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

4-3. Dimensional drawing

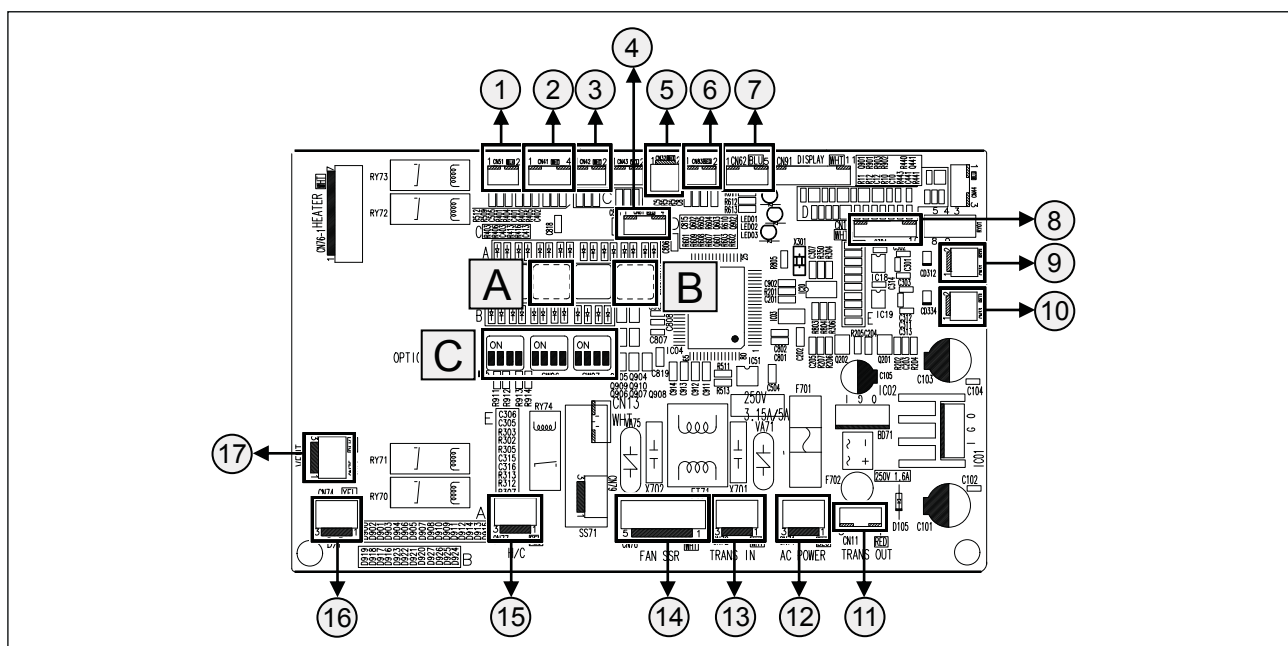
2) NS052LHXE*/ NS071LDXE*

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	Ø9.52mm (3/8") 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



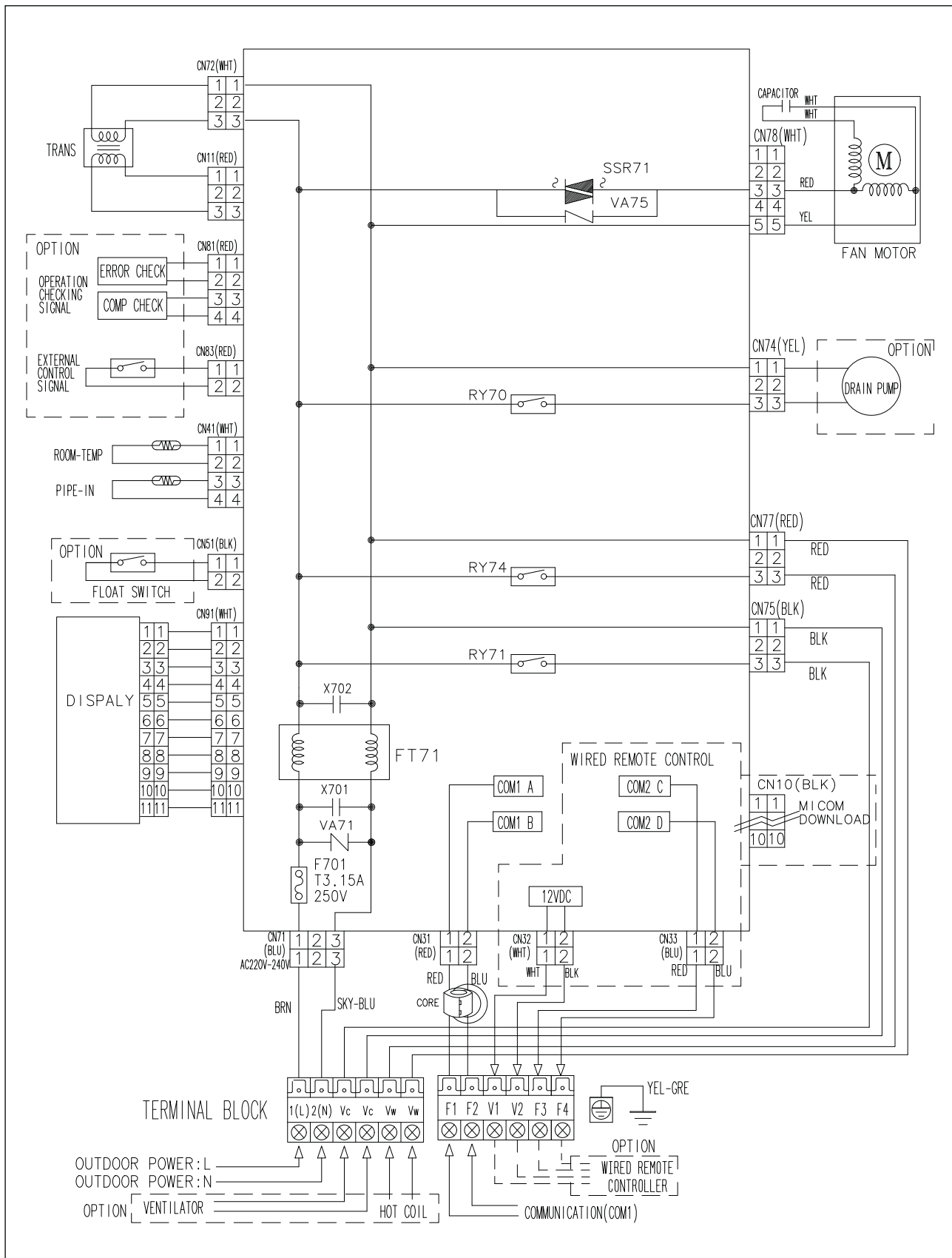
No.	CN #	Color	Function
①	CN51	Black	Float Switch
②	CN41	White	Indoor Room & Eva In Temp. Sensor
③	CN42	White	Eva Out Temp. Sensor
④	CN81	Red	External Control (Error Check, Indoor Unit Operation)
⑤	CN32	White	DC 12V for Wired Remote Controller
⑥	CN83	Red	External Contact Control
⑦	CN91	White	Display
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

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

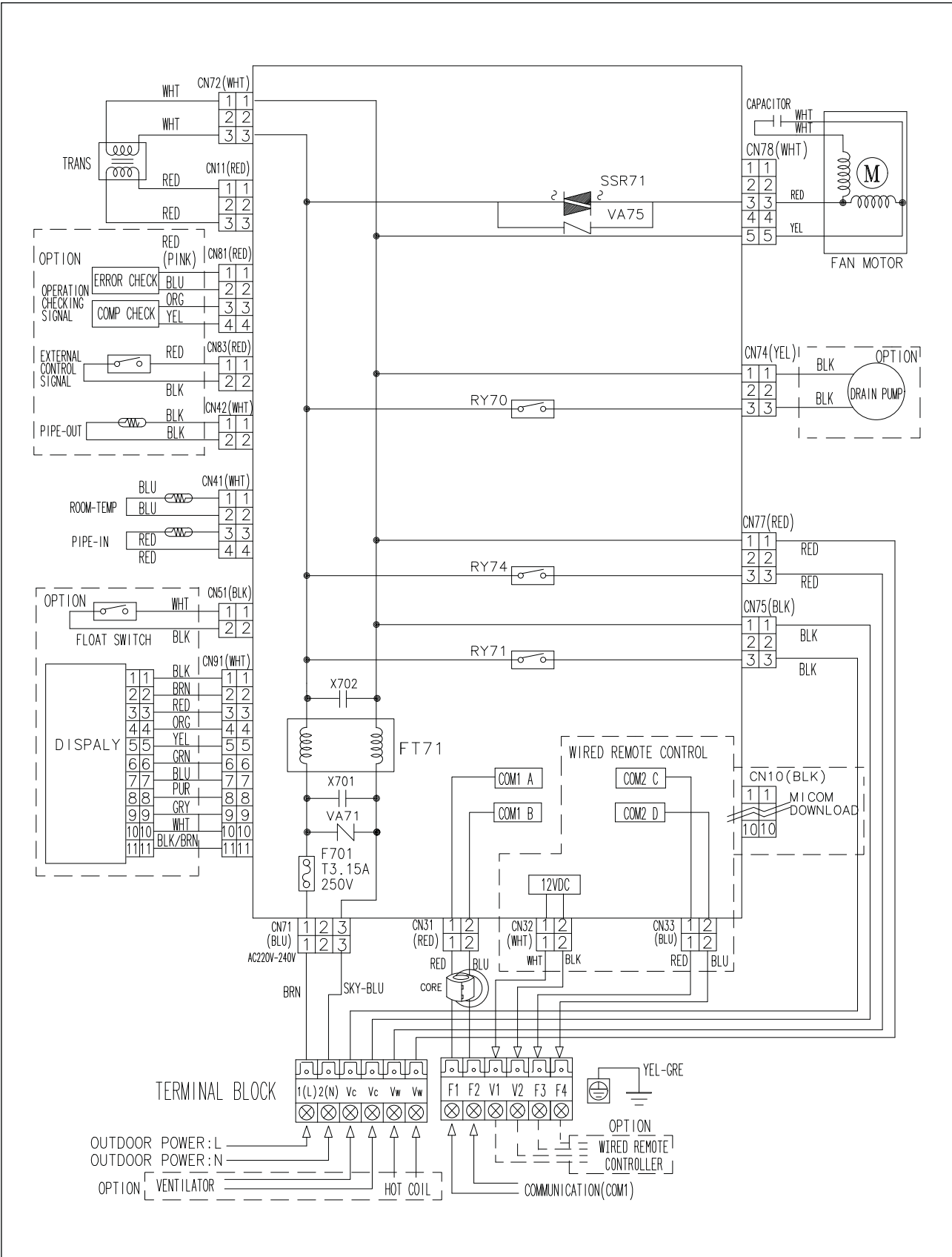
No.	S/W	Function	On	Off
C	K1	External Room Sensor	Not Use	Use
	K2	Centralized Controller	Not Use	Use
	K3	-	-	-
	K4	Drain Pump	Not Use	Use
	K5	Heating Thermo-off	+2°C	+5°C
	K6	Filter Signal Display	1,000Hrs	2,000Hrs
	K7	Hot Water Heater	Not Use	Use
	K8	-	-	-
	K9	Min. EEV Step at Heating	Fixed 80 step	0 or 80 step
	K10	Wired Remote Controller Group Master	Note	Master
	K11	External Contact Control	Not Use	Use
	K12	External Control Output	Thermo On	Operation On

4-5. Electrical wiring diagram

1) NS035/052LHXEA



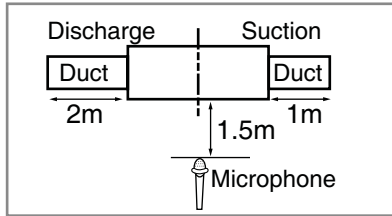
2) NS071LDXEA



4 Slim duct

4-6. Sound pressure level

1) Operation sound level



Unit : dB(A)

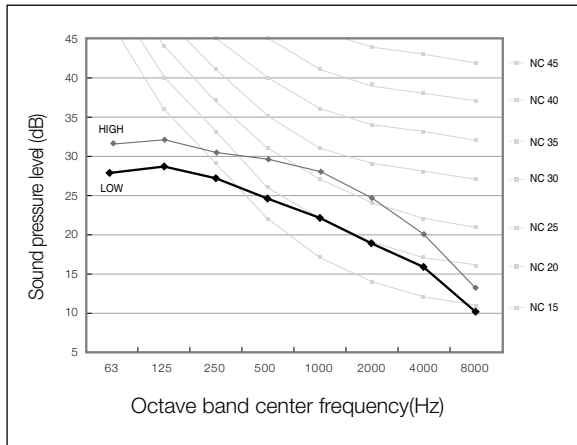
Model	High	Low
NS035LHXEA	32	27
NS052LHXEA	33	30
NS071LDXEA	36	32

✓ Note

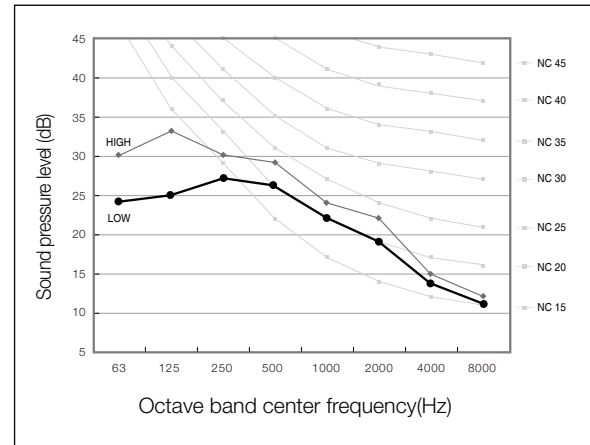
- ◆ These operation values were obtained in a dead room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- ◆ Operation sound level may differ depending on operation and ambient conditions.

2) NC curves

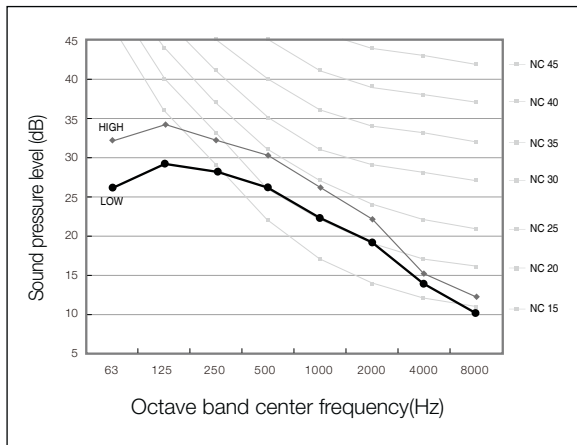
(1) NS035LHXEA



(2) NS052LHXEA



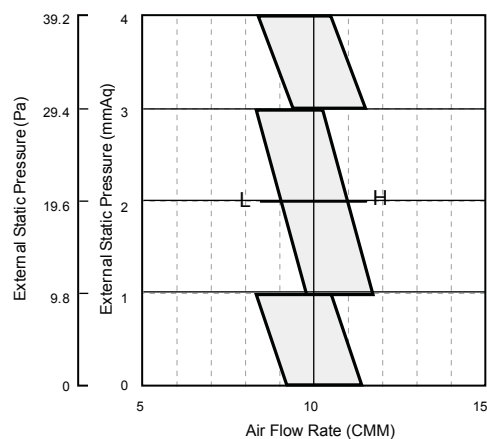
(3) NS071LDXEA



4-7. Recommended operation range

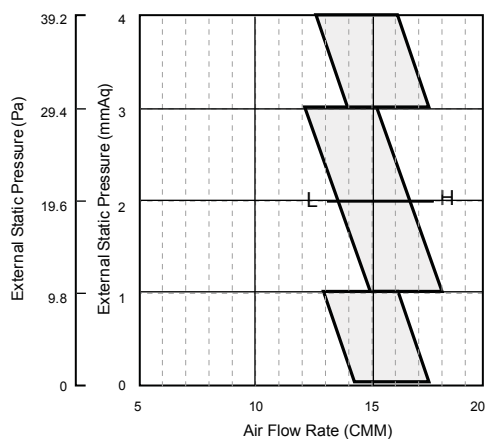
◆ Adjust option code according to the actual installation condition (external static pressure).

(1) NS035LHXEA



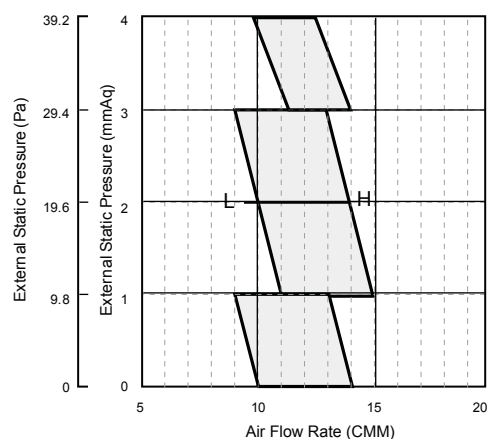
External Static pressure (mmAq)	Option code
0	013773-158185
2	013773-1581D8
4	013774-158262

(2) NS052LHXEA



External Static pressure (mmAq)	Option code
0	015771-1983C4
2	015771-1983E6
4	015773-198339

(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.



Specifications



5 MSP(Middle static pressure) duct

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5-1. Specifications

1) Technical specifications

Model Name		Indoor Unit		Outdoor Unit		DH052EAV1	NS071SDXEA	NS090SDXEA
System	Mode				-	UH052EAV1	RC071DHXEA	RC090DHXEA
					Heat Pump	Heat Pump	Heat Pump	
	Capacity	Capacity (Nominal)	Cooling ^{*1)}	kW	1.7 / 5.0 / 6.0	2.2 / 7.1 / 8.0	2.8 / 9.0 / 11.5	
			(Min / Std / Max)	Btu/h	5,800 / 17,100 / 20,500	7,500 / 24,200 / 27,300	9,600 / 30,700 / 39,200	
			Heating ^{*2)}	kW	1.7 / 6.0 / 8.3	1.9 / 8.0 / 9.0	3.0 / 10.0 / 15.5	
			(Min / Std / Max)	Btu/h	5,800 / 20,500 / 28,300	6,500 / 27,300 / 30,700	10,200 / 34,100 / 52,900	
	Power	Power Input (Nominal)	Cooling ^{*1)}	kW	0.55 / 1.56 / 1.95	0.35 / 2.21 / 4.0	0.82 / 2.8 / 3.8	
			(Min / Std / Max)		0.48 / 1.76 / 2.75	0.35 / 2.22 / 4.0	0.8 / 2.77 / 5.2	
			Current Input (Nominal)	Cooling ^{*1)}	A	3.1 / 7.5 / 9.3	2.0 / 10.5 / 21.0	4 / 13 / 16.5
				(Min / Std / Max)		2.6 / 8.4 / 13.1	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		-	A / B	A / A	A / A	
	Option Code			-	019771-1983C4	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)	12.7 (1/2)	15.88 (5/8)	15.88 (5/8)		
Refrigerant	Installation Limitation		Max. Length	m	50.0	50.0	50.0	
			Max. Height	m	30.0	30.0	30.0	
	Type		-	R410A	R410A	R410A		
	Control Method		-	EEV	EEV	EEV		
Factory Charging			kg	1.45	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	Sirocco Fan	Sirocco Fan		
		Motor	Output	kW	200	200	200	
			Number of Unit	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	
				CFM	583 / 530 / 477	671 / 600 / 530	1,204 / 1,095 / 989	
	External Static Pressure	Min / Std / Max	mmAq	0 / 4 / 8	0 / 4 / 10	0 / 4 / 10		
			Pa	0 / 39.2 / 78.5	0 / 39.2 / 98.1	0 / 39.2 / 98.1		
	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)	37 / 35.5 / 33	39 / 37 / 35	39 / 37 / 35	
	External Dimension	Net Weight		kg	29.5	33	39	
		Shipping Weight		kg	35	40	46	
		Net Dimensions (WxHxD)		mm	900 x 260 x 480	1,150 x 260 x 480	1,150 x 320 x 480	
		Shipping Dimensions (WxHxD)		mm	1,146 x 363 x 584	1,405 x 354 x 593	1,400 x 430 x 590	
	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-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			
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	-	UG4T200FUAEW	UG4T200FUAEE4	UG8T300FUBJU		
		Oil	Type	-	POE	POE	POE	
	Initial Charge		cc	700	650	1,250		
	Fan	Air Flow Rate	Cooling / Heating	CMM	-	50.0 / 48.0	63.5 / 63.5	
				CFM	-	1,766 / 1,695	2,243 / 2,243	
	Sound	Sound Pressure ^{*3)}	Cooling / Heating	dB(A)	49 / 49	49 / 51	51 / 52	
	External Dimension	Net Weight		kg	50	55	72	
		Shipping Weight		kg	53	59	77	
		Net Dimensions (WxHxD)		mm	880 x 638 x 310	880 x 798 x 310	940 x 998 x 330	
		Shipping Dimensions (WxHxD)		mm	1023 x 704 x 413	1,023 x 889 x 416	995 x 1,096 x 426	
	Operating Temp. Range	Cooling		°C	-15 ~ 43	-15 ~ 50	-15 ~ 50	
Heating		°C	-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 a dead room. Thus actual noise level may be different depending on the installation conditions.

Model Name		Indoor Unit		Outdoor Unit		NS100SDXEA		NS100SDXEA		NS125SDXEA		NS125SDXEA			
						RC100DHXEA		RC100DHXGA		RC125DHXEB		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)}		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				
		(Min / Std / Max)													
		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			
		Nominal Heating				-		3.61		3.61		3.61			
		Energy Grade	Cooling / Heating			-		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			
Max. Height			m		30.0		30.0		30.0		30.0				
Refrigerant	Type				-		R410A		R410A		R410A				
	Control Method				-		EEV		EEV		EEV				
	Factory Charging				kg		3.00		3.10		2.90				
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		Output		kW		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		
External Dimension	Net Weight				kg		55		55		55		55		
	Shipping Weight				kg		60		60		60		60		
	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 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			-		Optional / MDP-M075SGU2		Optional / MDP-M075SGU2		Optional / MDP-M075SGU2		Optional / MDP-M075SGU2		
			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		
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		UG5T450FUEJX		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		
External Dimension	Net Weight				kg		72		81		88		91		
	Shipping Weight				kg		77		86		98		101		
	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 a dead 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
	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	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	11,800 / 47,800 / 52,500
			Heating ^{*2)}	(Min / Std / Max)	kW	3.75 / 16.0 / 18.5	3.75 / 16.0 / 18.5	3.75 / 16.0 / 18.5	3.75 / 16.0 / 18.5
			Heating ^{*2)}	(Min / Std / Max)	Btu/h	12,800 / 54,600 / 63,100	12,800 / 54,600 / 63,100	12,800 / 54,600 / 63,100	12,800 / 54,600 / 63,100
	Power	Power Input (Nominal)	Cooling ^{*1)}	(Min / Std / Max)	kW	1.25 / 4.65 / 5.70	1.25 / 4.65 / 5.70	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	1.00 / 4.43 / 5.80	1.00 / 4.43 / 5.80
			Heating ^{*2)}	(Min / Std / Max)	kW	1.00 / 4.43 / 5.80	1.00 / 4.43 / 5.80	1.00 / 4.43 / 5.80	1.00 / 4.43 / 5.80
			Heating ^{*2)}	(Min / Std / Max)	kW	1.00 / 4.43 / 5.80	1.00 / 4.43 / 5.80	1.00 / 4.43 / 5.80	1.00 / 4.43 / 5.80
	COP	Current Input (Nominal)	Cooling ^{*1)}	(Min / Std / Max)	A	5.7 / 21.3 / 26.1	5.7 / 21.3 / 26.1	5.7 / 21.3 / 26.1	5.7 / 21.3 / 26.1
			Heating ^{*2)}	(Min / Std / Max)	A	4.5 / 20.3 / 26.5	4.5 / 20.3 / 26.5	4.5 / 20.3 / 26.5	4.5 / 20.3 / 26.5
			Heating ^{*2)}	(Min / Std / Max)	A	4.5 / 20.3 / 26.5	4.5 / 20.3 / 26.5	4.5 / 20.3 / 26.5	4.5 / 20.3 / 26.5
			Heating ^{*2)}	(Min / Std / Max)	A	4.5 / 20.3 / 26.5	4.5 / 20.3 / 26.5	4.5 / 20.3 / 26.5	4.5 / 20.3 / 26.5
	Option Code	Nominal Cooling		-	-	3.01	3.01	3.01	3.01
		Nominal Heating		-	-	3.61	3.61	3.61	3.61
		Energy Grade		Cooling / Heating	-	B / A	B / A	B / A	B / A
Indoor Unit	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)
	Refrigerant	Type		-	-	R410A	R410A	R410A	R410A
		Control Method		-	-	EEV	EEV	EEV	EEV
	Factory Charging		kg		-	3.40	3.40	3.40	3.40
	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		Output	kW	370	370	370	370
		Number of Unit		EA	-	2	2	2	2
		Air Flow Rate		High / Mid / Low	CMM	43.0 / 39.0 / 35.0	43.0 / 39.0 / 35.0	43.0 / 39.0 / 35.0	43.0 / 39.0 / 35.0
	Drain	External Static Pressure		Min / Std / Max	mmAq	0 / 6 / 14	0 / 6 / 14	0 / 6 / 14	0 / 6 / 14
				Pa	-	0 / 58.8 / 137.3	0 / 58.8 / 137.3	0 / 58.8 / 137.3	0 / 58.8 / 137.3
		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 Pressure ^{*3)}		High / Mid / Low	dB(A)	43 / 40.5 / 38	43 / 40.5 / 38	43 / 40.5 / 38	43 / 40.5 / 38
	External Dimension	Net Weight		kg	-	55	55	55	55
		Shipping Weight		kg	-	60	60	60	60
		Net Dimensions (WxHxD)		mm	-	1200 x 360 x 650	1200 x 360 x 650	1200 x 360 x 650	1200 x 360 x 650
		Shipping Dimensions (WxHxD)		mm	-	1447 x 425 x 769	1447 x 425 x 769	1447 x 425 x 769	1447 x 425 x 769
Outdoor Unit	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-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
	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		-	-	UG5T450FUEJX	UG5T450FUEJX	UG5T450FUEJX	UG5T450FUEJX
		Oil		Type	-	POE	POE	POE	POE
		Initial Charge		cc	-	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
				CFM	-	3,196 / 3,196	3,196 / 3,196	3,196 / 3,196	3,196 / 3,196
	Sound	Sound Pressure ^{*3)}		Cooling / Heating	dB(A)	52 / 54	52 / 54	52 / 54	52 / 54
				dB(A)	-	52 / 54	52 / 54	52 / 54	52 / 54
	External Dimension	Net Weight		kg	-	88	88	91	91
		Shipping Weight		kg	-	98	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
		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
	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 a dead room. Thus actual noise level may be different depending on the installation conditions.

Model Name		Indoor Unit		Outdoor Unit		DH052EAS		DH070EAS		NS090SSXEA		NS100SSXEA	
System	Mode				Heat Pump		Heat Pump		Heat Pump		Heat Pump		
	Capacity	Capacity (Nominal)	Cooling ^{*1)} (Min / Std / Max)	kW	1.6 / 5.0 / 6.0		2.2 / 7.1 / 8.0		2.8 / 9.0 / 10.0		2.8 / 10.0 / 11.5		
			Heating ^{*2)} (Min / Std / Max)	Btu/h	5,500 / 17,100 / 20,500		7,500 / 24,200 / 27,300		9,600 / 30,700 / 34,100		9,600 / 34,100 / 39,200		
	Power	Power Input (Nominal)	Cooling ^{*1)} (Min / Std / Max)	kW	0.54 / 1.55 / 1.95		0.7 / 2.72 / 3.07		0.82 / 3.2 / 3.6		0.82 / 3.56 / 3.8		
			Heating ^{*2)} (Min / Std / Max)		0.5 / 1.75 / 3		0.62 / 2.49 / 3.67		0.8 / 2.78 / 5.0		0.8 / 3.72 / 5.5		
		Current Input (Nominal)	Cooling ^{*1)} (Min / Std / Max)	A	2.7 / 7.1 / 8.7		3.1 / 12.4 / 13.7		3.8 / 14.0 / 19.5		3.8 / 16 / 19.5		
			Heating ^{*2)} (Min / Std / Max)		2.5 / 8 / 13.5		2.71 / 11.4 / 16.3		2.8 / 13.0 / 24.0		2.8 / 15 / 24		
	COP	Nominal Cooling		-		3.23		2.61		2.81		2.82	
		Nominal Heating		-		3.43		3.21		3.42		3.01	
		Energy Grade	Cooling / Heating	-		A / B		D / C		C / B		C / D	
	Option Code			-		018771-1983A2		015773-1C8185		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		50.0		50.0		50.0		50.0		
		Max. Height	m		30.0		30.0		30.0		30.0		
Refrigerant	Type		-		R410A		R410A		R410A		R410A		
	Control Method		-		EEV		EEV		EEV		EEV		
	Factory Charging		kg		1.35		1.35		2.50		2.50		
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		
Indoor Unit	Fan	Type		-		Sirocco Fan		Sirocco Fan		Sirocco Fan		Sirocco Fan	
		Motor	Output	kW		200		200		200		200	
			Number of Unit	EA		14k		2		2		2	
		Air Flow Rate	High / Mid / Low	CMM	12.5 / 10.0 / 7.5		14.5 / 13.0 / 10.5		24.0 / 22.5 / 20.5		25.5 / 24.0 / 22.0		
				CFM	441 / 353 / 265		512 / 459 / 371		848 / 795 / 724		901 / 848 / 777		
	External Static Pressure	Min / Std / Max	mmAq	0 / 4 / 8		0 / 4 / 8		0 / 4 / 8		0 / 4 / 8			
			Pa	0 / 39.2 / 78.5		0 / 39.2 / 78.5		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	
	External Dimension	Net Weight		kg		29.5		29.5		34		34	
Shipping Weight		kg		35		35		40		40			
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		
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		
Outdoor Unit	Compressor	Type		-		Twin BLDC Rotary		Twin BLDC Rotary		Twin BLDC Rotary		Twin BLDC Rotary	
		Model		-		G8T200FJAEW		G8T260FJAEW		UG8T300FUBJU		UG8T300FUBJU	
		Oil	Type	-		POE		POE		POE		POE	
	Fan	Air Flow Rate	Cooling / Heating	CMM		-		-		-		-	
			CFM	-		-		-		-		-	
	Sound	Sound Pressure ^{*3)}	Cooling / Heating	dB(A)		49 / 49		52 / 52		52 / 53		52 / 53	
	External Dimension	Net Weight		kg		50		50		72		72	
		Shipping Weight		kg		53		53		77		77	
		Net Dimensions (WxHxD)		mm		880 x 638 x 310		880 x 638 x 310		940 x 998 x 330		940 x 998 x 330	
		Shipping Dimensions (WxHxD)		mm		1023 x 704 x 413		1023 x 704 x 413		995 x 1096 x 426		995 x 1096 x 426	
Operating Temp. Range	Cooling		°C		-10 ~ 43		-10 ~ 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 a dead room. Thus actual noise level may be different depending on the installation conditions.

5 MSP(Middle static pressure) duct

5-2. Capacity tables

1) DH052EAV1

(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	4.80	3.75	1.28	5.01	3.82	1.39	5.18	3.88	1.58	4.43	3.08	1.56	4.36	3.48	2.32
16	22	5.14	3.75	1.34	5.26	3.75	1.39	5.42	3.81	1.58	4.67	3.03	1.56	4.59	3.44	2.35
18	25	5.35	3.93	1.34	5.51	3.95	1.42	5.69	4.01	1.58	4.88	3.18	1.56	4.81	3.61	2.35
19	27	5.47	4.14	1.34	5.61	4.16	1.42	5.82	4.26	1.58	5.00	3.38	1.56	4.93	3.84	2.35
22	30	5.80	3.97	1.37	5.98	4.01	1.42	6.20	4.13	1.60	5.33	3.27	1.58	5.27	3.72	2.35
24	32	6.03	3.87	1.37	6.21	3.90	1.44	6.44	4.01	1.60	5.57	3.20	1.58	5.50	3.63	2.40

(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	3.50	2.08	5.26	1.97	5.58	2.13	5.79	2.09	6.15	1.72	7.59	1.99
18	3.75	2.10	5.12	2.00	5.47	2.23	5.72	2.11	6.09	1.74	7.49	1.99
20	3.90	2.14	5.00	2.02	5.39	2.25	5.62	2.11	6.00	1.76	7.41	2.01
21	3.98	2.14	4.96	2.02	5.32	2.25	5.58	2.14	5.96	1.76	7.34	2.03
22	4.22	2.14	4.89	2.02	5.28	2.28	5.52	2.14	5.91	1.76	7.31	2.03
24	4.39	2.16	4.79	2.05	5.17	2.31	5.44	2.17	5.85	1.78	7.21	2.06

2) 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) 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) 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) 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) 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) DH052EAS

(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	3.18	2.89	1.97	3.41	3.04	2.16	5.28	3.94	1.54	4.44	3.07	1.55	4.39	3.51	2.23
16	22	3.40	2.89	2.06	3.57	2.99	2.16	5.53	3.87	1.54	4.65	3.02	1.55	4.63	3.47	2.26
18	25	3.54	3.03	2.06	3.74	3.14	2.21	5.80	4.08	1.54	4.88	3.18	1.55	4.85	3.65	2.26
19	27	3.62	3.19	2.06	3.81	3.31	2.21	5.94	4.33	1.54	5.00	3.38	1.55	4.97	3.88	2.26
22	30	3.84	3.06	2.11	4.06	3.19	2.21	6.33	4.19	1.56	5.33	3.27	1.57	5.31	3.75	2.26
24	32	3.99	2.98	2.11	4.21	3.11	2.24	6.57	4.08	1.56	5.53	3.18	1.57	5.55	3.67	2.30

(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		3.78	1.81	5.21	2.00	5.54	2.16	5.78	2.00	6.16	1.71	6.58	1.78
18		4.06	1.83	5.08	2.03	5.43	2.26	5.71	2.02	6.09	1.73	6.49	1.78
20		4.22	1.86	4.96	2.05	5.35	2.28	5.61	2.02	6.00	1.75	6.42	1.80
21		4.31	1.86	4.92	2.05	5.28	2.28	5.57	2.05	5.96	1.75	6.36	1.82
22		4.57	1.86	4.85	2.05	5.24	2.31	5.51	2.05	5.91	1.75	6.33	1.82
24		4.75	1.88	4.76	2.08	5.14	2.34	5.43	2.07	5.84	1.77	6.24	1.84

8) DH070EAS

(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	4.42	3.99	2.63	5.67	4.69	2.55	7.19	5.11	2.35	6.30	4.37	2.72	4.91	3.96	2.48
16	22	4.74	3.99	2.74	5.95	4.61	2.55	7.53	5.02	2.35	6.63	4.30	2.72	5.17	3.91	2.51
18	25	4.93	4.19	2.74	6.22	4.85	2.61	7.90	5.29	2.35	6.93	4.52	2.72	5.42	4.11	2.51
19	27	5.04	4.41	2.74	6.34	5.11	2.61	8.09	5.61	2.35	7.10	4.80	2.72	5.55	4.37	2.51
22	30	5.34	4.23	2.81	6.76	4.93	2.61	8.61	5.43	2.38	7.57	4.65	2.76	5.93	4.23	2.51
24	32	5.55	4.12	2.81	7.01	4.80	2.65	8.95	5.29	2.38	7.90	4.55	2.76	6.19	4.13	2.56

(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		5.16	2.60	6.95	2.83	7.30	3.02	7.59	2.84	8.21	2.43	8.51	2.59
18		5.53	2.63	6.77	2.88	7.16	3.15	7.50	2.87	8.13	2.46	8.40	2.59
20		5.75	2.68	6.61	2.91	7.06	3.18	7.37	2.87	8.00	2.49	8.31	2.62
21		5.87	2.68	6.56	2.91	6.97	3.18	7.32	2.92	7.87	2.49	8.23	2.65
22		6.23	2.68	6.47	2.91	6.92	3.23	7.24	2.92	7.87	2.49	8.20	2.65
24		6.48	2.71	6.34	2.96	6.78	3.27	7.14	2.95	7.79	2.52	8.08	2.68

☒ Note

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

5-2. Capacity tables

9) 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) 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

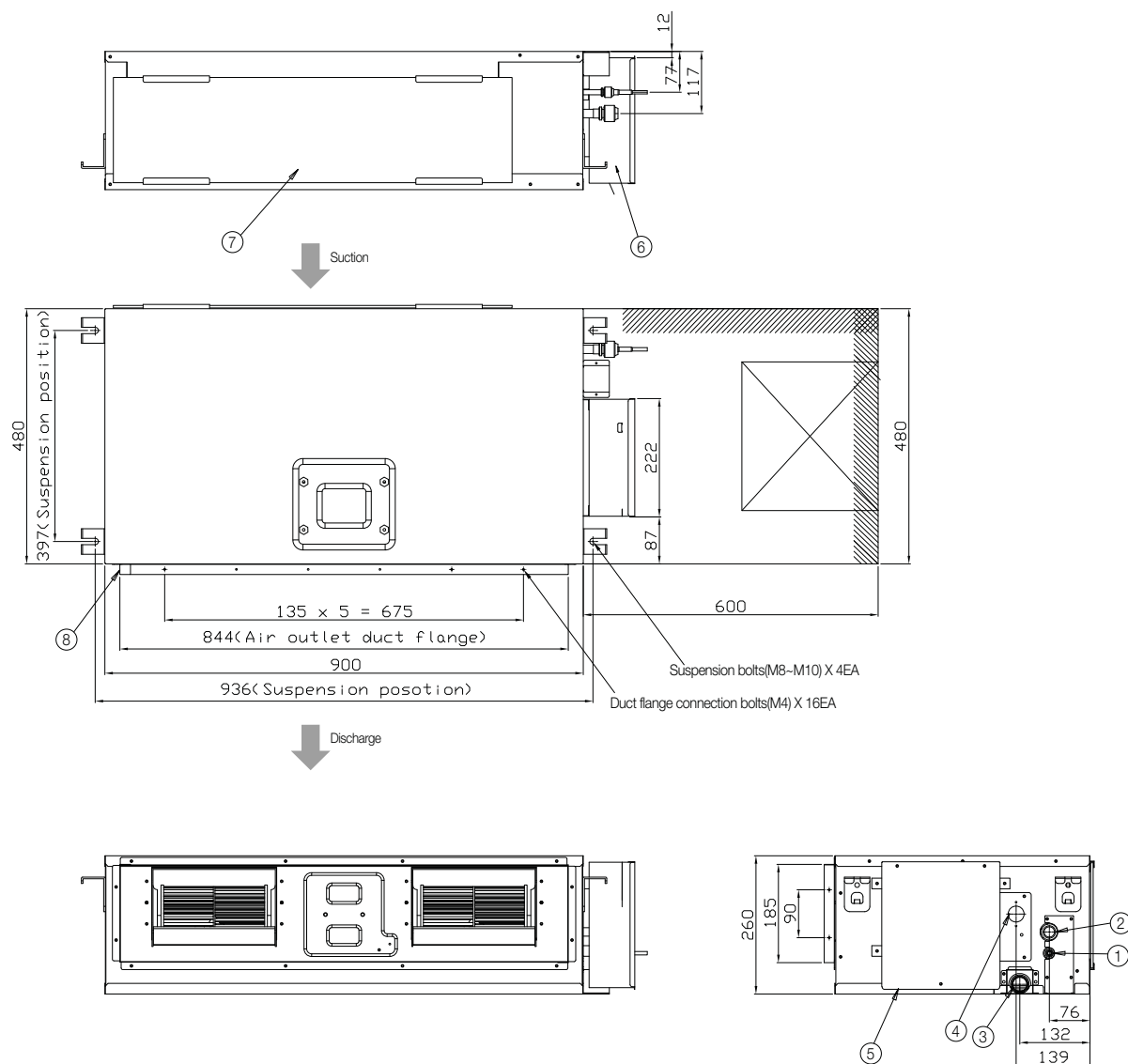
☒ Note

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

5-3. Dimensional drawing

1) DH052EAV1, DH052/070EAS

Unit:mm



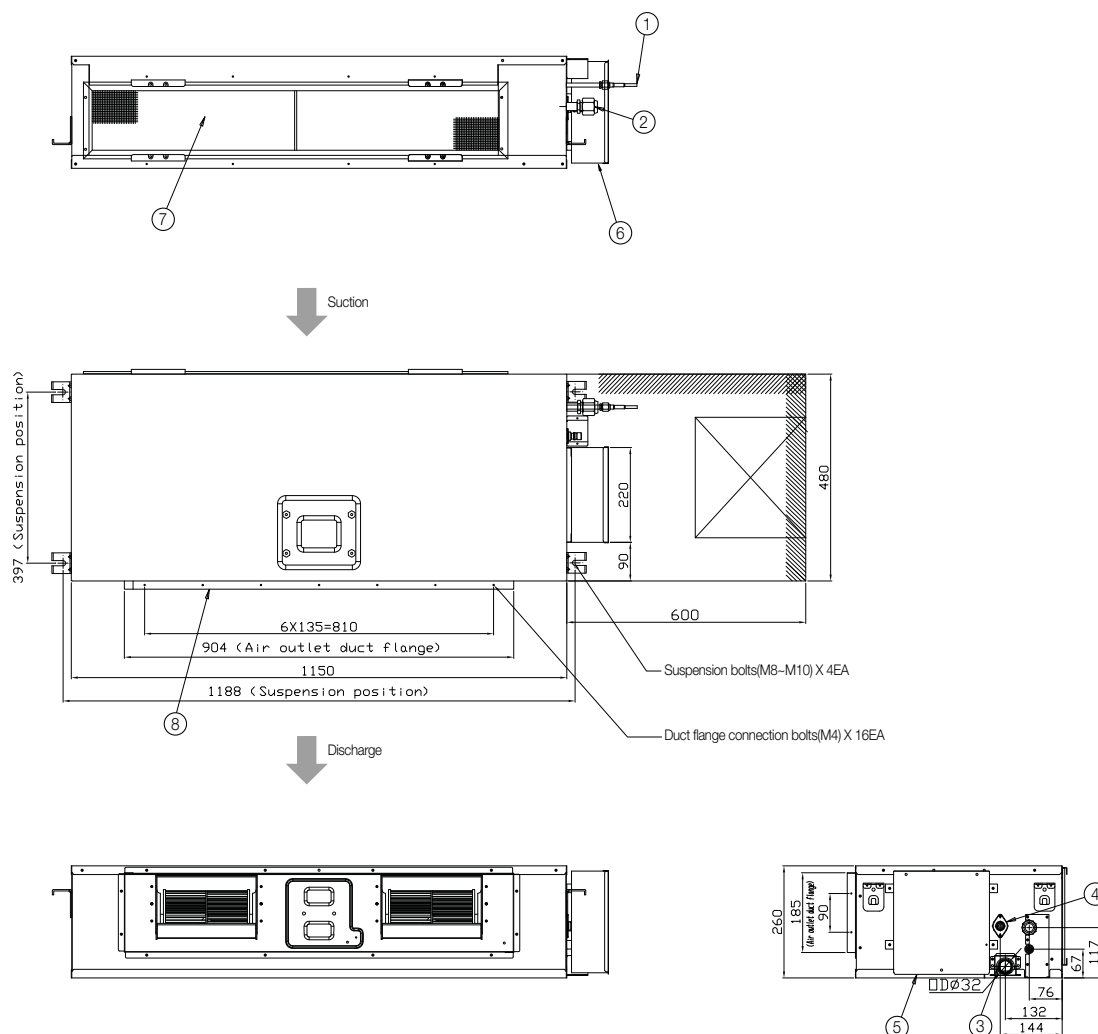
No.	Name	Description	
		5.2kW	7.0kW
①	Liquid pipe connection	Ø6.35mm (1/4") Flare	
②	Gas pipe connection	Ø12.70mm (1/2") Flare	Ø15.88mm (5/8") Flare
③	Drain pipe connection without optional drain pump kits	VP25 (OD32, ID25)	
④	Drain pipe connection with optional drain pump kits	-	
⑤	Control unit	-	
⑥	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) NS071SD*, NS090/100SS*

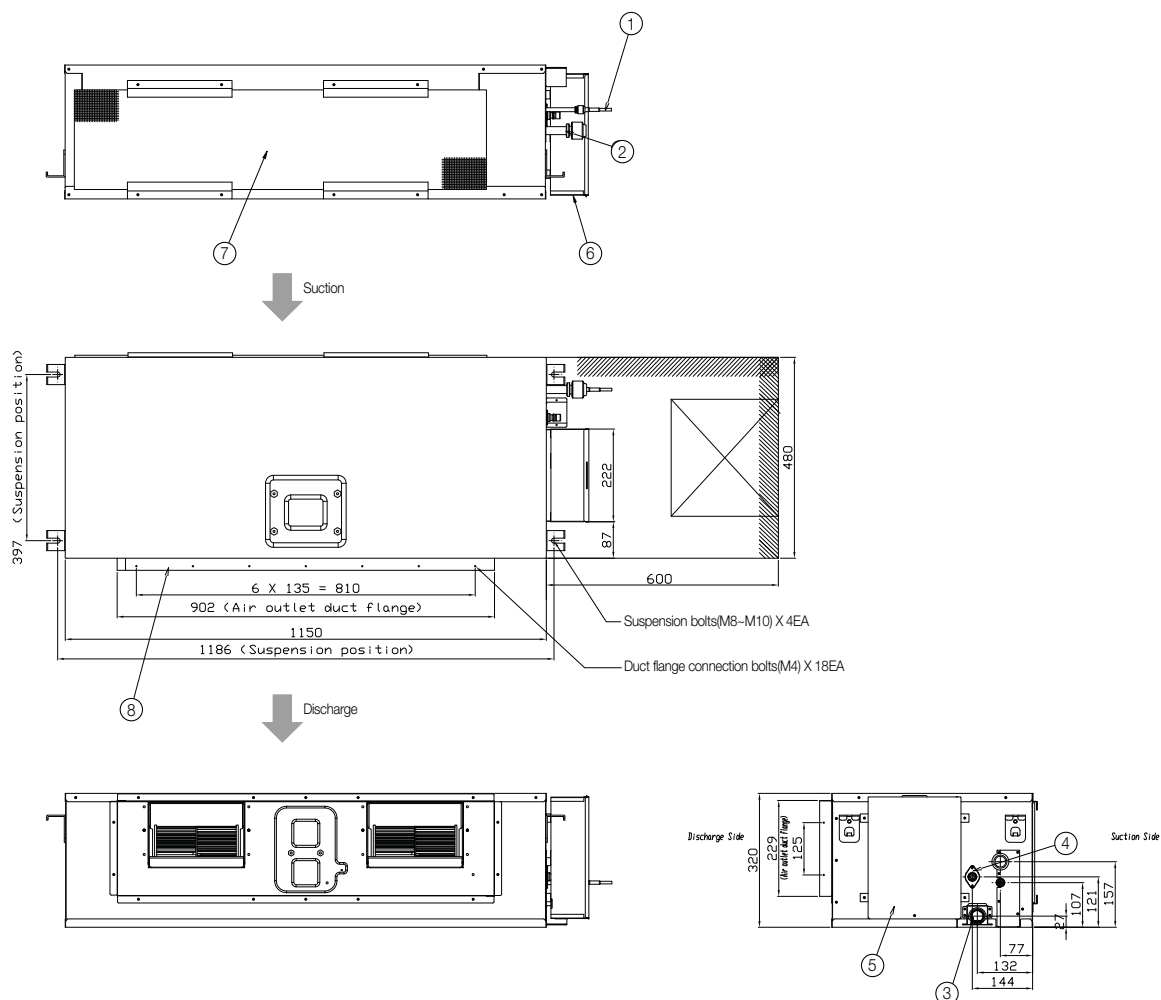
Unit:mm



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) NS090SD*

Unit:mm



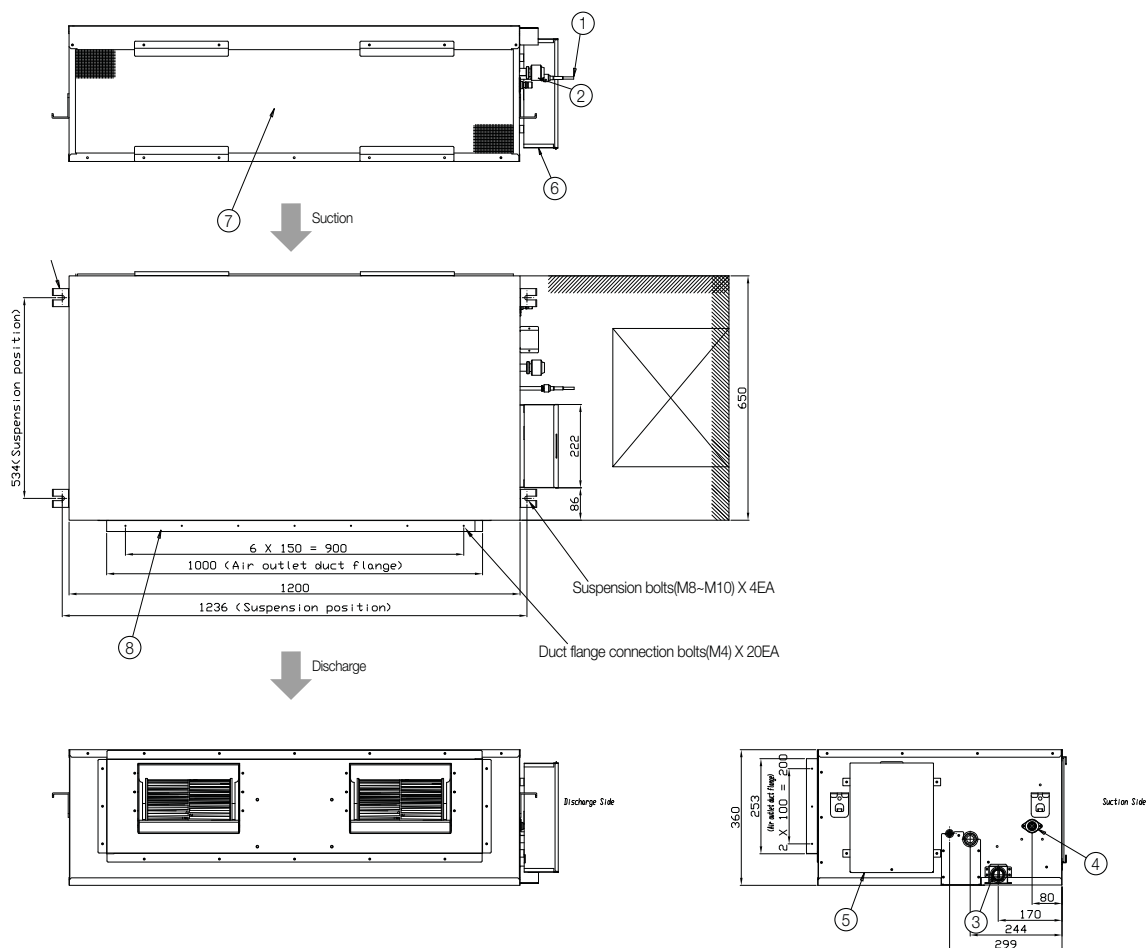
No.	Name	Description
		9.0kW
①	Liquid pipe connection	Ø9.52mm (3/8") Flare
②	Gas pipe connection	Ø15.88mm (5/8") Flare
③	Drain pipe connection without optional drain pump kits	VP25 (OD32, ID25)
④	Drain pipe connection with optional drain pump kits	-
⑤	Control unit	-
⑥	Conduit for power supply & communication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

5

5-3. Dimensional drawing

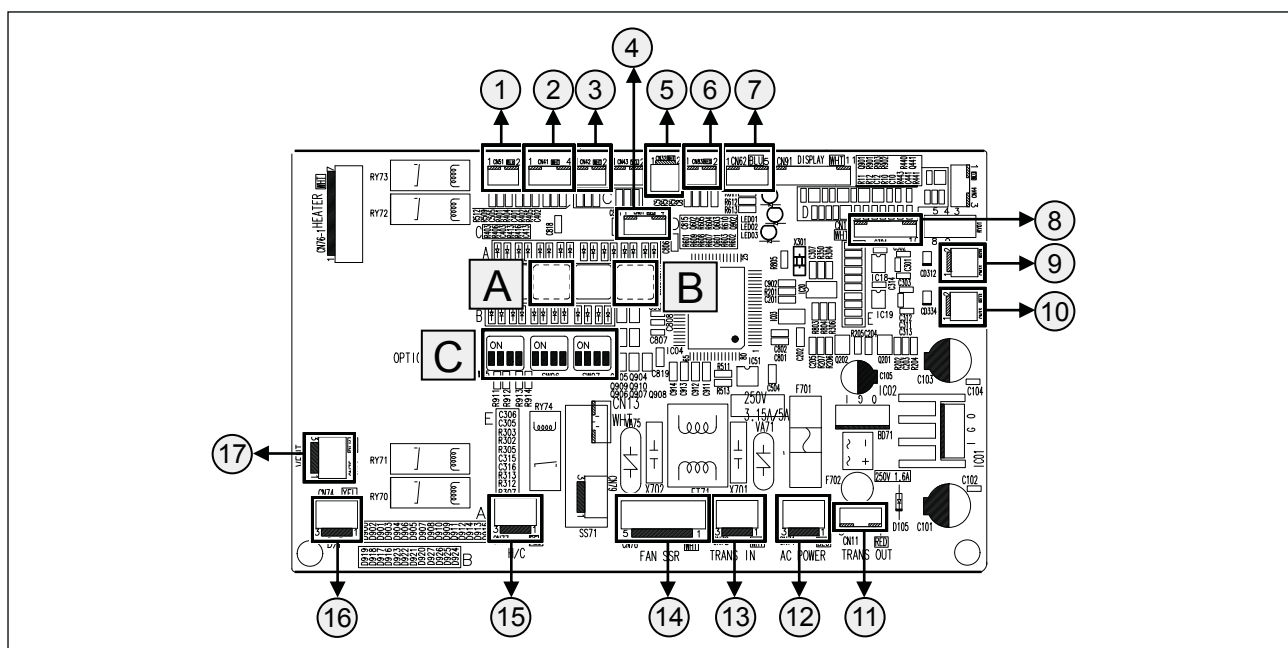
4) NS100/125/140SD*

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



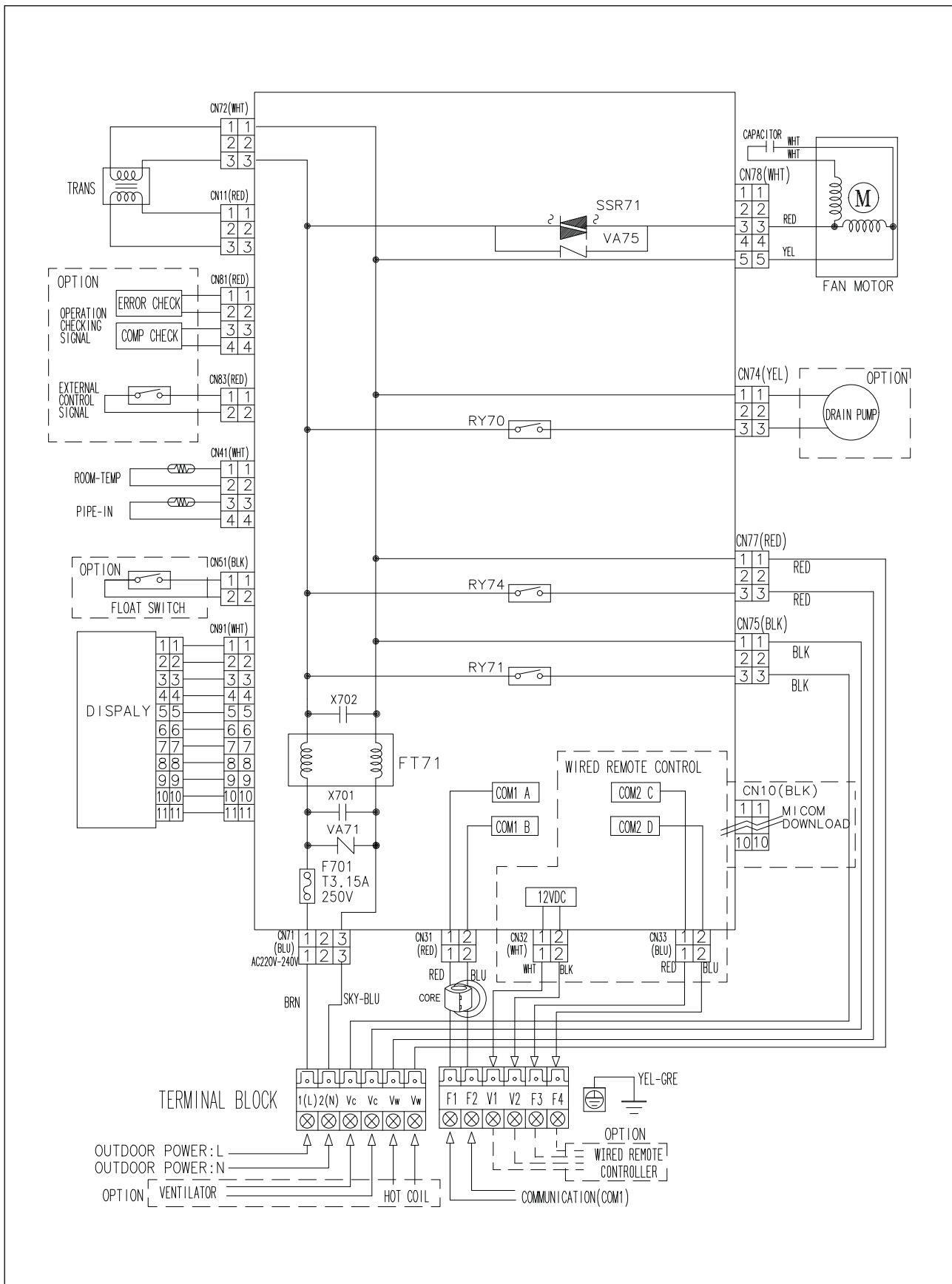
No.	CN #	Color	Function
①	CN51	Black	Float Switch
②	CN41	White	Indoor Room & Eva In Temp. Sensor
③	CN42	White	Eva Out Temp. Sensor
④	CN81	Red	External Control (Error Check, Indoor Unit Operation)
⑤	CN32	White	DC 12V for Wired Remote Controller
⑥	CN83	Red	External Contact Control
⑦	CN91	White	Display
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

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

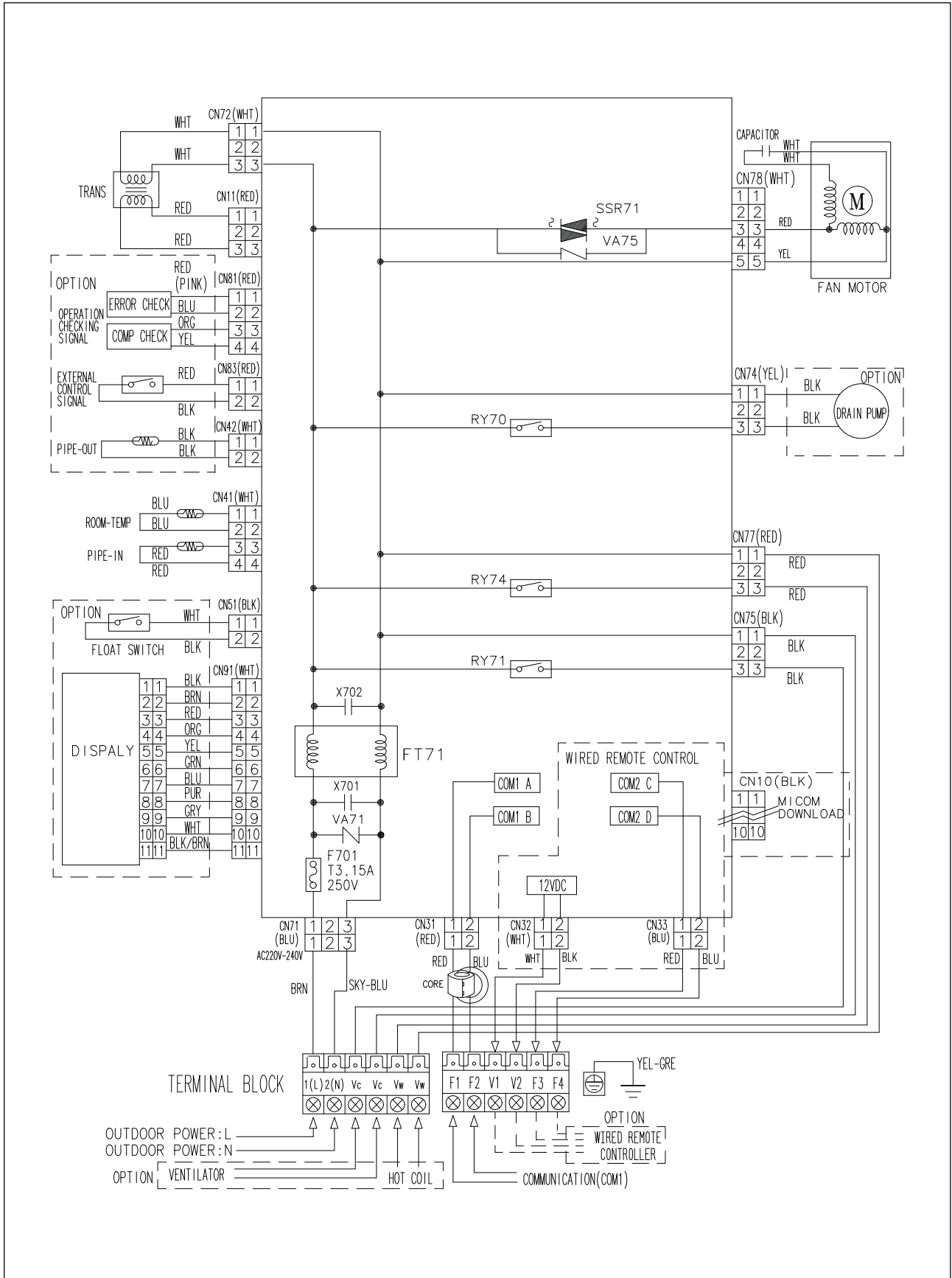
No.	S/W	Function	On	Off
C	K1	External Room Sensor	Not Use	Use
	K2	Centralized Controller	Not Use	Use
	K3	-	-	-
	K4	Drain Pump	Not Use	Use
	K5	Heating Thermo-off	+2°C	+5°C
	K6	Filter Signal Display	1,000Hrs	2,000Hrs
	K7	Hot Water Heater	Not Use	Use
	K8	-	-	-
	K9	Min. EEV Step at Heating	Fixed 80 step	0 or 80 step
	K10	Wired Remote Controller Group Master	Note	Master
	K11	External Contact Control	Not Use	Use
	K12	External Control Output	Thermo On	Operation On

5-5. Electrical wiring diagram

1) DH052EAV1, DH052/070EAS

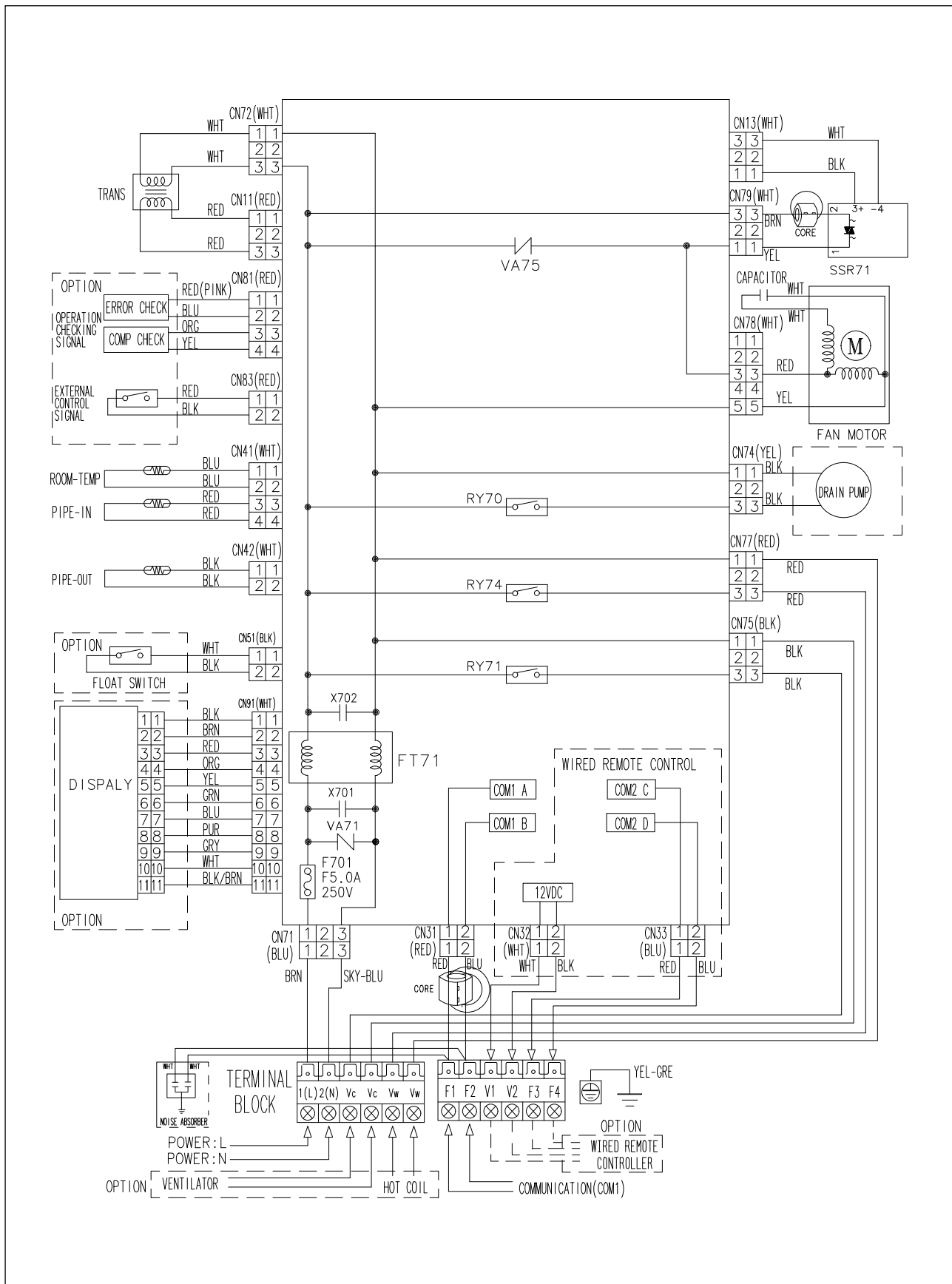


2) NS072SDXEA



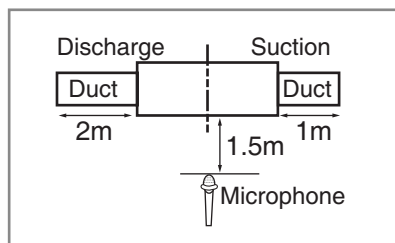
5-5. Electrical wiring diagram

3) NS090/100/125/140SDXE*, NS090/100SSXE*



5-6. Sound pressure level

1) Operation sound level



Model	Unit : dB(A)	
	High	Low
DH052EAV1	37	33
NS071SDXEA	39	35
NS090SDXEA	39	35
NS100SDXEA	39	35
NS125SDXEA	43	38
NS140SDXEA	43	38

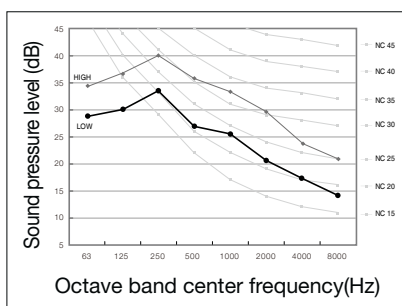
Model	Unit : dB(A)	
	High	Low
DH052EAS	37	33
DH070EAS	38	34
NS090SSXEA	39	35
NS100SSXEA	40	33

✓ Note

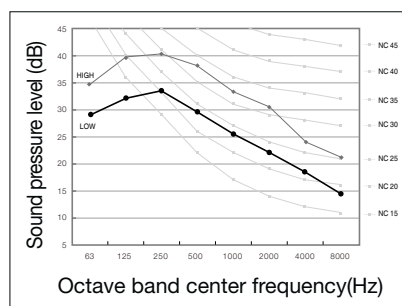
- ◆ These operation values were obtained in a dead room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- ◆ Operation sound level may differ depending on operation and ambient conditions.

2) NC curves

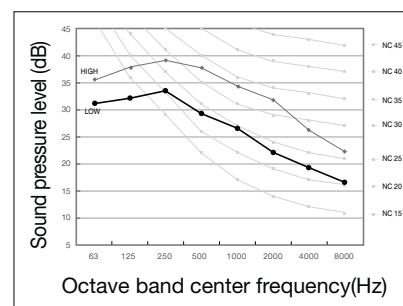
(1) DH052EAV1/EAS



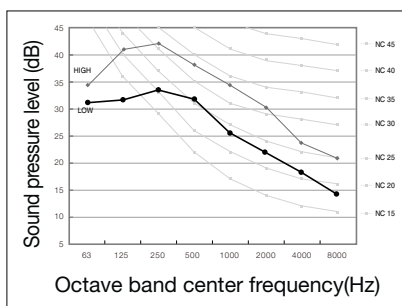
(2) NS071SDXEA/, DH070EAS



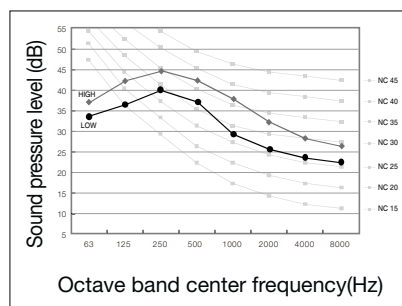
(3) NS090SDXEA, NS090SSXEA



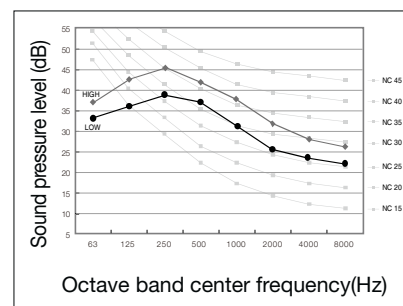
(4) NS100SDXEA, NS100SSXEA



(5) NS125SDXEA



(6) NS140SDXEA

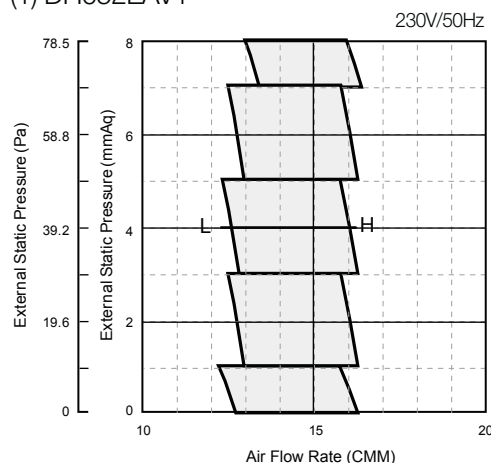


5 MSP(Middle static pressure) duct

5-7. Recommended operation range

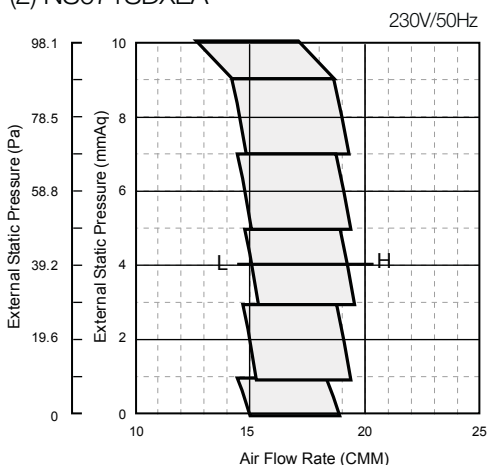
◆ Adjust option code according to the actual installation condition (external static pressure).

(1) DH052EAV1



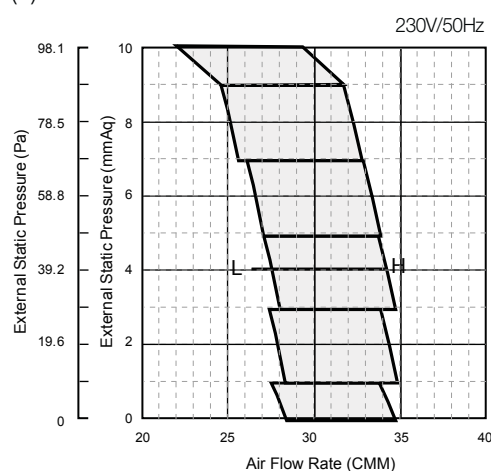
External Static pressure (mmAq)	Option code
0	018771-198381
2	019771-1983A3
4	019771-1983C4
6	019773-198126
8	018773-19836A

(2) NS071SDXEA



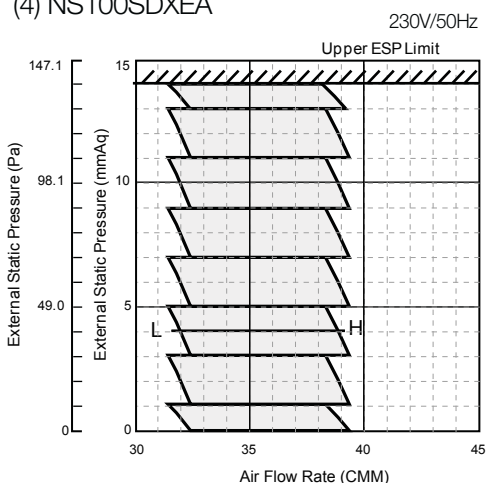
External Static pressure (mmAq)	Option code
0	011017-1563E7-274750-3700010
2	011037-15613A-274750-3700010
4	011037-11618C-274750-3700010
6	011047-116203-274750-3700010
8	011047-1162FF-274750-3700010
10	011047-1263FD-274750-3700010

(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



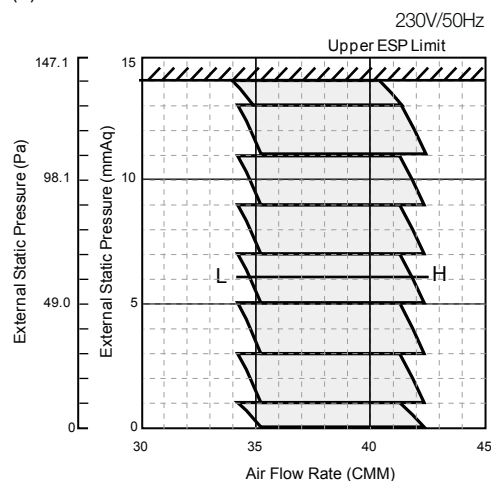
External Static pressure (mmAq)	Option code
0	011044-156083-276470-370000
2	011044-1560A4-276470-370000
4	011044-1560E8-276470-370000
6	011044-1560F8-276470-370000
8	011044-15621A-276470-370000
10	011044-15626C-276470-370000
12	011044-15629E-276470-370000
14	011044-1563C0-276470-370000

✓ Note

◆ ESP = External Static Pressure

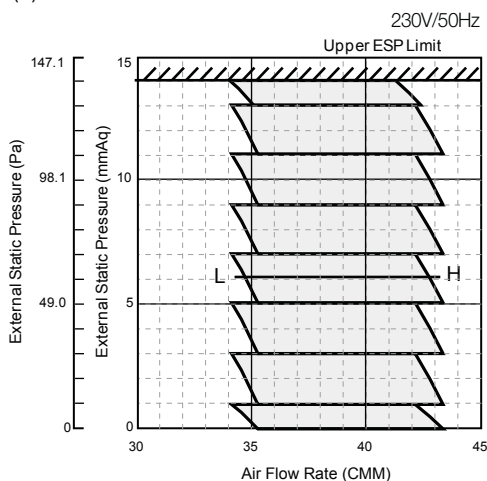
◆ The graphs display the available external static pressure range of installed indoor units. Therefore, they do not reflect the actual change of external static pressure and airflow rate according to adjusted airflow (High-Mid-Low) of installed indoor units.

(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

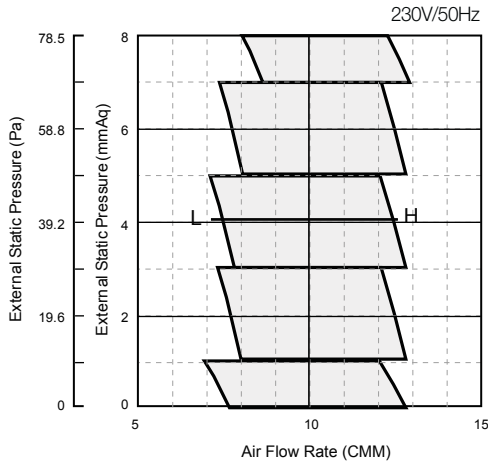
☒ Note

- ◆ 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.

5-7. Recommended operation range

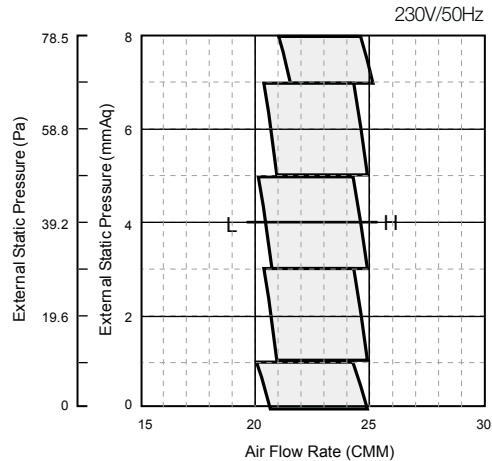
◆ Adjust option code according to the actual installation condition (external static pressure).

(7) DH052EAS



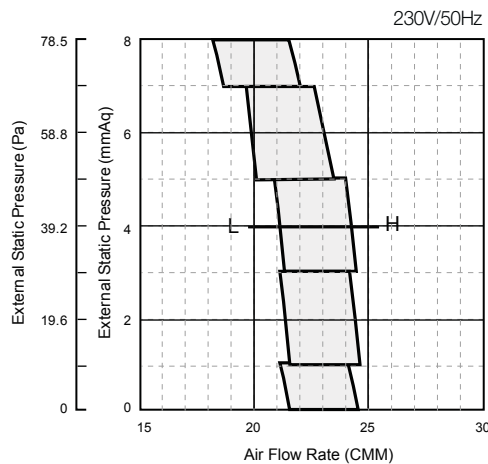
External Static pressure (mmAq)	Option code
0	018771-198247
2	018771-198360
4	018771-1983A2
6	018773-198105
8	018773-1981B1

(8) DH070EAS



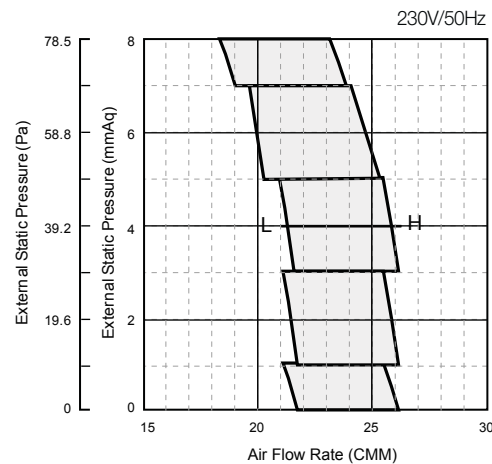
External Static pressure (mmAq)	Option code
0	015771-1C83A0
2	015771-1C83F2
4	015773-1C8185
6	015773-1C83C8
8	015773-1C83CE

(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

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6-1. Specifications

1) Technical specifications

Model Name		Indoor Unit			Outdoor Unit		JH026EAV1	JH035EAV1	JH052EAV1
							UH026EAV1	UH035EAV1	UH052EAV1
System	Mode				-		Heat Pump	Heat Pump	Heat Pump
	Capacity	Capacity (Nominal)	Cooling ^{*1)}	kW	1.0 / 2.6 / 3.5	1.0 / 3.5 / 4.2	1.2 / 5.0 / 6.0		
			(Min / Std / Max)	Btu/h	3,300 / 8,900 / 11,900	3,400 / 11,900 / 14,300	4,100 / 17,100 / 20,500		
			Heating ^{*2)}	kW	1.0 / 3.5 / 4.7	1.0 / 4.0 / 5.0	1.4 / 5.6 / 8.2		
	(Min / Std / Max)	Btu/h	3,200 / 11,900 / 16,000	3,400 / 13,600 / 17,100	4,800 / 19,100 / 28,000				
	Power	Power Input (Nominal)	Cooling ^{*1)}	kW	0.24 / 0.67 / 1.05	0.27 / 1.09 / 1.35	0.39 / 1.56 / 2.03		
			(Min / Std / Max)		0.22 / 0.97 / 1.3	0.24 / 1.11 / 1.35	0.33 / 1.55 / 2.9		
		Current Input (Nominal) <td>Cooling ^{*1)}</td> <td rowspan="2">A</td> <td>1.6 / 3.3 / 5</td> <td>2 / 5.2 / 6.2</td> <td>2 / 7.8 / 9.2</td>	Cooling ^{*1)}	A	1.6 / 3.3 / 5	2 / 5.2 / 6.2	2 / 7.8 / 9.2		
			(Min / Std / Max)		1.4 / 4.7 / 6.3	1.6 / 5.3 / 6.6	1.7 / 7.8 / 13		
	COP <td colspan="2">Nominal Cooling</td> <td>-</td> <td>3.88</td> <td>3.21</td> <td>3.21</td>	Nominal Cooling		-	3.88	3.21	3.21		
		Nominal Heating		-	3.61	3.61	3.61		
Energy Grade		Cooling / Heating	-	A / A	A / A				
Option Code			-	087777-1380B6	087777-1580D8	087777-1980F9			
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)	9.52 (3/8)	12.7 (1/2)			
	Installation Limitation	Max. Length	m	20.0	20.0	50.0			
		Max. Height	m	15.0	15.0	30.0			
Refrigerant	Type		-	R410A	R410A	R410A			
	Control Method		-	EEV	EEV	EEV			
	Factory Charging		kg	0.95	0.95	1.45			
Power Supply			Ø, #, V, Hz	1, 2, 220~240, 50	1, 2, 220~240, 50	1, 2, 220~240, 50			
Indoor Unit	Fan	Type		-	Turbo Fan	Turbo Fan	Turbo Fan		
		Motor	Output	kW	35	35	35		
			Number of Unit	EA	1	1	1		
		Air Flow Rate	High / Mid / Low	CMM	8.1 / 7.0 / 6.0	9.0 / 8.0 / 7.0	11.5 / 9.3 / 8.3		
				CFM	286 / 247 / 212	318 / 283 / 247	406 / 328 / 293		
		External Static Pressure	Min / Std / Max	mmAq	-	-	-		
			Pa	-	-	-			
	Drain	Drain Pipe		Ø, mm	ID 18Hose	ID 18Hose	ID 18Hose		
	Sound	Sound Pressure ^{*3)}	High / Mid / Low	dB(A)	38 / 30.5 / 23	39 / 31.5 / 24	44 / 34.5 / 25		
	External Dimension	Net Weight		kg	15	15	16		
		Shipping Weight		kg	19	19	20		
Net Dimensions (WxHxD)		mm	720 x 620 x 199	720 x 620 x 199	720 x 620 x 199				
Shipping Dimensions (WxHxD)		mm	810 x 710 x 295	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	-	-	-			
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			
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	Single BLDC Rotary	Twin BLDC Rotary			
	Model		-	G4C090LUDEP	G4C090LUDEP	G8T200FUAIEW			
	Oil	Type	-	POE	POE	POE			
Initial Charge		cc	320	320	700				
Fan	Air Flow Rate	Cooling / Heating	CMM	-	-	-			
Sound	Sound Pressure ^{*3)}	Cooling / Heating	CFM	-	-	-			
			dB(A)	47 / 47	47 / 47	49 / 49			
External Dimension	Net Weight		kg	36	32.6	50			
	Shipping Weight		kg	38	35.4	53			
	Net Dimensions (WxHxD)		mm	790 x 548 x 285	790 x 548 x 285	880 x 638 x 310			
	Shipping Dimensions (WxHxD)		mm	938 x 610 x 382	938 x 610 x 382	1,023 x 704 x 413			
Operating Temp. Range	Cooling		°C	-10 ~ 43	-10 ~ 43	-15 ~ 43			
	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 a dead 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

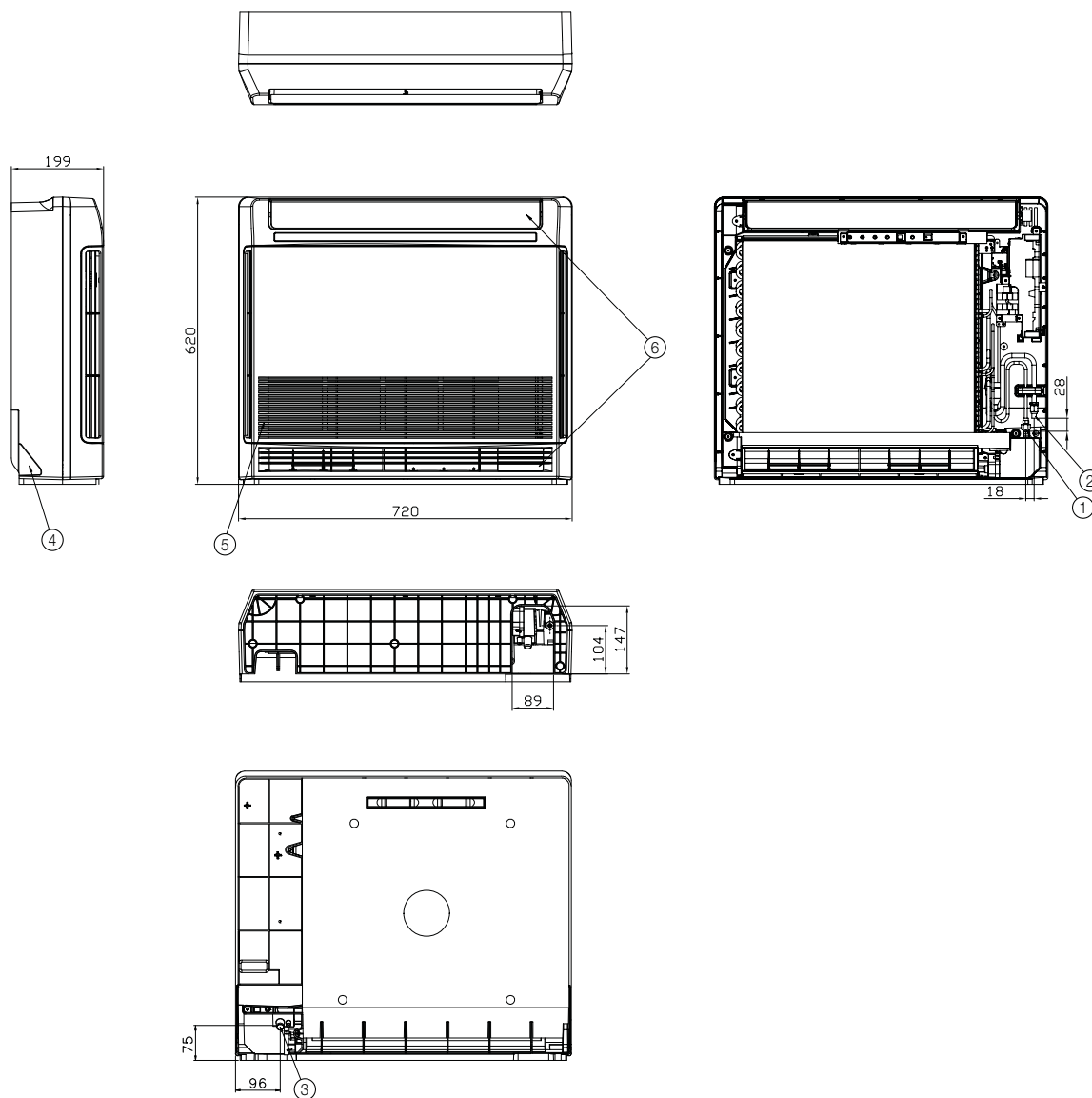
☒ Note

- ◆ 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



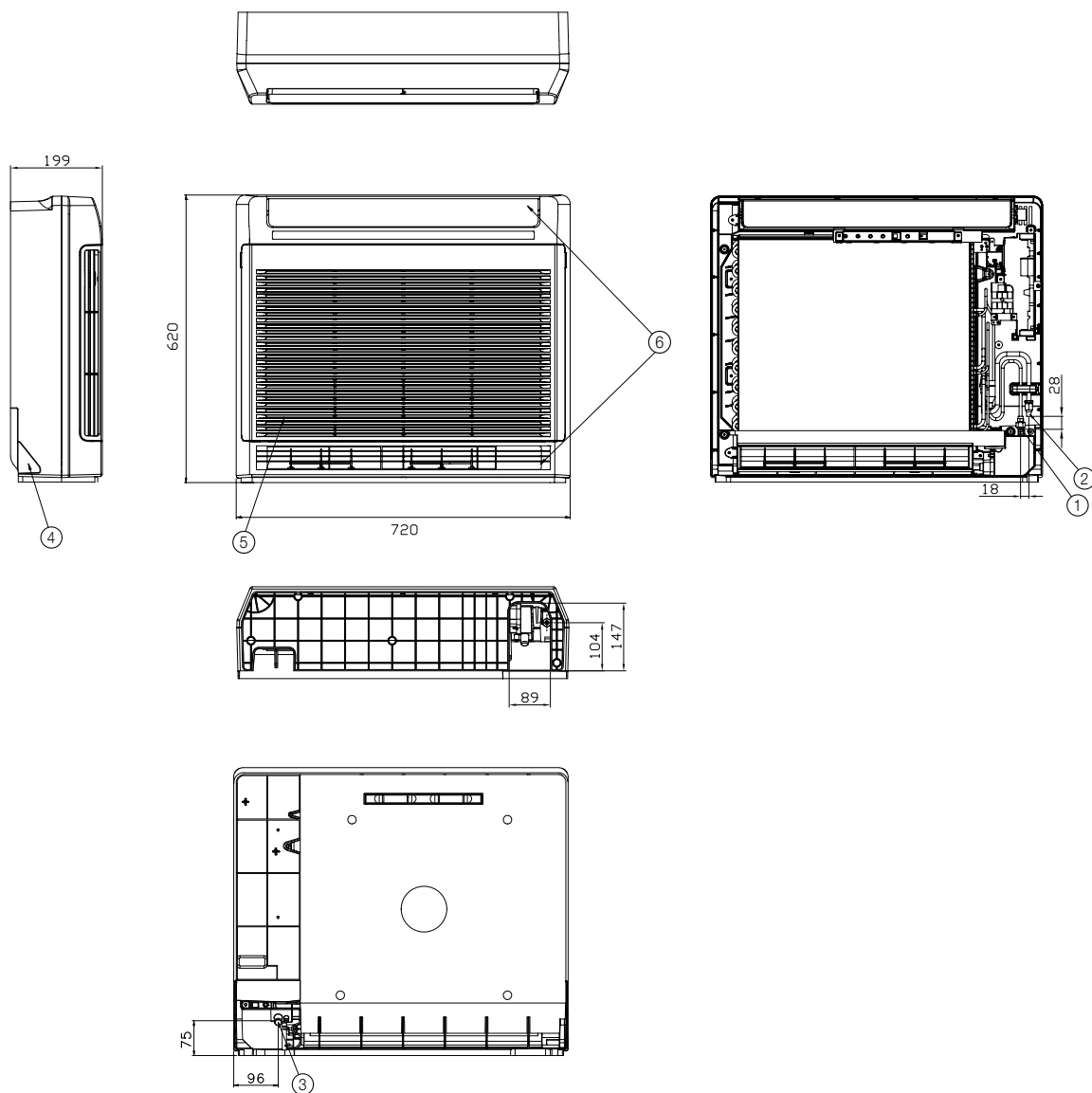
No.	Name	Description	
		2.6kW	3.5kW
①	Liquid pipe connection	Ø6.35mm (1/4") Flare	
②	Gas pipe connection	Ø9.52mm (3/8") Flare	
③	Drain pipe connection	ID18 Hose	
④	Conduit for power supply & communication wiring	-	
⑤	Air inlet grille	-	
⑥	Air outlet louver	-	

6 Console

6-3. Dimensional drawing

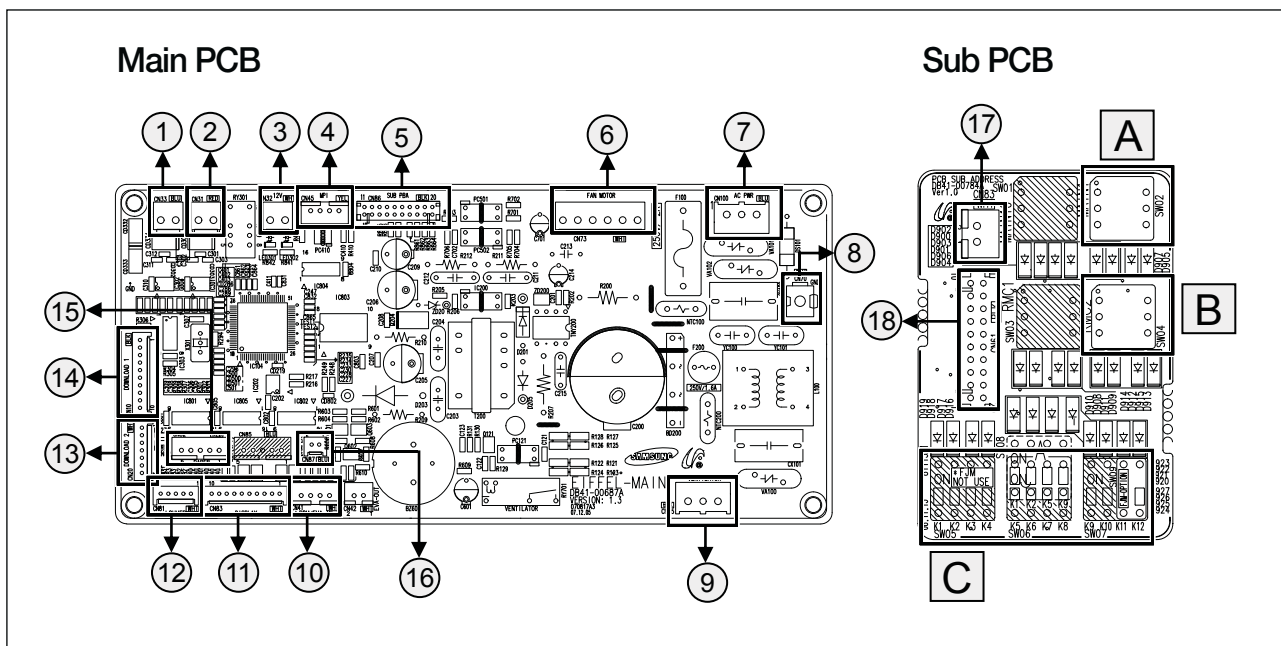
2) JH052EAV1

Unit:mm



No.	Name	Description
		5.2kW
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

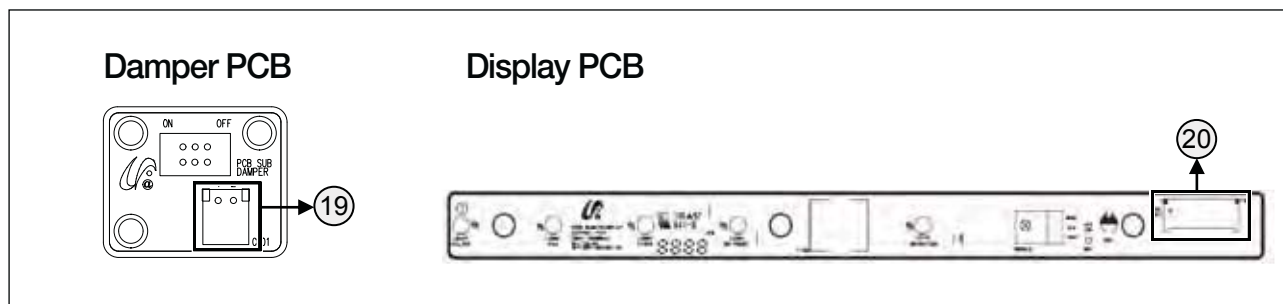
Sub PCB			
No.	CN #	Color	Function
⑰	CN61	Black	Main-Sub PCB connector
⑱	CN83	White	External Contact Control

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

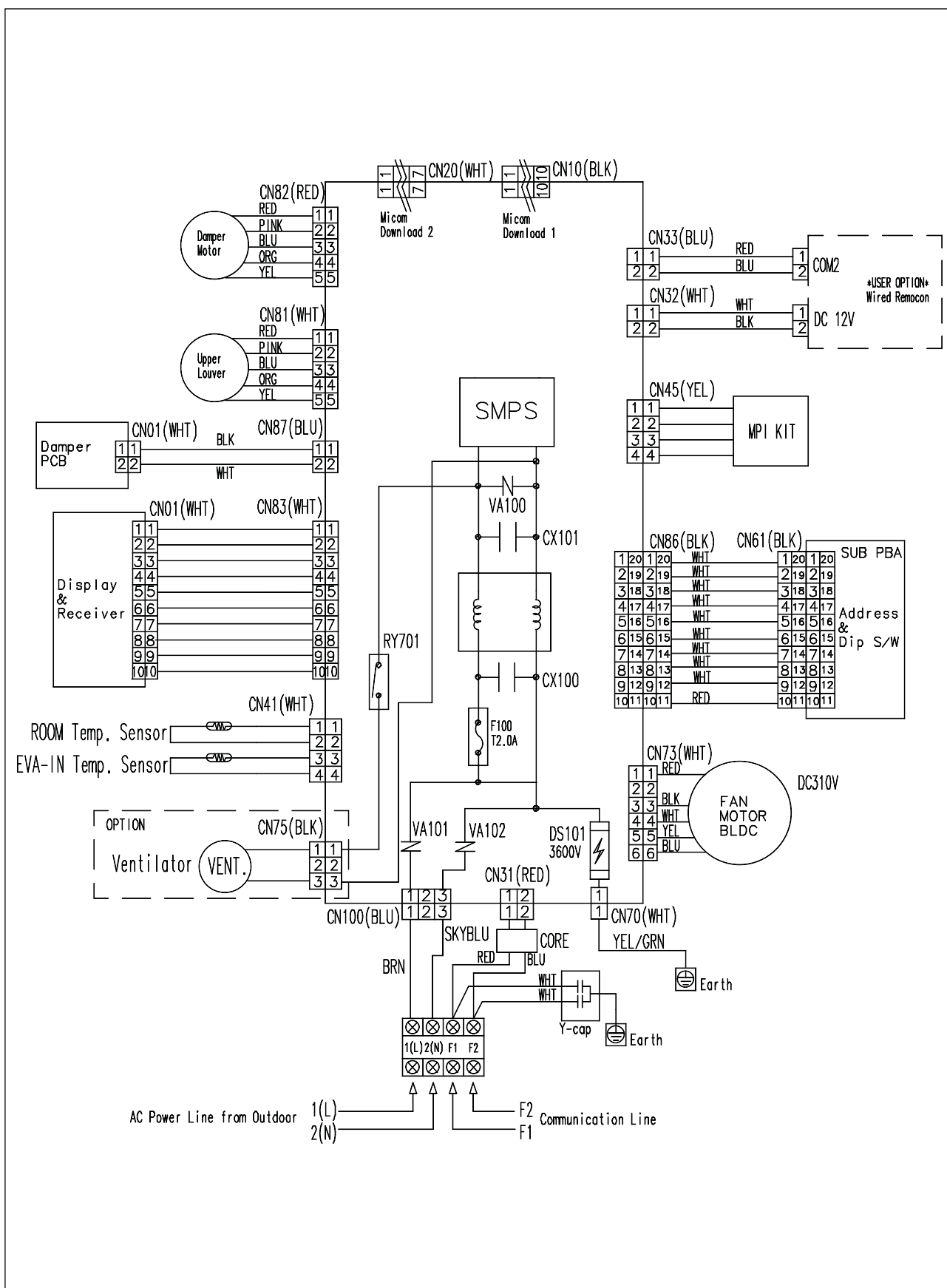
6-4. PCB connector lay-out



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

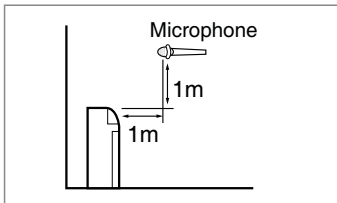
Display PCB			
No.	CN #	Color	Function
②⑩	CN01	White	Panel Display

6-5. Electrical wiring diagram



6-6. Sound pressure level

1) Operation sound level



Unit : dB(A)

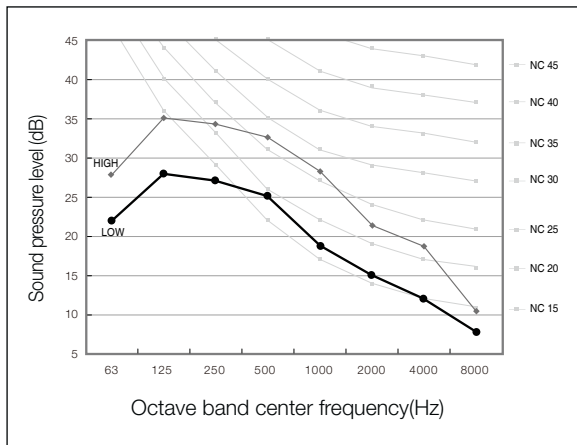
Model	High	Low
JH026EAV1	38	23
JH035EAV1	39	24
JH052EAV1	44	25

☒ Note

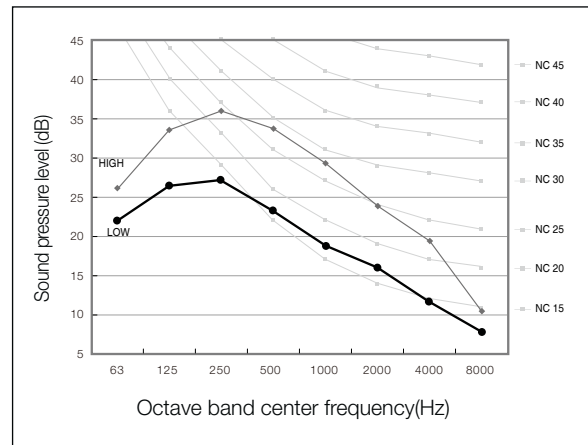
- ◆ These operation values were obtained in a dead room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- ◆ Operation sound level may differ depending on operation and ambient conditions.

2) NC curves

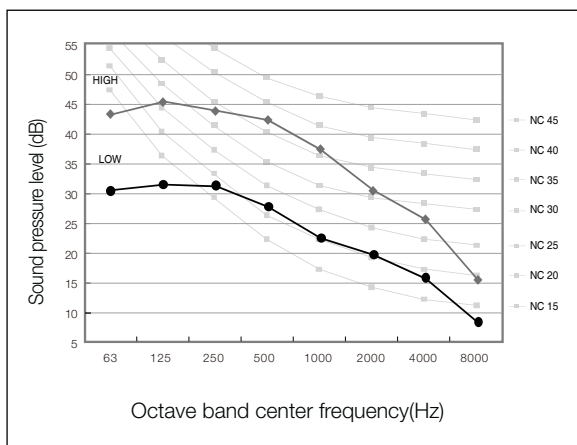
(1) JH026EAV1



(2) JH035EAV1



(3) JH052EAV1

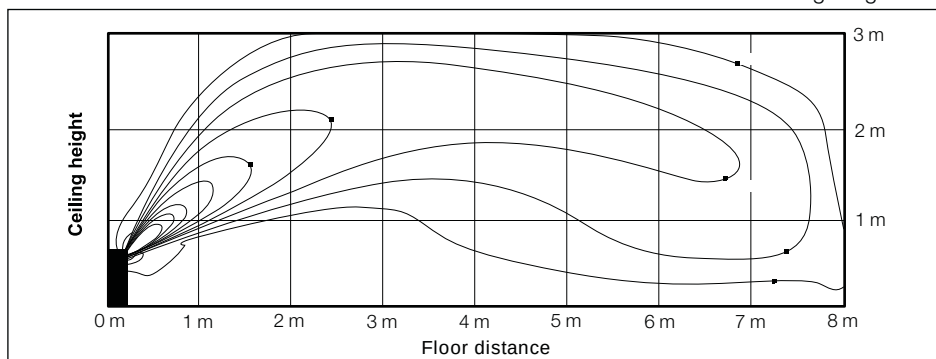


6-7. Temperature and air flow distribution

1) JH035EAV1

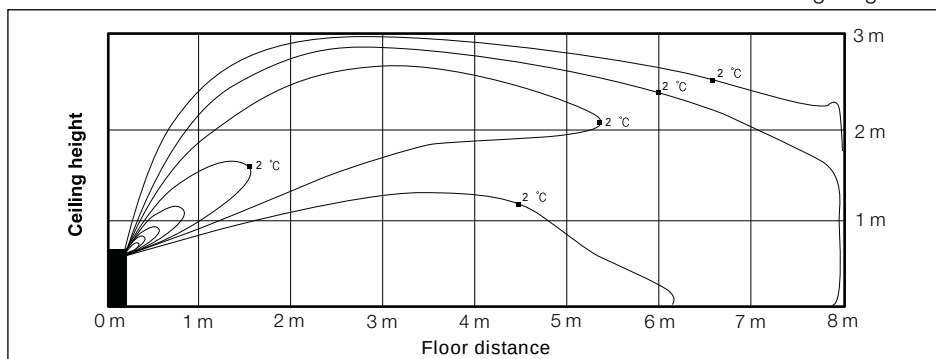
(1) Cooling air velocity distribution

◆ Discharge angle : 36°



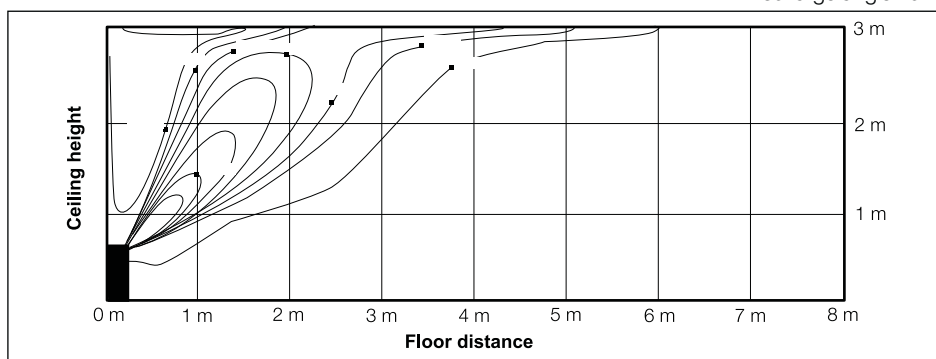
(2) Cooling temperature distribution

◆ Discharge angle : 36°



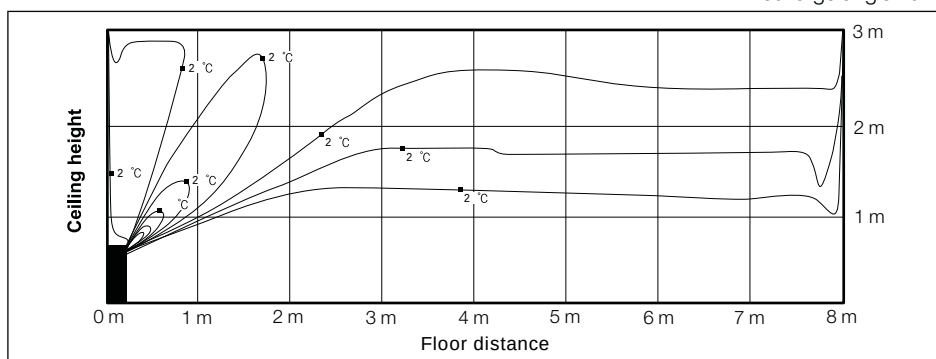
(3) Heating air velocity distribution

◆ Discharge angle : 54°



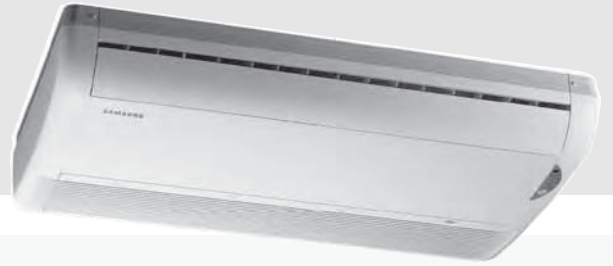
(4) Heating temperature distribution

◆ Discharge angle : 54°





Specifications



7 Ceiling

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7 Ceiling

7-1. Specifications

1) Technical specifications

Model Name		Indoor Unit		FH052EAV1		NS071CDXEA		
		Outdoor Unit		UH052EAV1		RC071DHXEA		
System	Mode			-	Heat Pump	Heat Pump		
	Capacity	Capacity (Nominal)	Cooling ^{*1)} (Min / Std / Max)	kW	1.7 / 5.0 / 5.6	2.2 / 7.1 / 8.0		
			Heating ^{*2)} (Min / Std / Max)	Btu/h	5,800 / 17,100 / 19,100	7,500 / 24,200 / 27,300		
	Power	Power Input (Nominal)	Cooling ^{*1)} (Min / Std / Max)	kW	0.48 / 1.66 / 1.9	0.35 / 2.36 / 4.00		
			Heating ^{*2)} (Min / Std / Max)		0.43 / 1.87 / 3.05	0.35 / 2.66 / 4.00		
		Current Input (Nominal)	Cooling ^{*1)} (Min / Std / Max)	A	2.8 / 7.8 / 9	2.0 / 10.5 / 21.0		
			Heating ^{*2)} (Min / Std / Max)		2.4 / 8.8 / 14.5	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				-	035770-198000	013007-156000-274750-370010	
	Piping Connections	Liquid Pipe		Ø, mm(inch)	6.35 (1/4)	6.35 (1/4)		
		Gas Pipe		Ø, mm(inch)	12.7 (1/2)	15.88 (5/8)		
		Installation Limitation	Max. Length	m	50.0	50.0		
			Max. Height	m	30.0	30.0		
Refrigerant	Type		-	R410A	R410A			
	Control Method		-	EEV	EEV			
	Factory Charging		kg	1.45	1.80			
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	kW	35	-		
				EA	2	2		
		Air Flow Rate	High / Mid / Low	CMM	14.5 / 13.0 / 11.5	14.5		
				CFM	512 / 459 / 406	512.0		
	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 / 35 / 32	41 / 38.5 / 36		
	External Dimension	Net Weight		kg	22	22		
		Shipping Weight		kg	26.0	26.0		
		Net Dimensions (WxHxD)		mm	1000 x 200 x 650	1000 x 200 x 650		
		Shipping Dimensions (WxHxD)		mm	1074 x 294 x 726	1076 x 294 x 726		
	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			
Outdoor Unit	Power Supply		Ø, #, V, Hz	1, 2, 220~240, 50		1, 2, 220~240, 50		
	Compressor	Type		-	Twin BLDC Rotary	Twin BLDC Rotary		
		Model		-	G8T200FUAEW	UG4T200FUA4		
		Oil	Type	-	POE	POE		
	Initial Charge		cc	700	650			
	Fan	Air Flow Rate	Cooling / Heating	CMM	-	50.0 / 48.0		
				CFM	-	1,766 / 1,695		
	Sound	Sound Pressure ^{*3)}	Cooling / Heating	dB(A)	49 / 49	49 / 51		
	External Dimension	Net Weight		kg	50	55		
		Shipping Weight		kg	53	59		
		Net Dimensions (WxHxD)		mm	880 x 638 x 310	880 x 798 x 310		
		Shipping Dimensions (WxHxD)		mm	1,023 x 704 x 413	1,023 x 889 x 416		
	Operating Temp. Range	Cooling		°C	-15 ~ 43	-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 a dead room. Thus actual noise level may be different depending on the installation conditions.

7-2. Capacity tables

1) FH052EAV1

(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	4.49	3.34	1.45	4.67	3.43	1.56	4.97	3.63	1.49	4.43	3.07	1.66	3.97	3.11	2.20
16	22	4.81	3.34	1.51	4.89	3.38	1.56	5.21	3.57	1.49	4.67	3.03	1.66	4.18	3.08	2.23
18	25	5.01	3.51	1.51	5.12	3.55	1.60	5.46	3.76	1.49	4.88	3.18	1.66	4.38	3.24	2.23
19	27	5.12	3.69	1.51	5.22	3.74	1.60	5.59	3.99	1.49	5.00	3.38	1.66	4.49	3.44	2.23
22	30	5.43	3.54	1.55	5.56	3.61	1.60	5.95	3.86	1.51	5.33	3.27	1.69	4.80	3.33	2.23
24	32	5.64	3.45	1.55	5.77	3.51	1.62	6.19	3.76	1.51	5.57	3.20	1.69	5.01	3.25	2.27

(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		3.47	1.98	4.53	2.15	5.11	2.11	5.49	2.43	6.16	1.82	6.56	1.96
18		3.72	2.01	4.41	2.19	5.01	2.21	5.42	2.46	6.09	1.85	6.47	1.96
20		3.87	2.04	4.31	2.21	4.94	2.23	5.33	2.46	6.00	1.87	6.40	1.98
21		3.95	2.04	4.28	2.21	4.88	2.23	5.29	2.50	5.96	1.87	6.34	2.00
22		4.19	2.04	4.22	2.21	4.84	2.26	5.24	2.50	5.91	1.87	6.31	2.00
24		4.36	2.06	4.13	2.24	4.74	2.29	5.16	2.53	5.84	1.89	6.22	2.03

2) 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

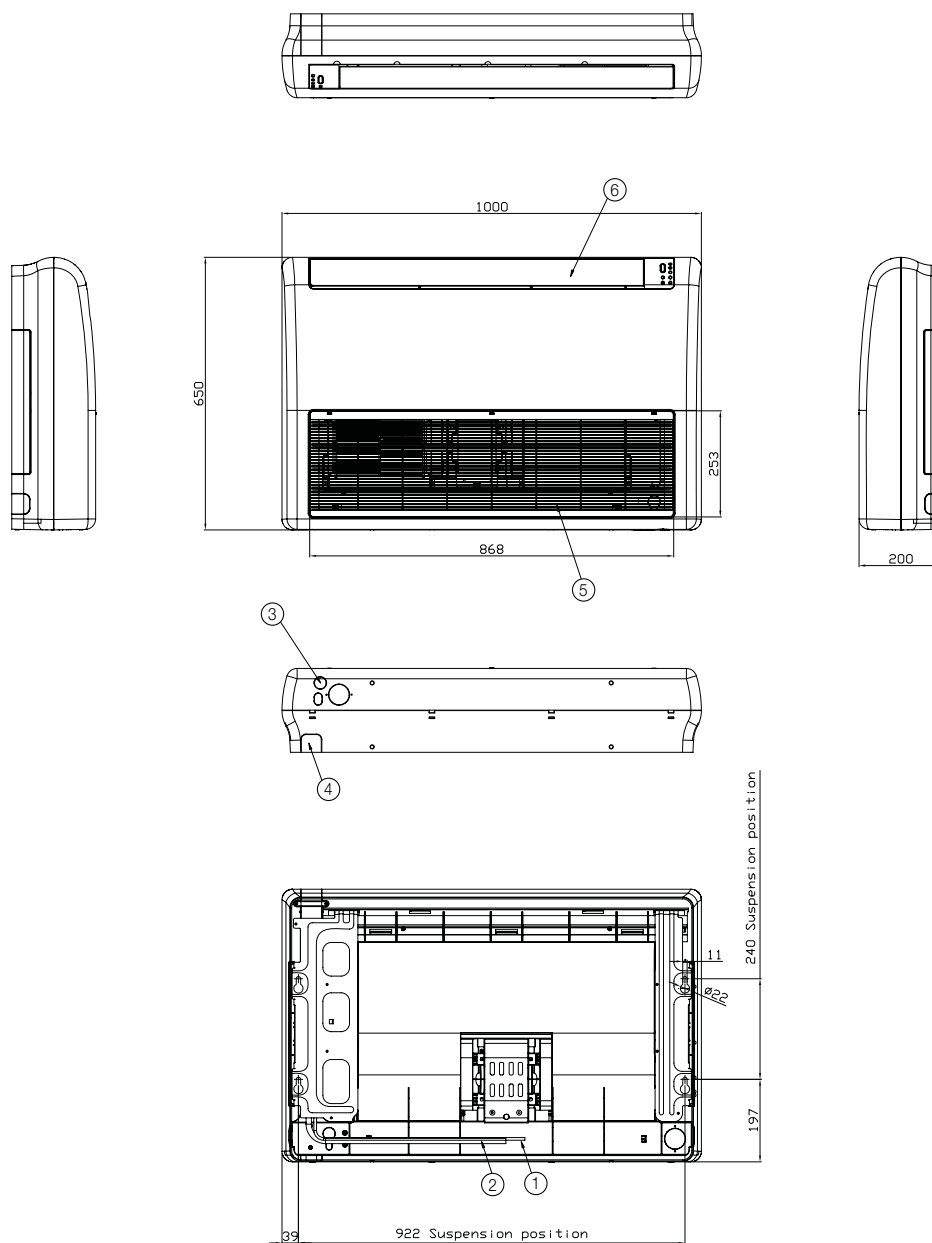
- ◆ Ratings shown are net capacities.
- ◆ Capacities are based on following conditions;
 - Equivalent refrigerant piping length : 5m / Level difference : 0m.

7 Ceiling

7-3. Dimensional drawing

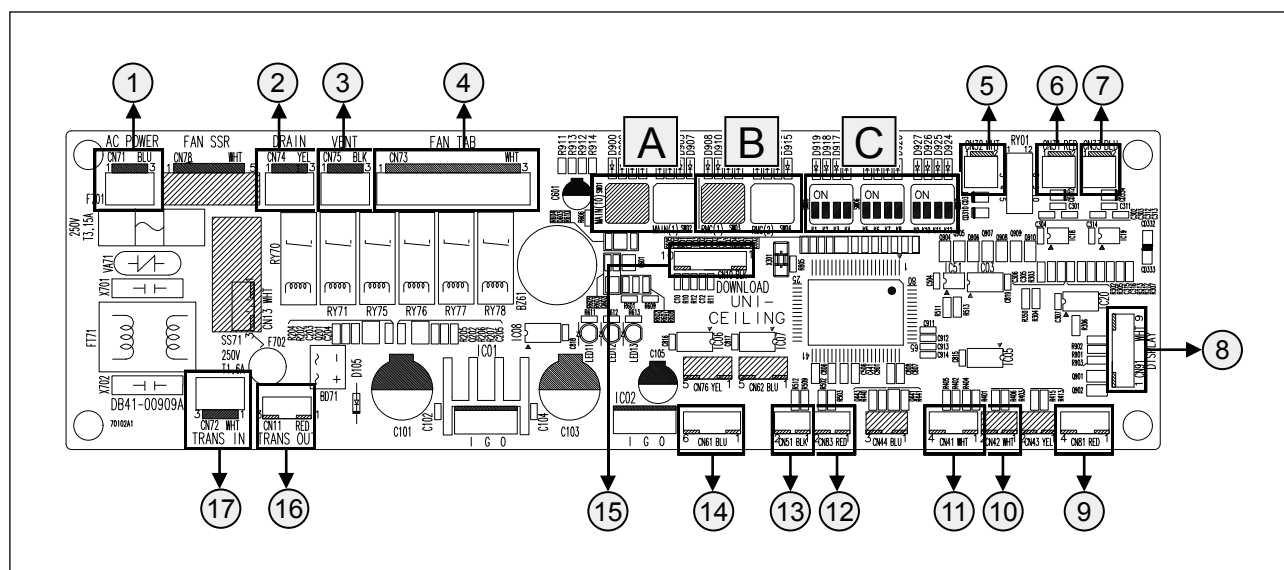
1) FH052EAV1, NS071CDXEA

Unit:mm

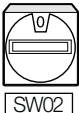


No.	Name	Description	
		5.2kW	7.1kW
①	Liquid pipe connection	Ø6.35mm (1/4") Flare	
②	Gas pipe connection	Ø12.70mm (1/2") Flare	Ø15.88mm (5/8") Flare
③	Drain pipe connection	ID18 Hose	
④	Conduit for power supply & communication wiring	-	
⑤	Air inlet grille	-	
⑥	Air outlet louver	-	

7-4. PCB connector lay-out



No.	CN #	Color	Function
①	CN71	Blue	AC 230V Input
②	CN74	Yellow	Drain Pump
③	CN75	Black	Ventilator
④	CN73	White	Fan Motor
⑤	CN32	White	DC12V for Wired Remote Controller
⑥	CN31	Red	Communication with Outdoor Units (COM1)
⑦	CN33	Blue	Communication with Wired Remote Controller (COM2)
⑧	CN91	White	Display
⑨	CN81	Red	Error Check, Indoor unit Operation
⑩	CN42	White	Eva-Out Sensor
⑪	CN41	White	Room Sensor, Eva-In Sensor
⑫	CN83	Red	External Contact Control
⑬	CN51	Black	Float Switch
⑭	CN61	Blue	Louver
⑮	CN10	Black	MICOM Download
⑯	CN11	Red	Trans-Out (AC 17V)
⑰	CN72	White	Trans-In (AC 230V)

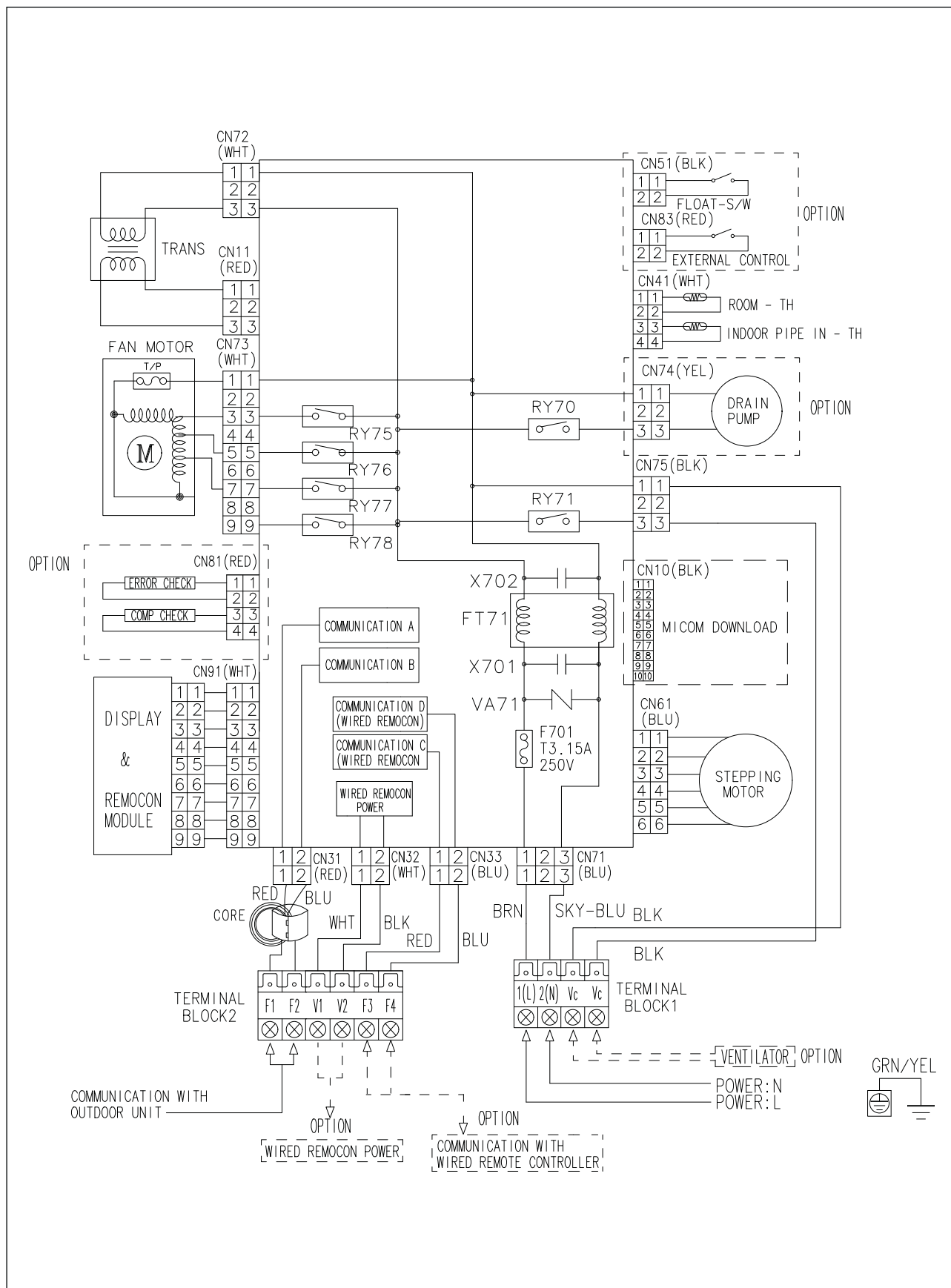
No.	S/W	Function
A	 SW02	Main Address Setting (0~F)
B	 SW04	Group Address (RMC) For Centralized Controller (0~F)

No.	S/W	Function	On	Off
C	K1	External Room Sensor	Not Use	Use
	K2	Centralized Controller	Not Use	Use
	K3	RPM Up	Normal	Up
	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	-	-	-

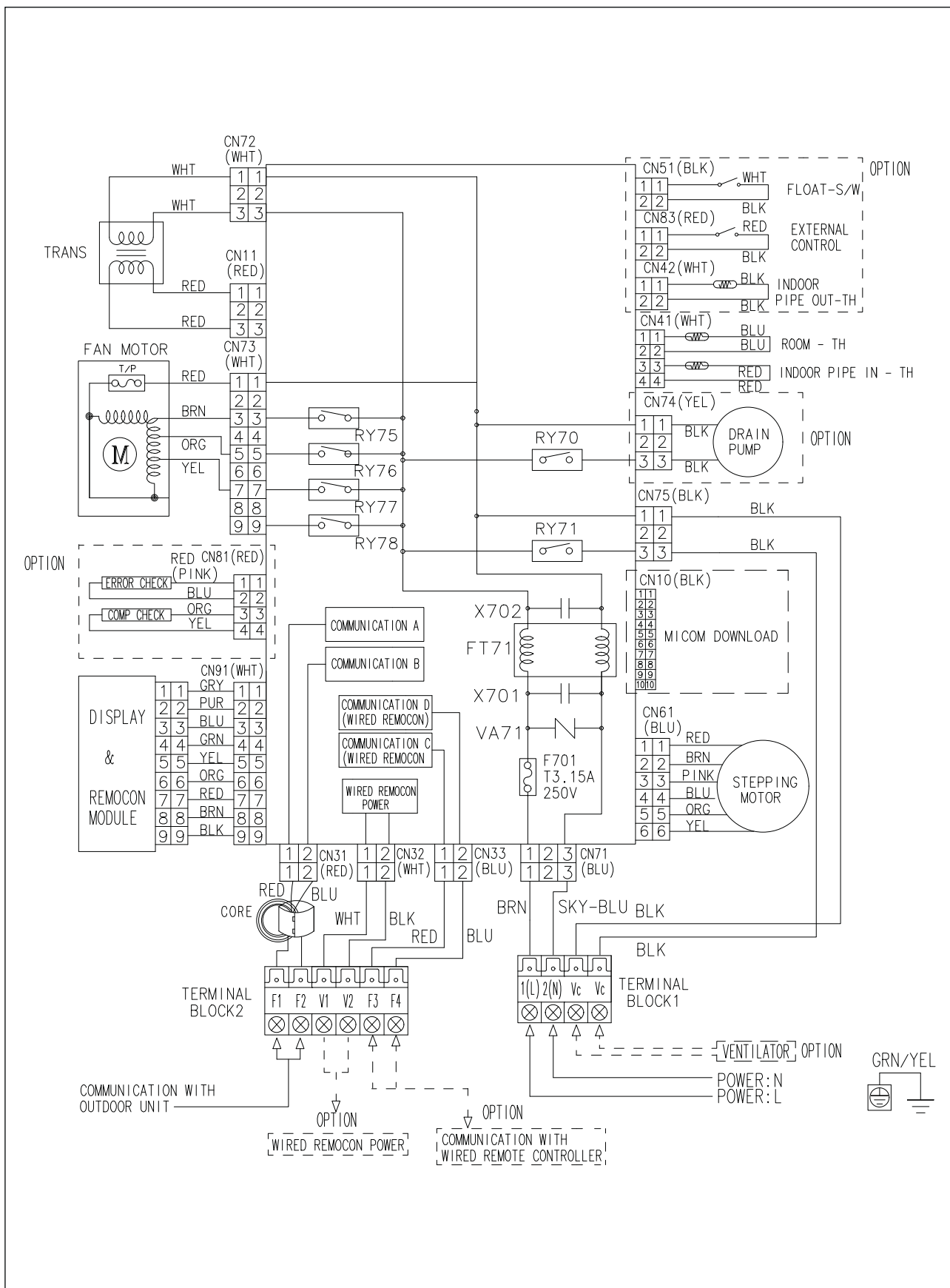
7 Ceiling

7-5. Electrical wiring diagram

1) FH052EAV*



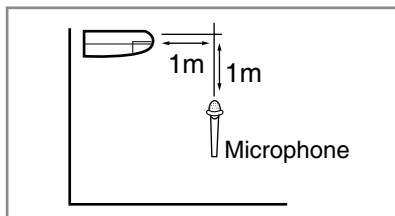
1) NS071CDXE*



7 Ceiling

7-6. Sound pressure level

1) Operation sound level



Unit : dB(A)

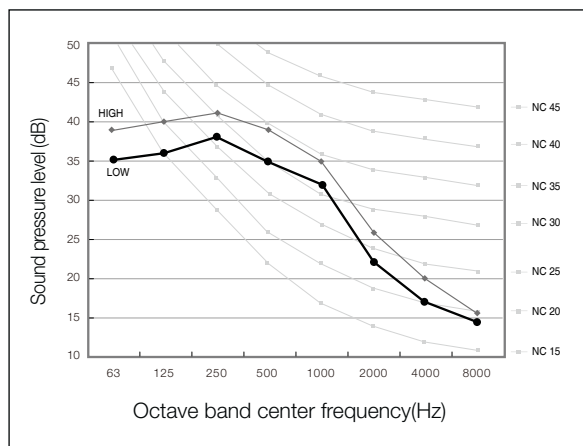
Model	High	Low
FH052EAV1	38	32
NS071CDXEA	41	36

☒ Note

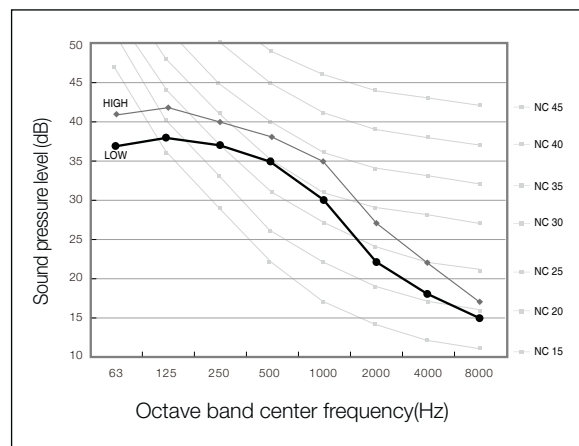
- ◆ These operation values were obtained in a dead room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- ◆ Operation sound level may differ depending on operation and ambient conditions.

2) NC curves

(1) FH052EAV1



(2) NS071CDXEA

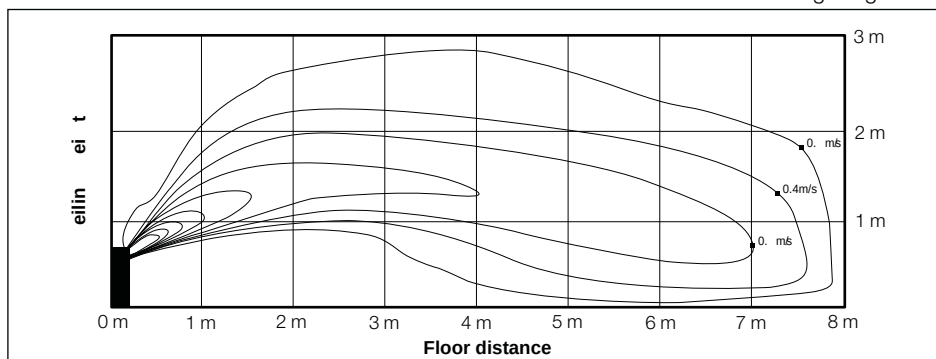


7-7. Temperature and air flow distribution

1) NS071CDXEA (Floor installation)

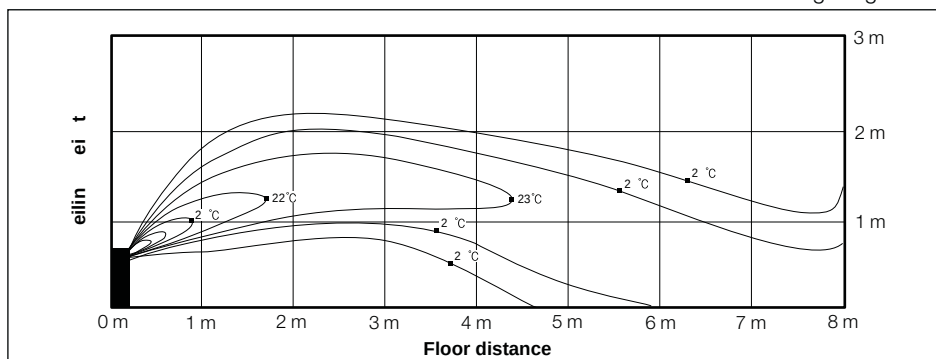
(1) Cooling air velocity distribution

◆ Discharge angle : 36°



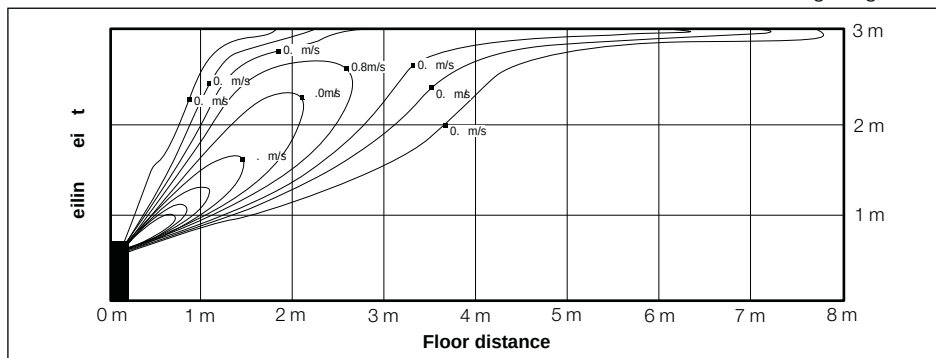
(2) Cooling temperature distribution

◆ Discharge angle : 36°



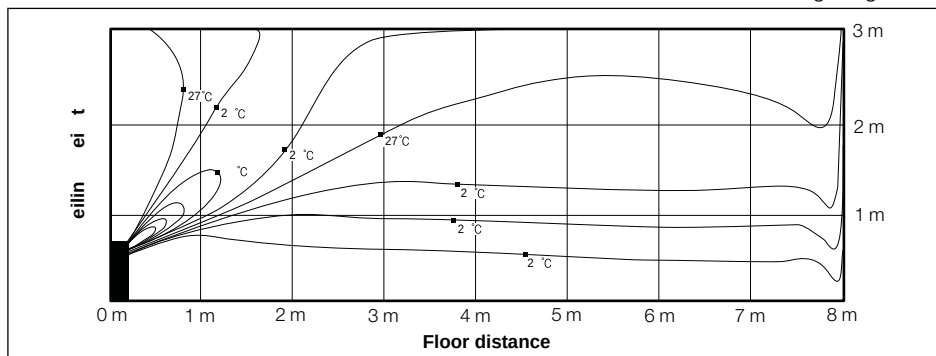
(3) Heating air velocity distribution

◆ Discharge angle : 54°



(4) Heating temperature distribution

◆ Discharge angle : 54°



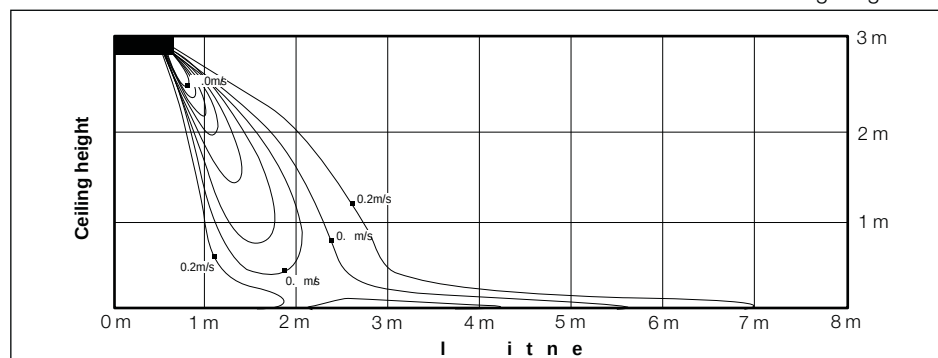
7 Ceiling

7-7. Temperature and air flow distribution

2) NS071CDXEA (Ceiling installation)

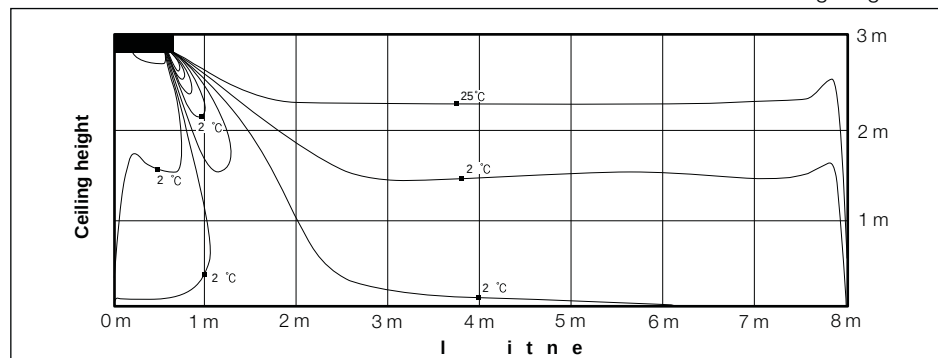
(1) Cooling air velocity distribution

◆ Discharge angle : 36°



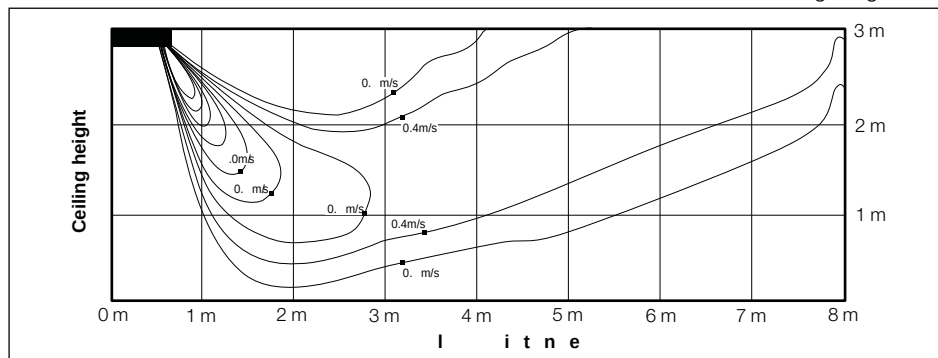
(2) Cooling temperature distribution

◆ Discharge angle : 36°



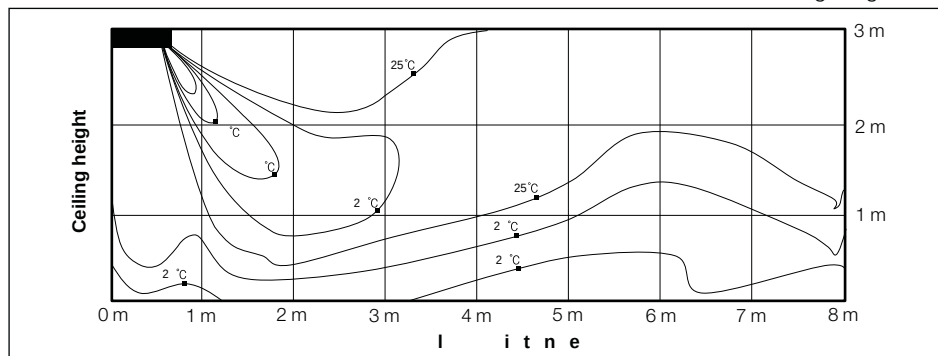
(3) Heating air velocity distribution

◆ Discharge angle : 54°



(4) Heating temperature distribution

◆ Discharge angle : 54°





8 Neo forte

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8-1. Specifications

1) Technical specifications

Model Name		Indoor Unit		NS026NHXEA		NS035NHXEA		NS052NHXEA		NS071NDXEA				
		Outdoor Unit		UH026EAV1		UH035EAV1		UH052EAV1		RC071DHXEA				
System	Mode			-		Heat Pump		Heat Pump		Heat Pump				
	Capacity	Capacity (Nominal)	Cooling ⁽¹⁾	kW	1.0 / 2.6 / 3.5		1.0 / 3.5 / 4.2		1.7 / 5.0 / 6.0		2.2 / 7.1 / 8.0			
			(Min / Std / Max)		Btu/h		3,400 / 8,900 / 11,900		3,300 / 11,900 / 14,300		5,800 / 17,100 / 20,500		7,500 / 24,200 / 27,300	
			Heating ⁽²⁾		kW		1.0 / 3.5 / 4.6		1.0 / 4.0 / 5.2		1.5 / 6.0 / 8.0		1.9 / 8.0 / 9.0	
			(Min / Std / Max)		Btu/h		3,300 / 11,900 / 15,700		3,300 / 13,600 / 17,700		5,100 / 20,500 / 27,300		6,500 / 27,300 / 30,700	
	Power	Power Input (Nominal)	Cooling ⁽¹⁾	kW	0.26 / 0.65 / 1.1		0.26 / 1.05 / 1.4		0.42 / 1.40 / 1.95		0.35 / 2.36 / 4.00			
			(Min / Std / Max)		0.24 / 0.97 / 1.4		0.21 / 1.17 / 1.7		0.36 / 1.76 / 2.7		0.35 / 2.85 / 4.00			
		Current Input (Nominal)	Cooling ⁽¹⁾	A	1.6 / 3.4 / 5.1		1.7 / 5.3 / 6.4		2.5 / 7 / 8.5		2.0 / 10.5 / 21.0			
			(Min / Std / Max)		1.5 / 4.3 / 6.6		1.3 / 5.1 / 7.9		2.1 / 7.5 / 12		2.0 / 13.0 / 21.0			
		Circuit Breaker (MCCB+ELB / ELCB)		A		15		15		20		25		
	COP	Nominal Cooling		-		4.00		3.33		3.57		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			-		027770-13022C		027770-15024E		026770-19025C		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)		12.7 (1/2)		15.88 (5/8)		
		Installation Limitation		Max. Length		m		20.0		50.0		50.0		
		Max. Height		m		15.0		30.0		30.0				
Field Wiring	Power Cable	Indoor Unit	mm ²		1.25		1.25		1.25		1.25			
		Outdoor Unit	mm ²		1.5 (Below 10m)		1.5 (Below 10m)		2.0 (Below 10m)		2.5 (Below 10m)			
Communication Cable			mm ²		0.75~1.25		0.75~1.25		0.75~1.25		0.75~1.25			
Refrigerant	Type		-		R410A		R410A		R410A		R410A			
	Control Method		-		EEV		EEV		EEV		EEV			
	Factory Charging		kg		0.95		0.95		1.45		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		-		Crossflow Fan		Crossflow Fan		Crossflow Fan		Crossflow Fan			
	Motor	Output	kW		16		16		40		40			
			EA		1		1		1		1			
	Air Flow Rate	High / Mid / Low	CMM		7.0 / - / -		8 / - / -		13 / - / -		15 / - / -			
			CFM		247 / - / -		283 / - / -		459 / - / -		530 / - / -			
	External Static Pressure		Min / Std / Max		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 / 27.5 / 23		36 / 29.5 / 23		40 / 35 / 30		41 / 35.5 / 30		
External Dimension	Net Weight		kg		9		9		13		13			
	Shipping Weight		kg		11		11		16		16			
	Net Dimensions (WxHxD)		mm		825 x 285 x 189		825 x 285 x 189		1065 x 298 x 218		1065 x 298 x 218			
	Shipping Dimensions (WxHxD)		mm		900 x 349 x 252		900 x 349 x 252		1137 x 377 x 299		1137 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		-		G4C090LUDER		G4C090LUDER		G8T200FUAEW		UG4T200FUAEE4			
	Oil	Type	-		POE		POE		POE		POE			
Fan	Air Flow Rate	Initial Charge	cc		320		320		700		650			
		Cooling / Heating	CMM		-		-		-		50.0 / 48.0			
Sound	Sound Pressure ⁽³⁾	Cooling / Heating	CFM		-		-		-		1,766 / 1,695			
			dB(A)		47 / 47		47 / 47		49 / 49		49 / 51			
External Dimension	Net Weight		kg		36		36		50		55			
	Shipping Weight		kg		38		38		53		59			
	Net Dimensions (WxHxD)		mm		790 x 548 x 285		790 x 548 x 285		880 x 638 x 310		880 x 798 x 310			
	Shipping Dimensions (WxHxD)		mm		938 x 610 x 382		938 x 610 x 382		1,023 x 704 x 413		1,023 x 889 x 416			
Operating Temp. Range	Cooling		°C		-10 ~ 43		-10 ~ 43		-15 ~ 43		-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 a dead room. Thus actual noise level may be different depending on the installation conditions.

8-2. Capacity tables

1) NS026NHXEA

(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	1.83	1.53	0.39	2.33	1.94	0.44	2.42	2.01	0.60	2.74	2.28	1.20
16	22	1.88	1.57	0.40	2.39	1.99	0.46	2.48	2.06	0.62	2.81	2.34	1.23
18	25	1.93	1.60	0.41	2.44	2.04	0.47	2.54	2.11	0.63	2.88	2.40	1.26
19	27	1.97	1.64	0.42	2.50	2.09	0.48	2.60	2.17	0.65	2.95	2.46	1.29
22	30	2.02	1.68	0.42	2.56	2.14	0.49	2.66	2.22	0.67	3.02	2.52	1.32
24	32	2.07	1.72	0.44	2.63	2.19	0.50	2.73	2.27	0.68	3.09	2.58	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		1.69	1.01	2.37	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		1.64	0.98	2.30	1.10	3.43	0.95	4.12	1.06
24		1.63	0.97	2.27	1.09	3.40	0.94	4.07	1.05

2) NS035NHXEA

(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	2.75	2.3	0.71	2.99	2.49	0.98	3.25	2.71	0.97	2.86	2.39	1.24
16	22	2.82	2.35	0.73	3.06	2.55	1.00	3.33	2.78	1.00	2.93	2.45	1.27
18	25	2.89	2.41	0.75	3.13	2.61	1.03	3.42	2.85	1.02	3.01	2.51	1.30
19	27	2.96	2.47	0.77	3.21	2.68	1.05	3.50	2.92	1.05	3.08	2.57	1.34
22	30	3.03	2.53	0.79	3.29	2.74	1.08	3.58	2.99	1.07	3.15	2.63	1.37
24	32	3.11	2.59	0.81	3.37	2.81	1.10	3.67	3.06	1.10	3.23	2.69	1.40

(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	1.17	4.08	1.19	5.18	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	1.36
22		2.02	0.95	2.81	1.12	3.92	1.15	4.97	1.35
24		2.00	0.95	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) NS052NHXEA

(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	6.32	5.26	1.57	6.63	5.53	1.67	4.65	3.87	1.30	3.62	3.02	2.40
16	22	6.47	5.39	1.61	6.80	5.66	1.71	4.76	3.97	1.33	3.71	3.09	2.46
18	25	6.63	5.53	1.65	6.96	5.80	1.76	4.88	4.07	1.37	3.80	3.17	2.52
19	27	6.80	5.66	1.69	7.13	5.95	1.80	5.00	4.17	1.40	3.90	3.25	2.58
22	30	6.96	5.80	1.73	7.31	6.09	1.84	5.12	4.27	1.43	3.99	3.32	2.64
24	32	7.13	5.94	1.77	7.48	6.23	1.89	5.24	4.37	1.47	4.09	3.40	2.70

(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		2.42	1.27	4.45	2.54	6.12	1.80	7.45	2.16
18		2.40	1.25	4.41	2.52	6.06	1.78	7.38	2.14
20		2.37	1.24	4.37	2.49	6.00	1.76	7.30	2.11
21		2.35	1.23	4.32	2.47	5.94	1.74	7.23	2.09
22		2.33	1.22	4.28	2.44	5.88	1.72	7.16	2.07
24		2.3	1.21	4.24	2.42	5.82	1.71	7.09	2.05

4) 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

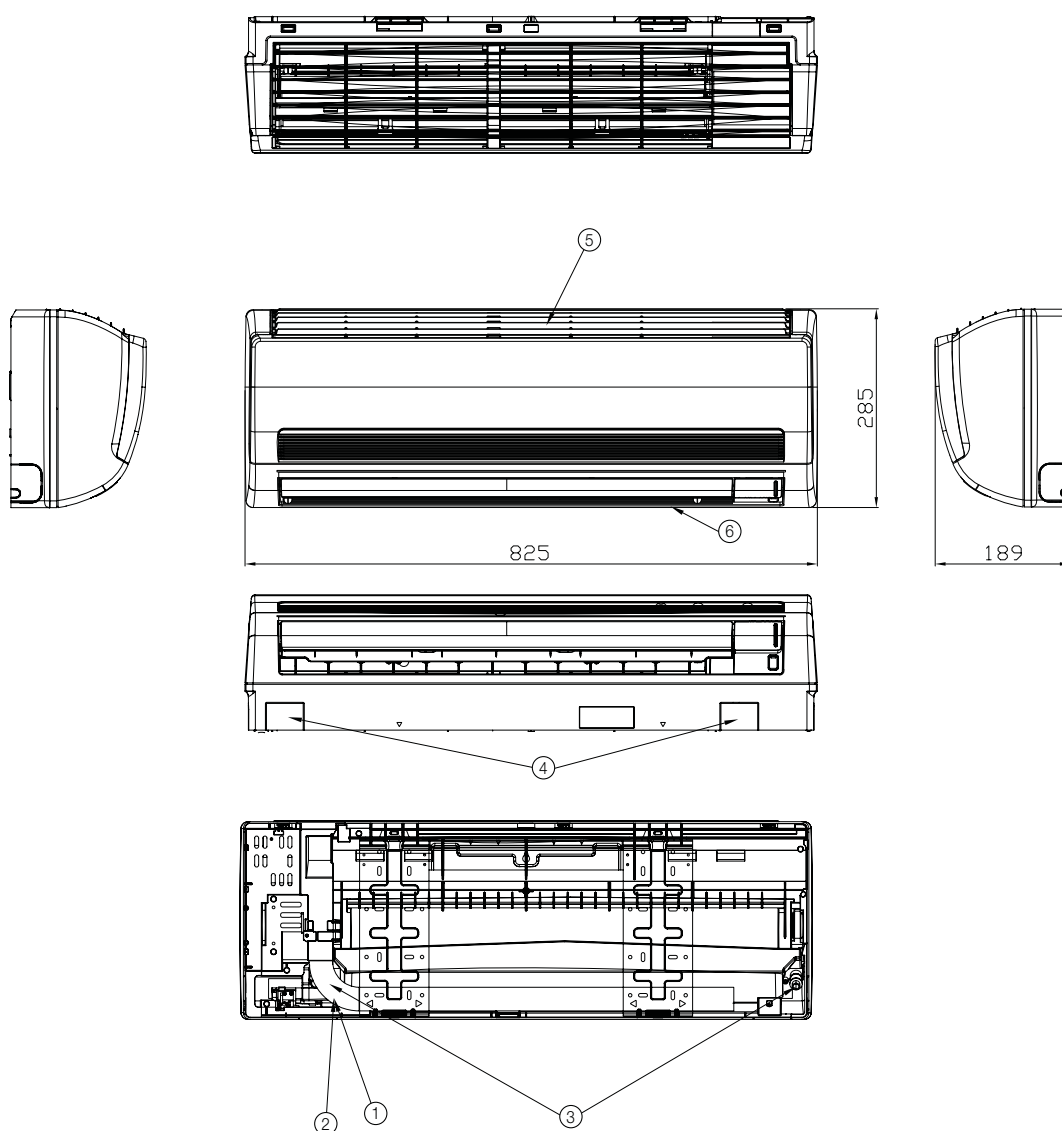
✓ Note

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

8-3. Dimensional drawing

1) NS026/035NHXE*

Unit:mm

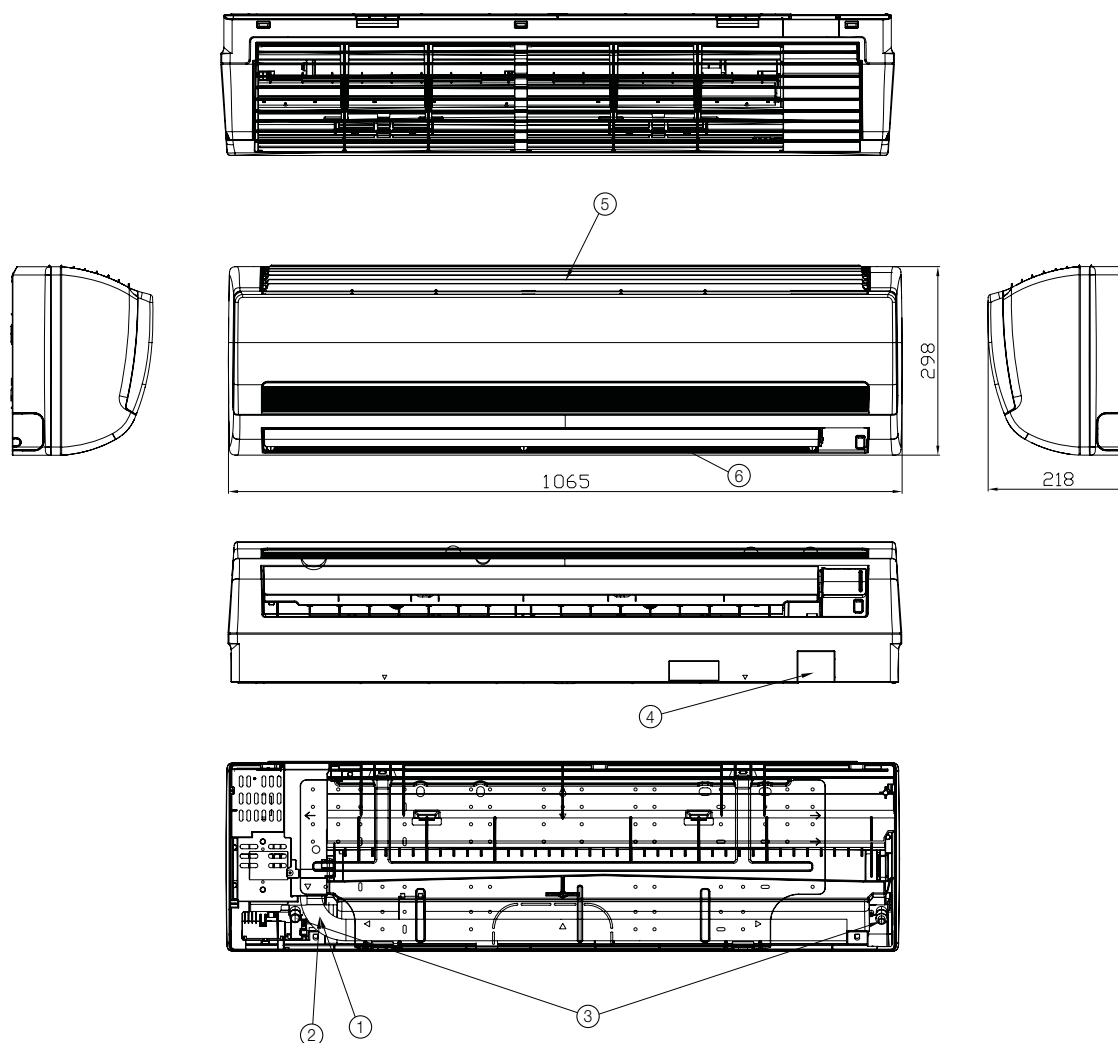


No.	Name	Description	
		2.6kW	3.5kW
①	Liquid pipe connection	Ø6.35mm (1/4") Flare	
②	Gas pipe connection	Ø9.52mm (3/8") Flare	
③	Drain pipe connection	ID18 Hose	
④	Conduit for power supply & communication wiring	-	
⑤	Air inlet grille	-	
⑥	Air outlet louver	-	

8-3. Dimensional drawing

2) NS052NHXE*, NS071NDXE*

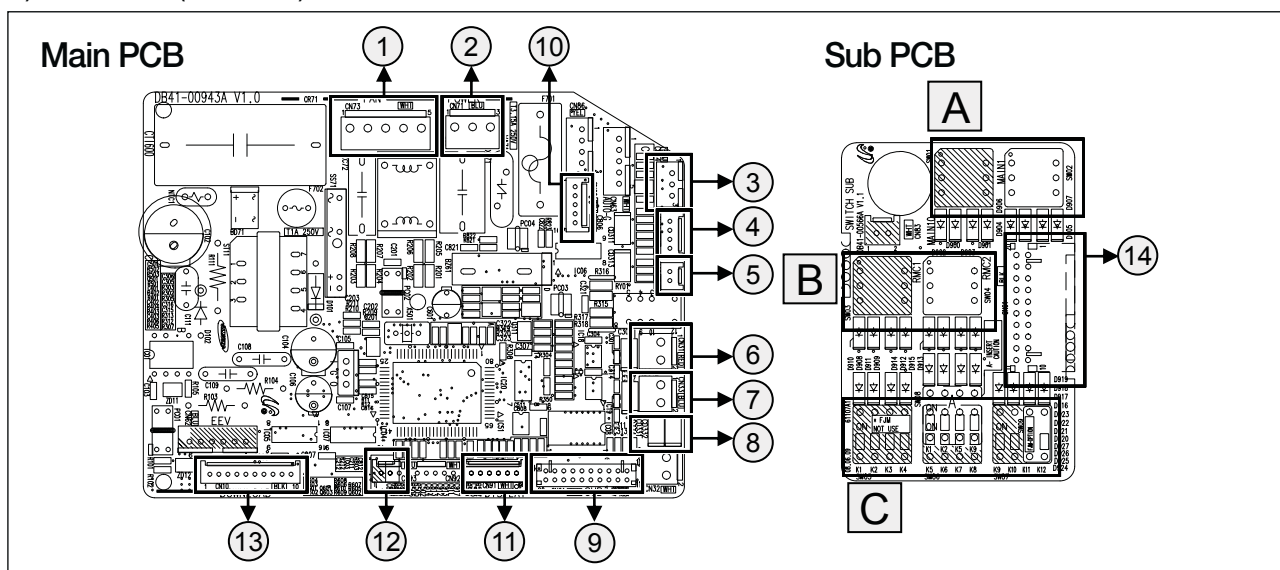
Unit:mm



No.	Name	Description	
		5.2kW	7.0kW
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

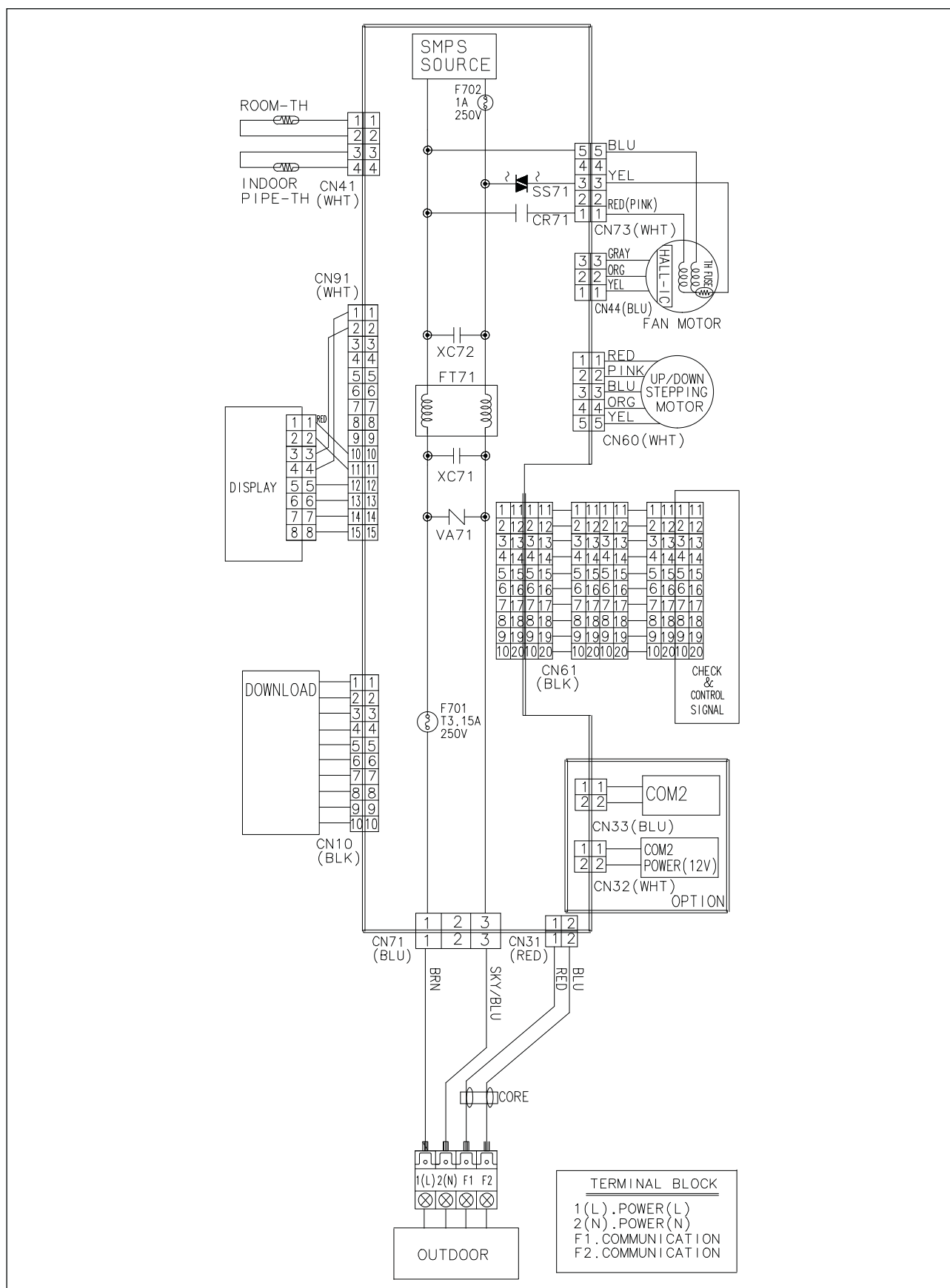
No.	CN #	Color	Function
⑭	CN61	Black	Main-Sub PCB Connector

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	-	-	-
	K7	-	-	-
	K8	-	-	-
	K9	-	-	-
	K10	-	-	-
	K11	External Contact Control	Not Use	Use
	K12	External Control Output	Thermo On	Operation On

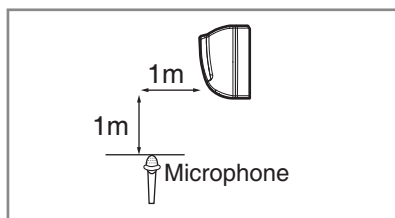
8-5. Electrical wiring diagram

1) Neo Forte



8-6. Sound pressure level

1) Operation sound level



Unit : dB(A)

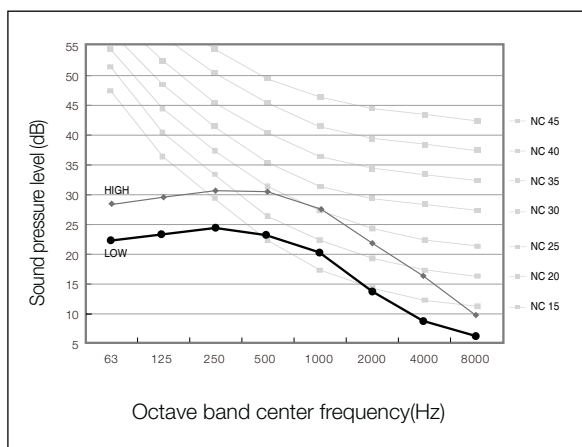
Model	High	Low
NS026NHXEA	32	23
NS035NHXEA	36	23
NS052NHXEA	40	30
NS071NDXEA	41	30

☒ Note

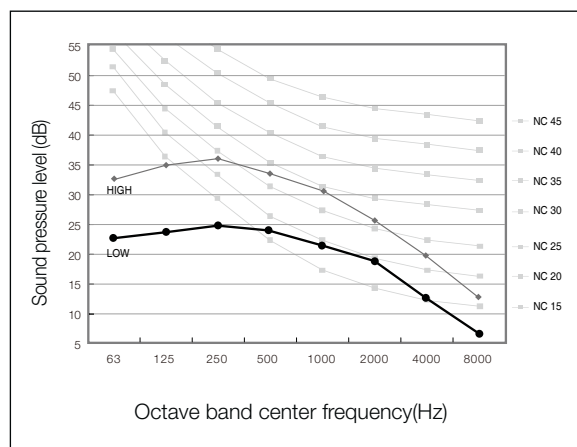
- ◆ These operation values were obtained in a dead room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- ◆ Operation sound level may differ depending on operation and ambient conditions.

2) NC curves

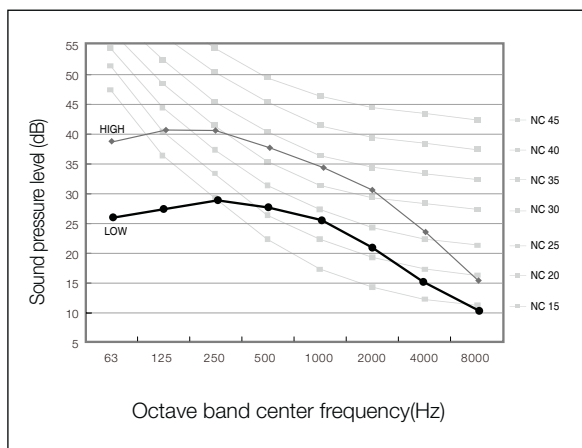
(1) NS026NHXEA



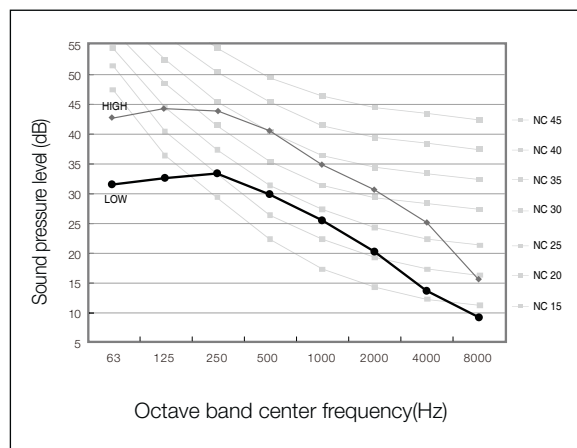
(2) NS035NHXEA



(3) NS052NHXEA



(4) NS071NDXEA

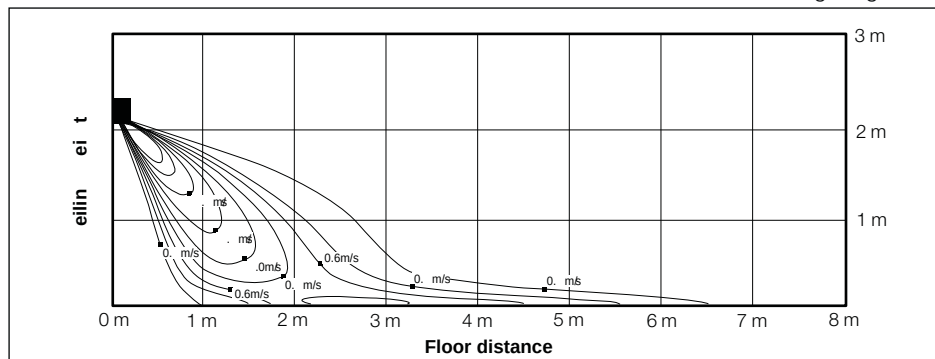


8-7. Temperature and air flow distribution

1) NS035NHXE*

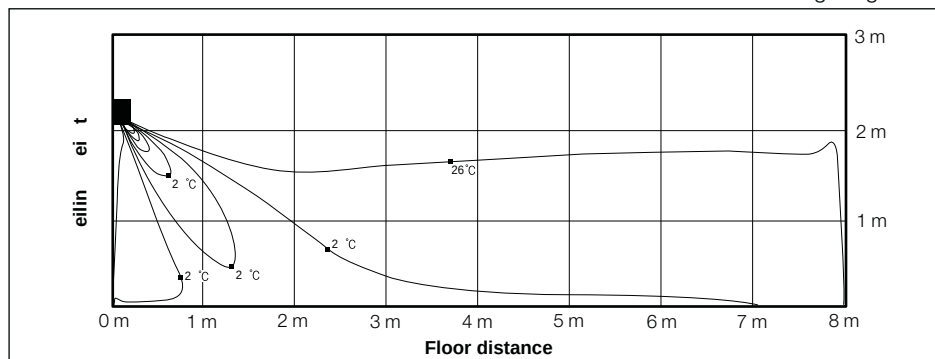
(1) Cooling air velocity distribution

◆ Discharge angle : 60°



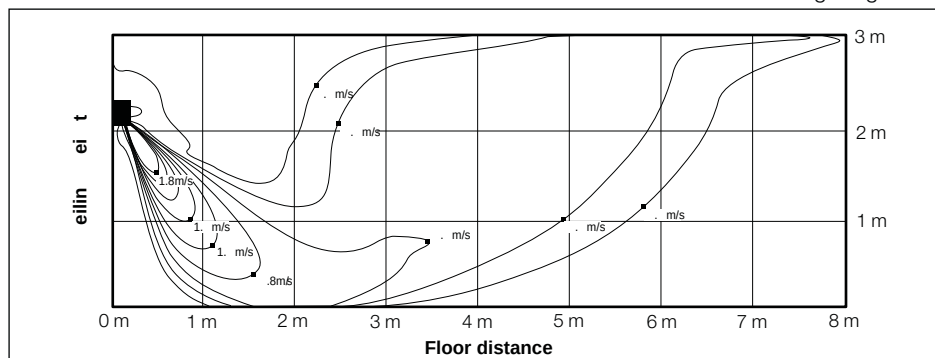
(2) Cooling temperature distribution

◆ Discharge angle : 60°



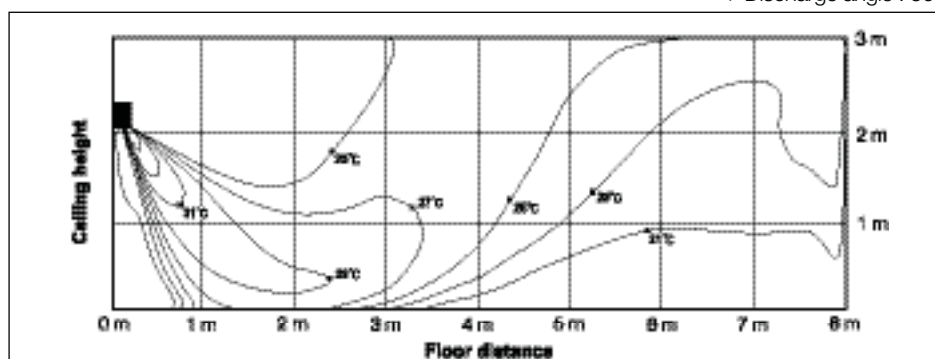
(3) Heating air velocity distribution

◆ Discharge angle : 60°



(4) Heating temperature distribution

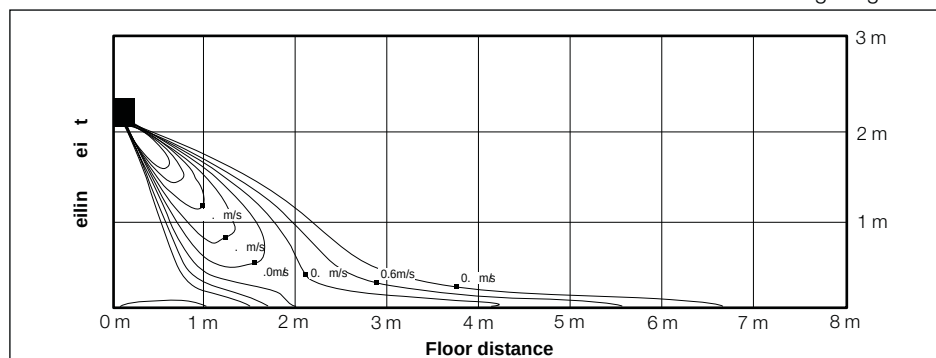
◆ Discharge angle : 60°



2) NS071NDXE*

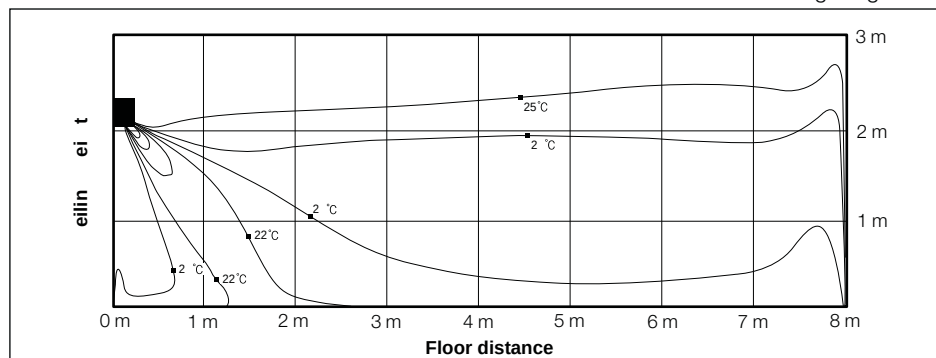
(1) Cooling air velocity distribution

◆ Discharge angle : 60°



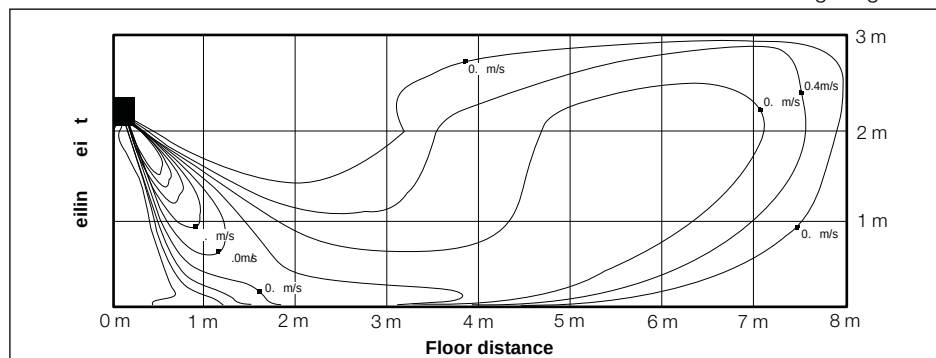
(2) Cooling temperature distribution

◆ Discharge angle : 60°



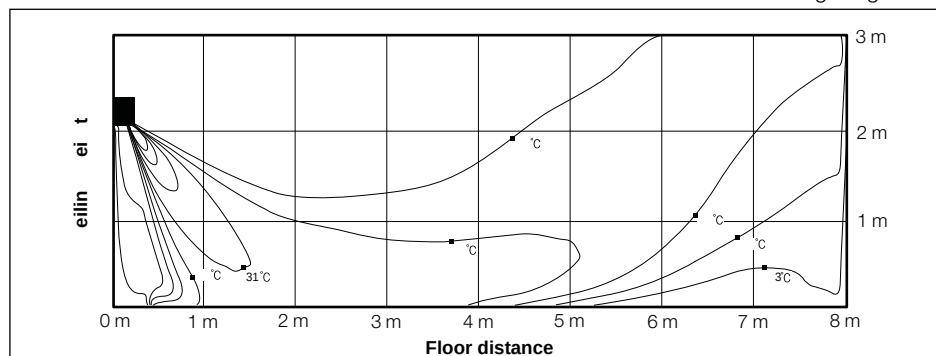
(3) Heating air velocity distribution

◆ Discharge angle : 60°



(4) Heating temperature distribution

◆ Discharge angle : 60°





Specifications

9 Outdoor units

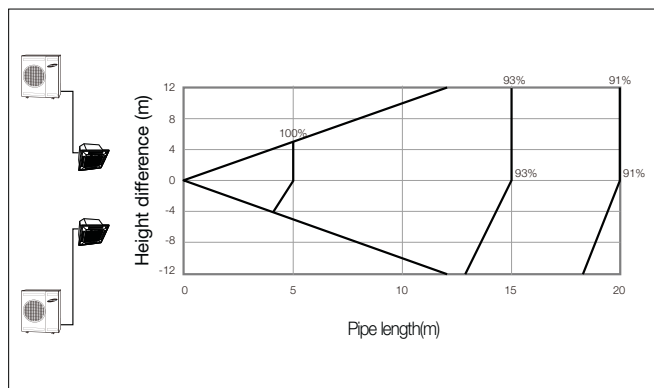
9-1. Capacity correction	140
9-2. Operation limit	145
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9-5. Cycle diagram.....	156
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9 Outdoor units

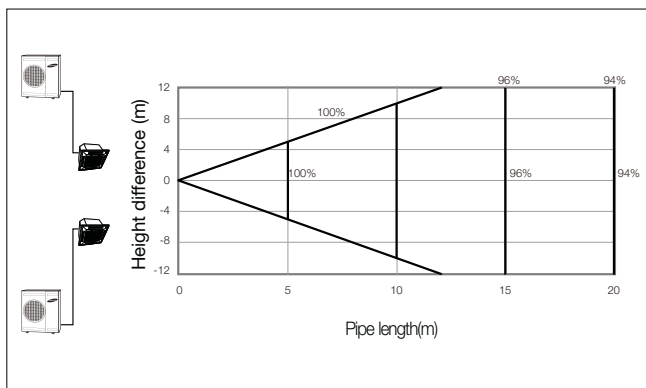
9-1. Capacity correction

1) UH026/035EAV1

(1) Cooling

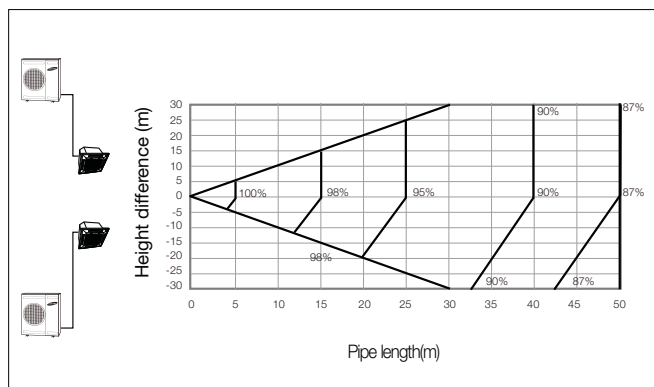


(2) Heating

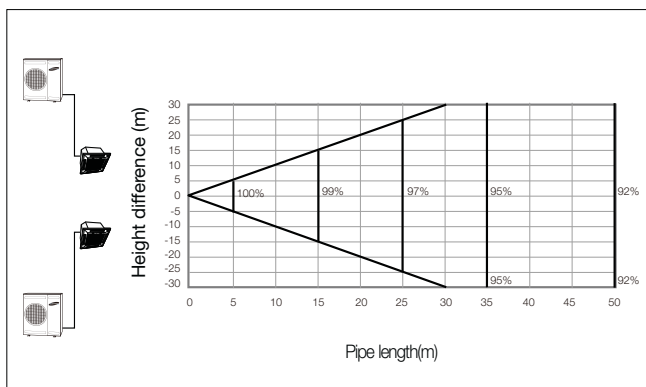


2) UH052/060EAV1, UH052/070EAS

(1) Cooling

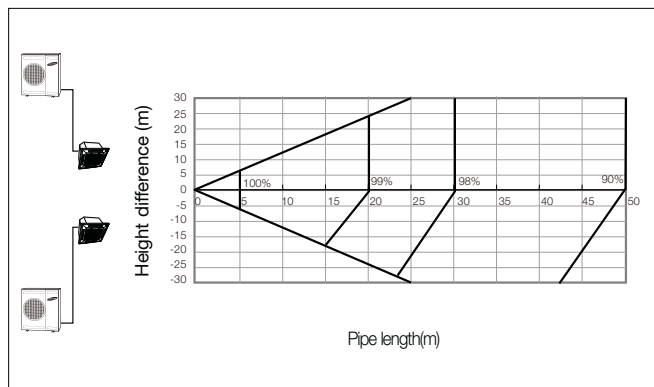


(2) Heating

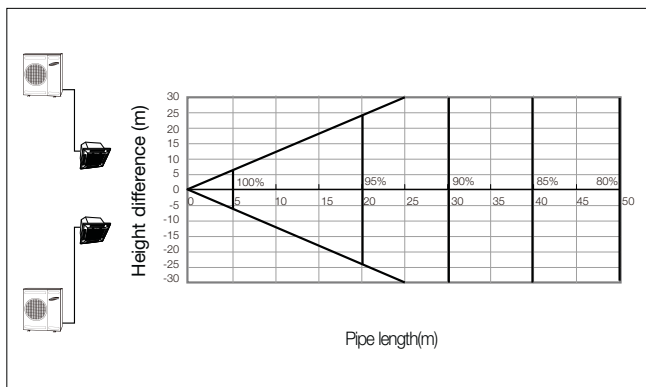


3) RC071DHXEA

(1) Cooling

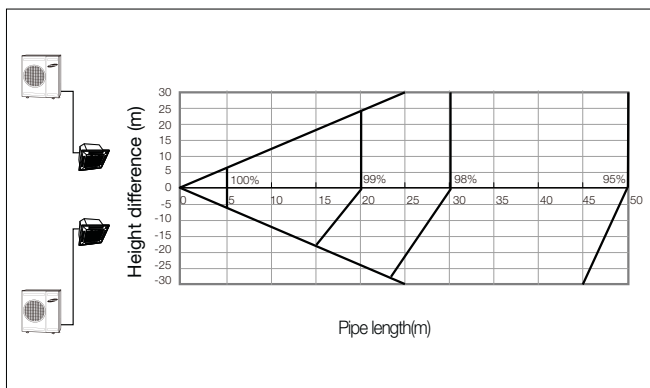


(2) Heating

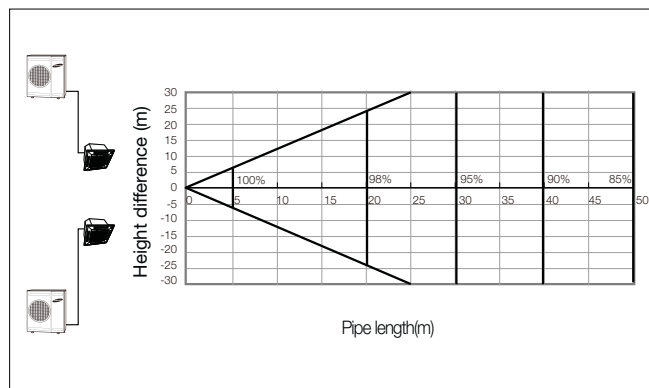


4) RC071PHXEA

(1) Cooling

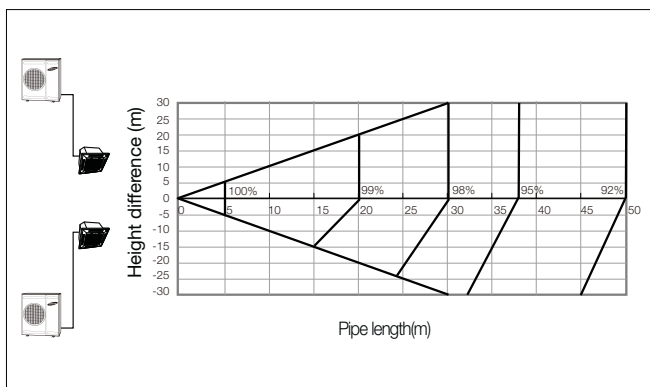


(2) Heating

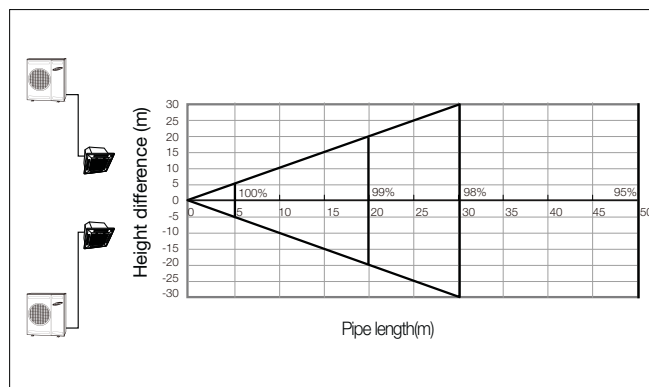


5) RC090DHXEA

(1) Cooling

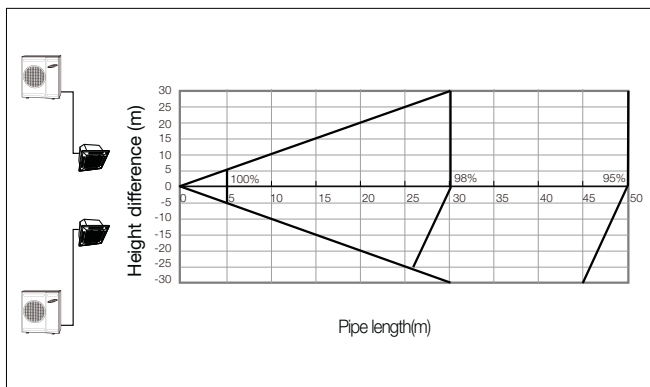


(2) Heating

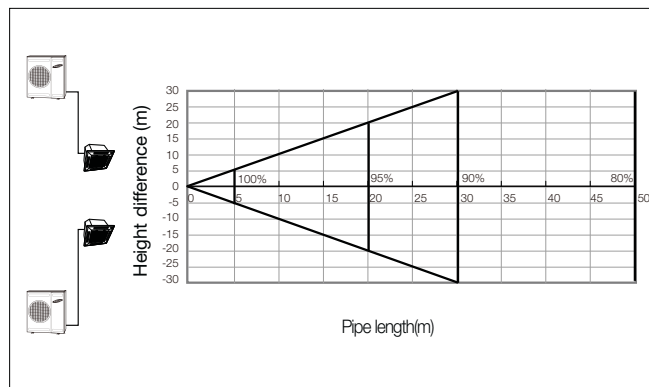


6) RC090PHXEA

(1) Cooling



(2) Heating

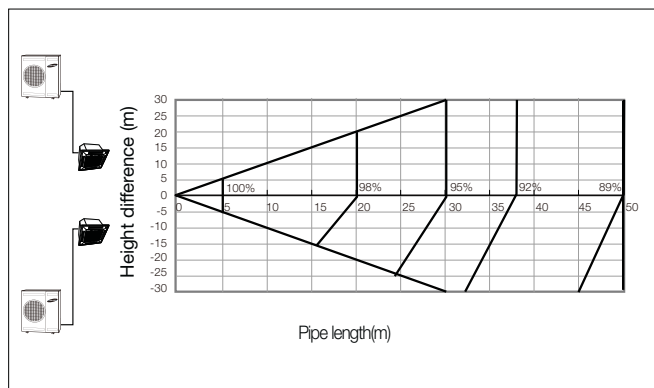


9 Outdoor units

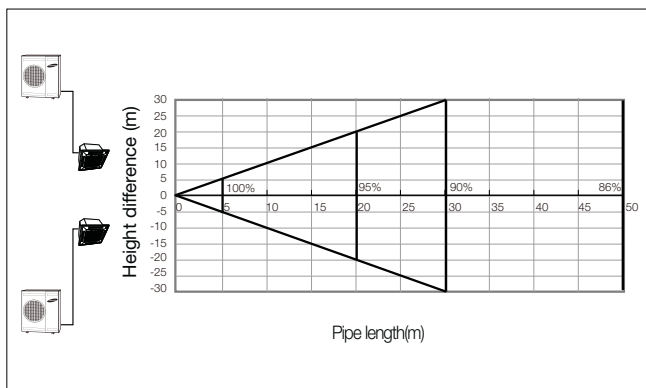
9-1. Capacity correction

7) RC100DHXEA/RC100DHXGA

(1) Cooling

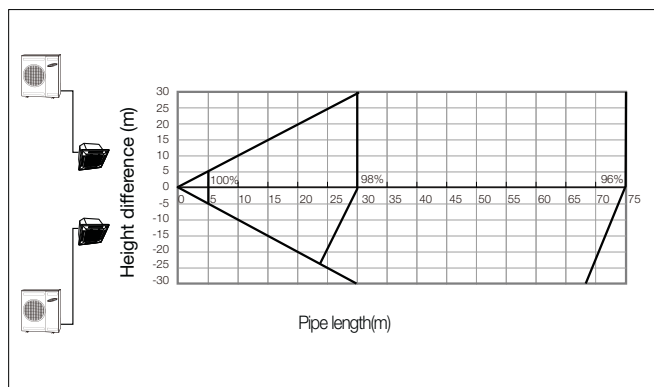


(2) Heating

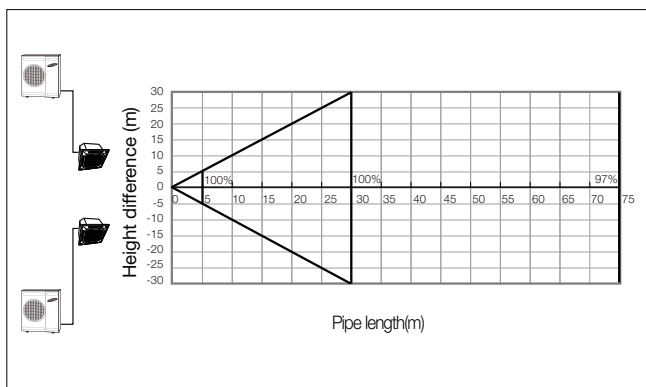


8) RC100PHXEA/RC100PHXGA

(1) Cooling

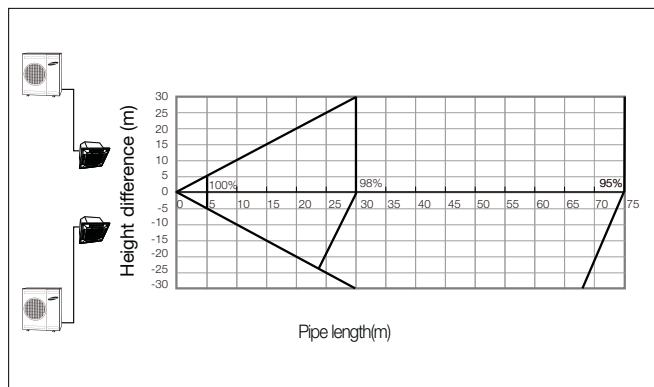


(2) Heating

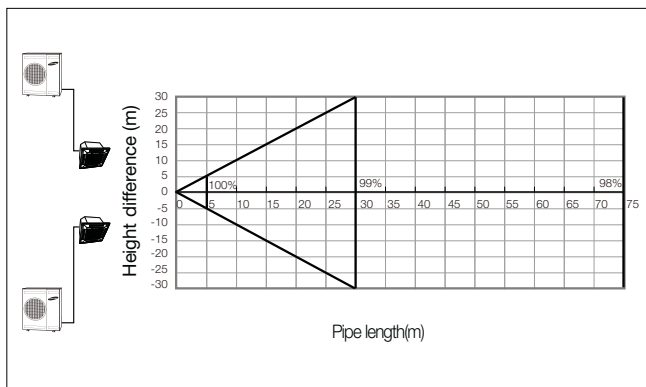


9) RC100ZHXEA

(1) Cooling

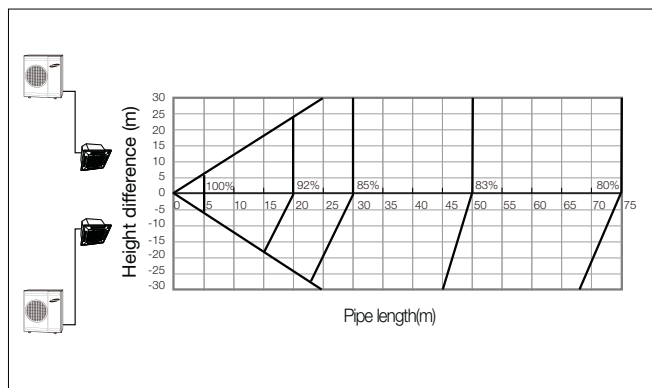


(2) Heating

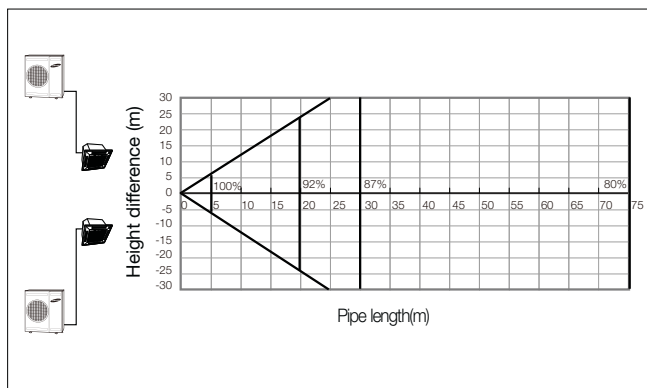


10) RC125DHXEA/RC125DHXGA

(1) Cooling

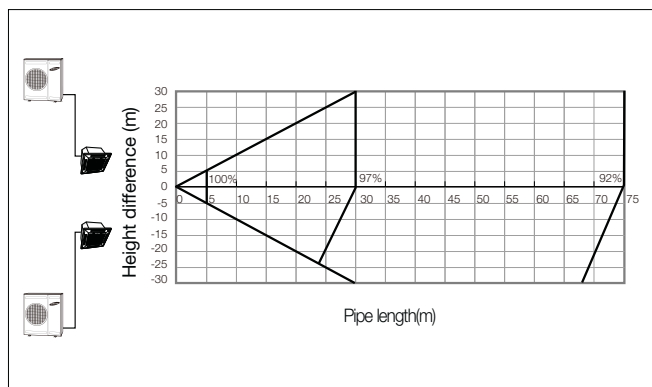


(2) Heating

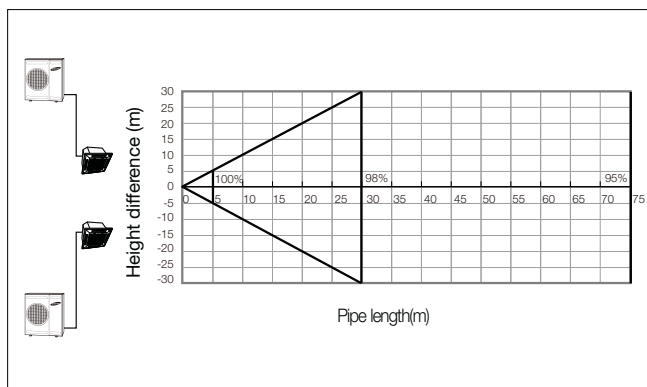


11) RC125PHXEA/RC125PHXGA

(1) Cooling

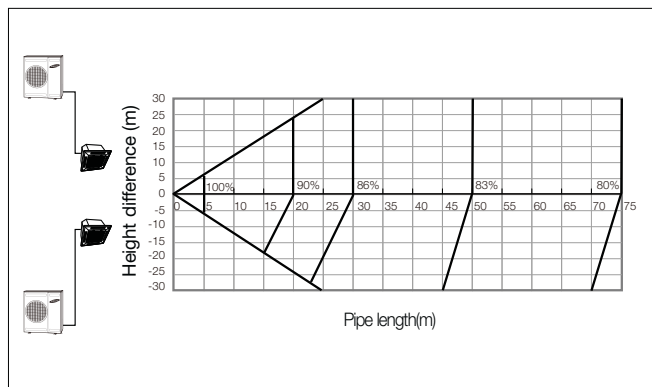


(2) Heating

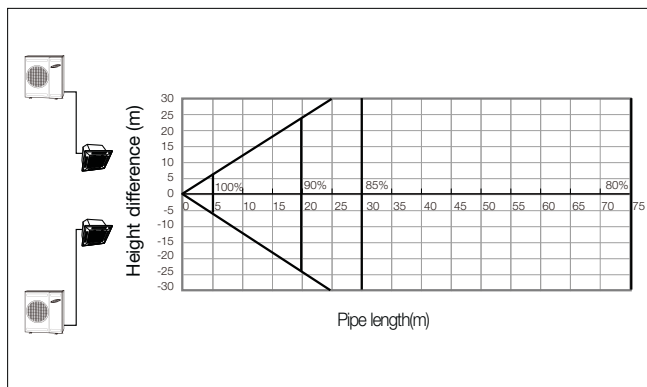


12) RC140DHXEA/RC140DHXGA

(1) Cooling



(2) Heating

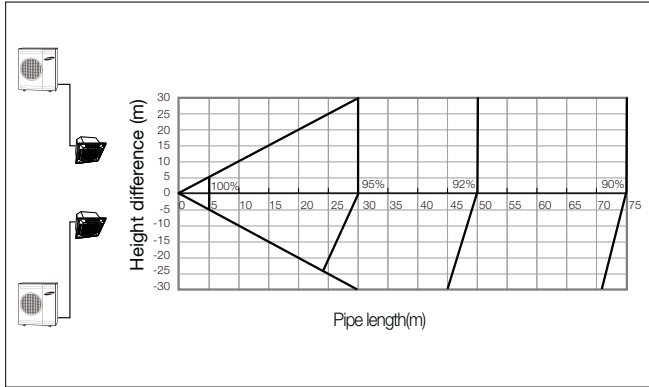


9 Outdoor units

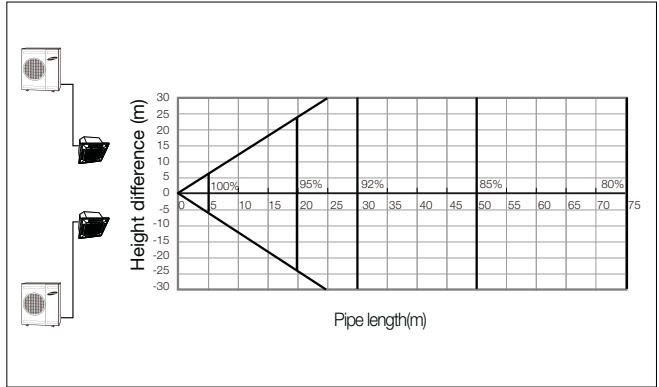
9-1. Capacity correction

13) RC140PHXEA/RC140PHXGA

(1) Cooling

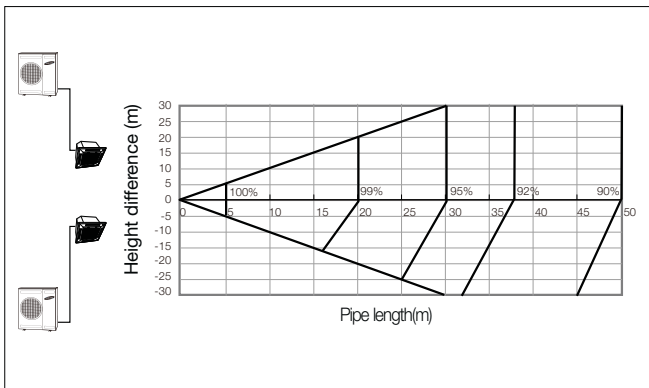


(2) Heating

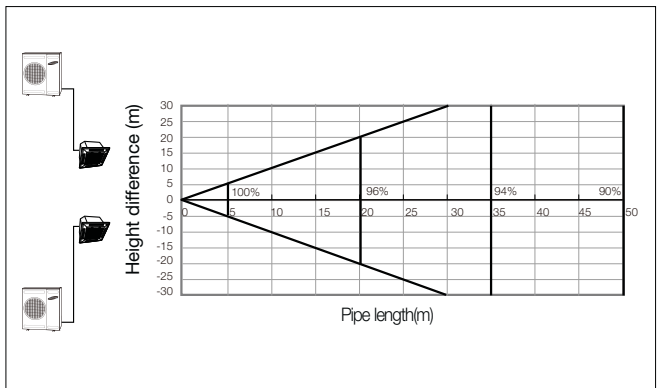


14) RC090SHXEA

(1) Cooling

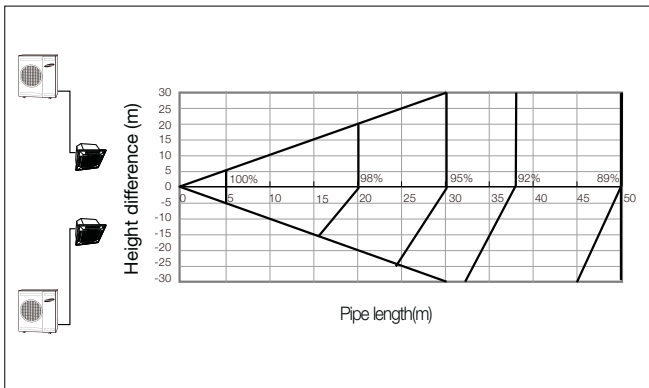


(2) Heating

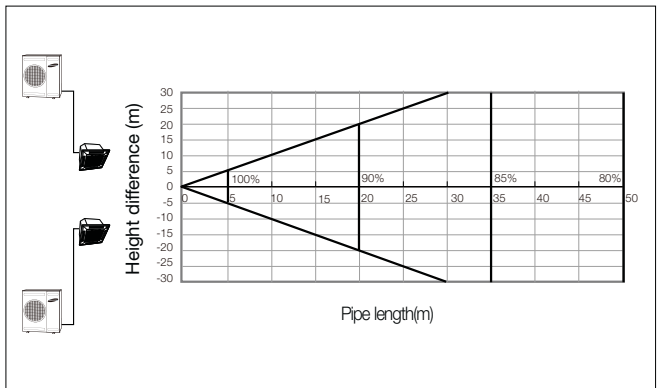


15) RC100SHXEA

(1) Cooling



(2) Heating



9-2. Operation limit

1) UH026/035EAV1, UH052/070EAS

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) UH052/060EAV1

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	

3) RC071/090/100/125/140D(P,Z,S)HX*

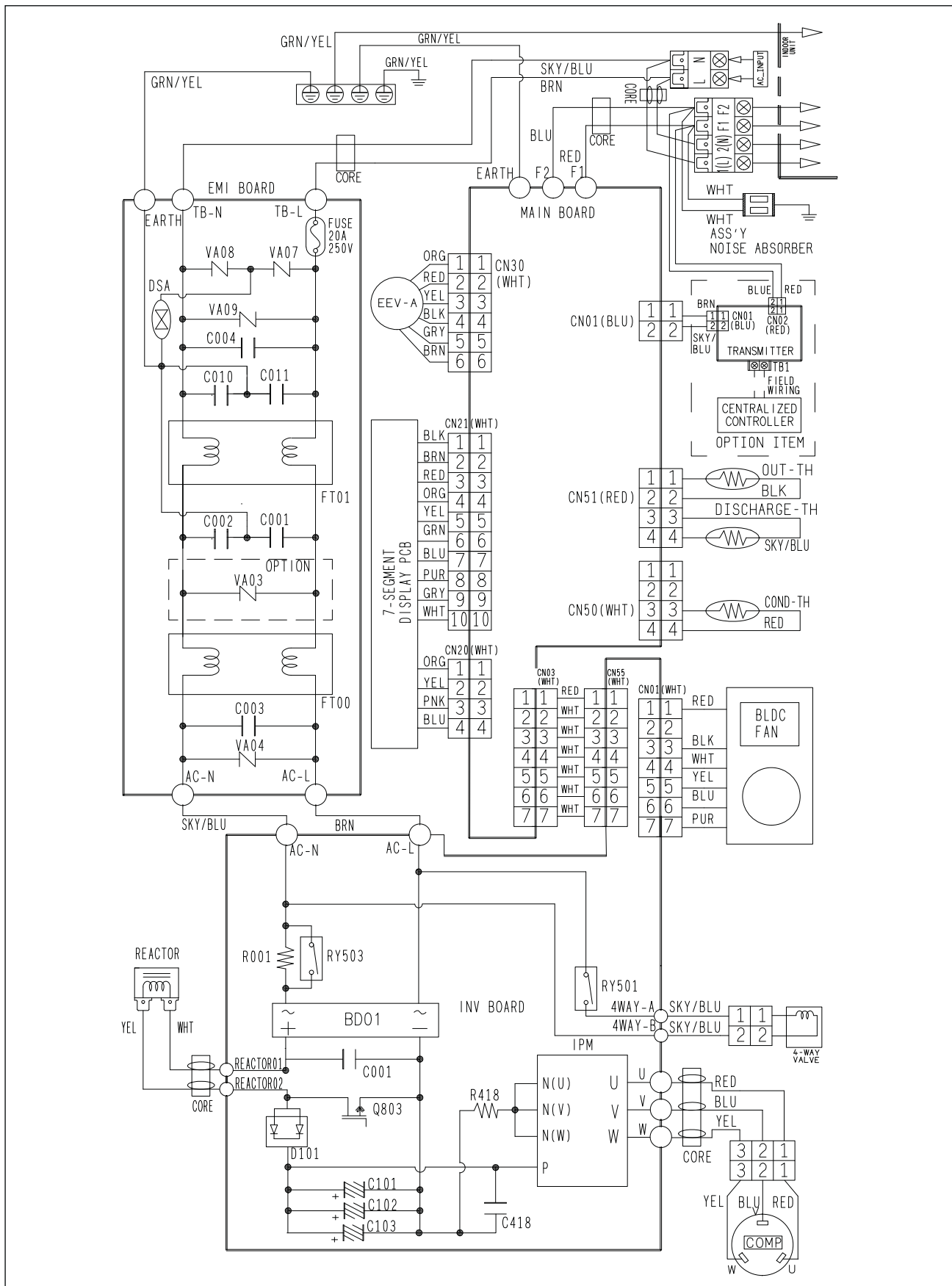
Mode	Outdoor	Indoor	Indoor
	Temperature (DB)	Temperature (DB)	Humidity (RH)
Cooling	-15°C ~ 50°C	18°C ~ 32°C	80% or less
Heating	-20°C ~ 24°C	27°C or less	
Drying	-15°C ~ 50°C	18°C ~ 32°C	

Note

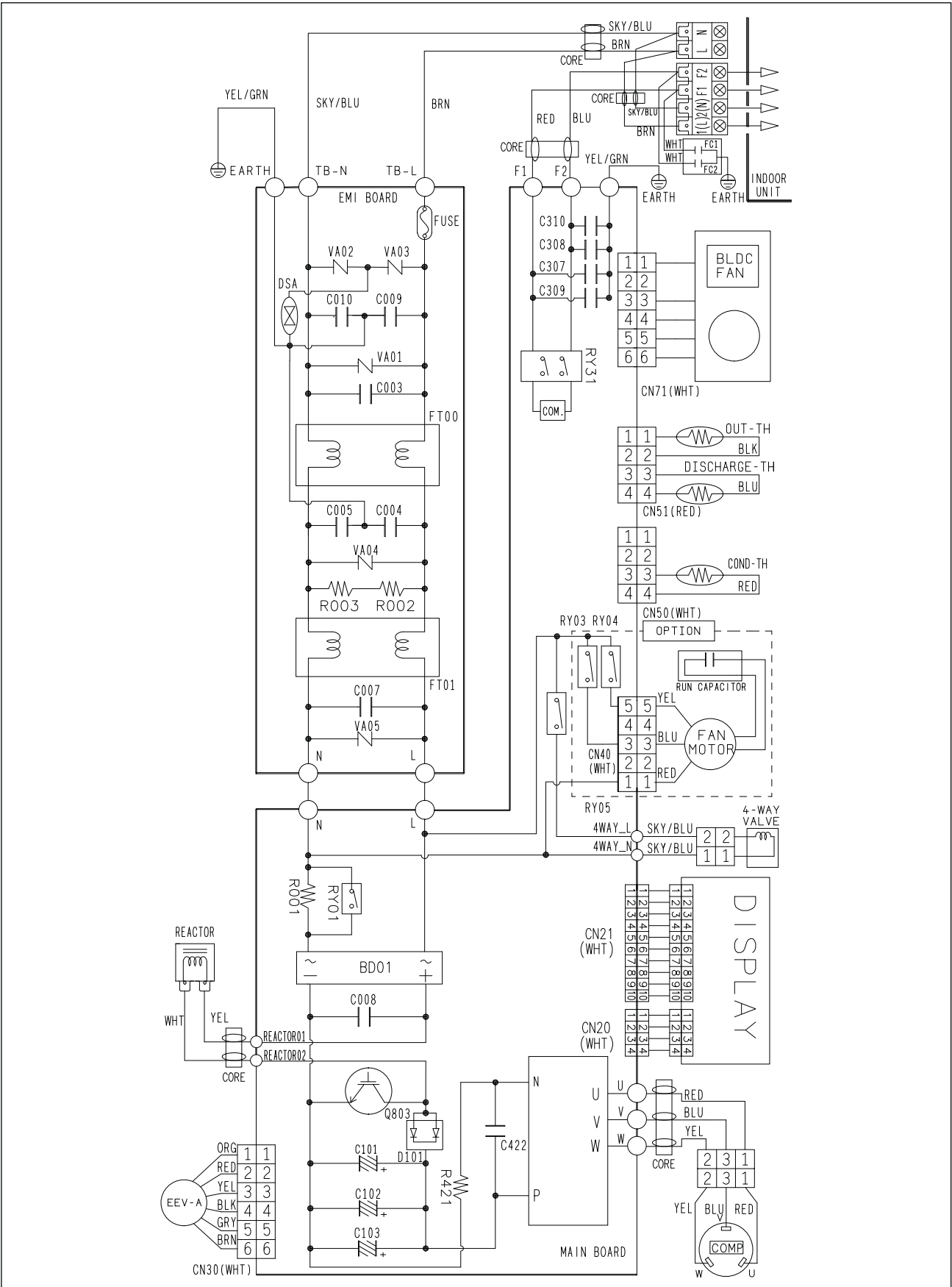
- ◆ The standardized temperature for heating is 7°C DB. If the outdoor temperature drops to 0°C DB or below, the heating capacity can be reduced depending on the temperature condition.
If the cooling operation is used at over 32°C DB, it does not cool at its full capacity.
- ◆ The use of the air conditioner 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

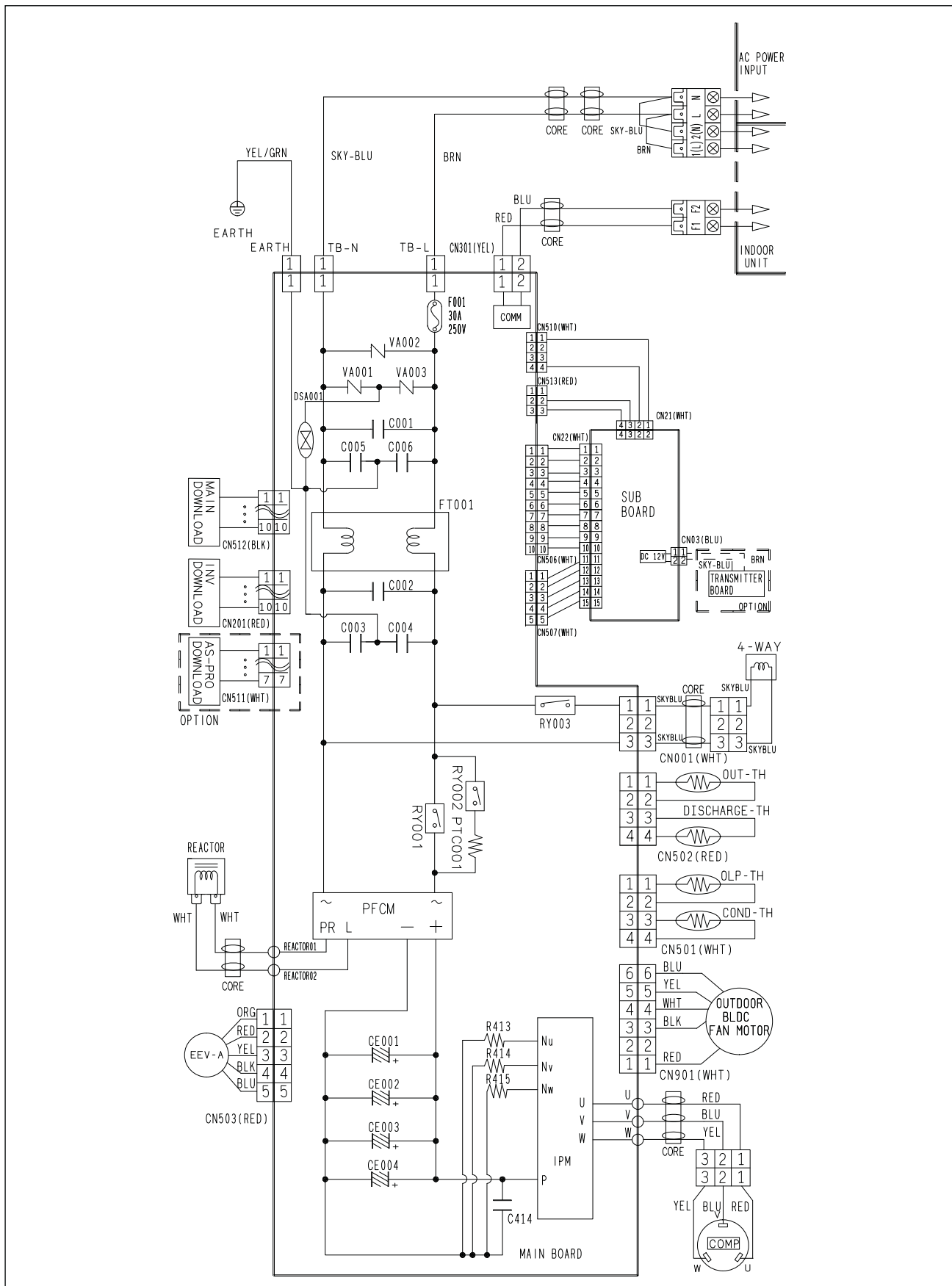


2) UH052/060EAV1

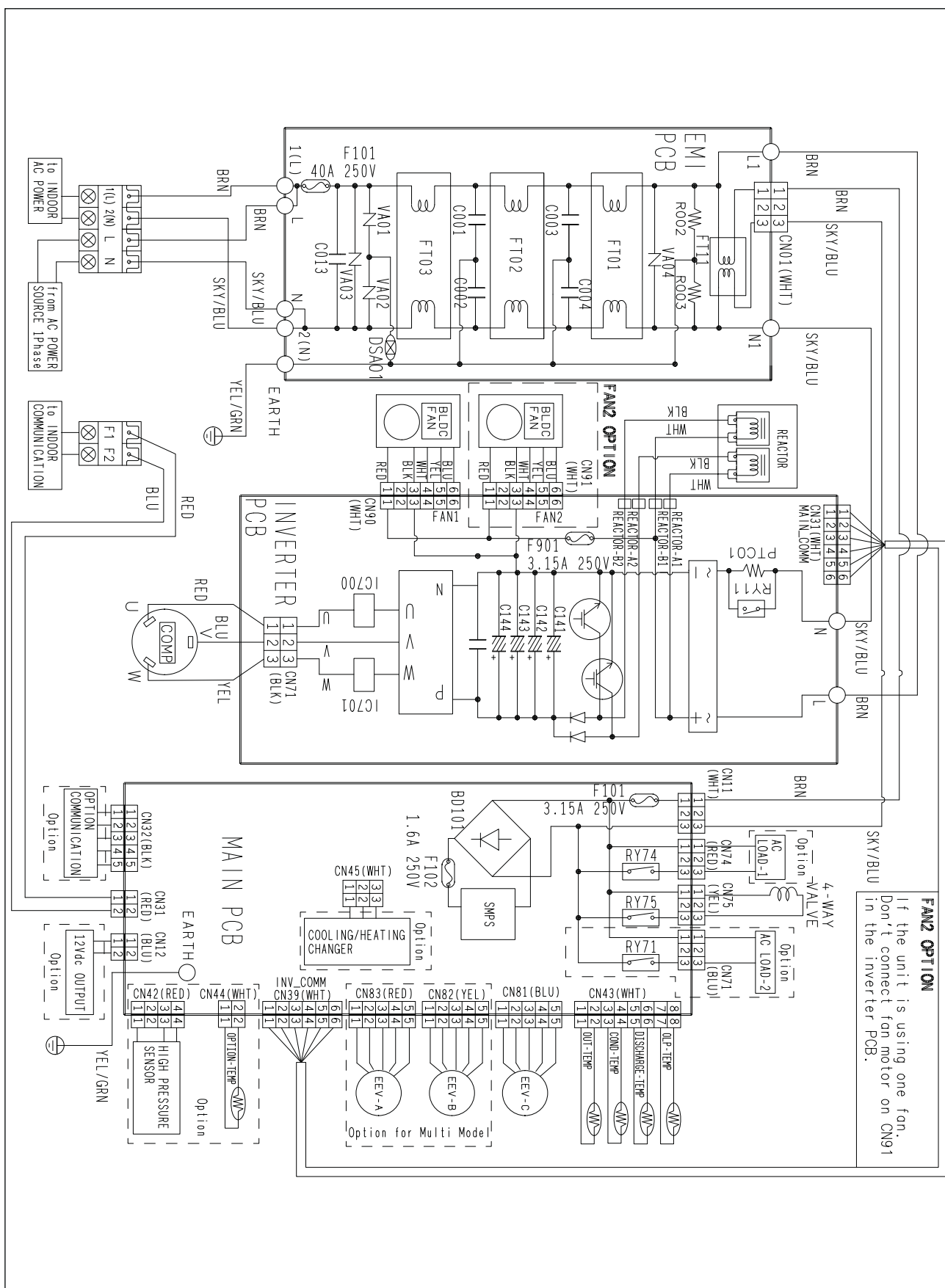


9-3. Electrical wiring diagram

3) RC071D/PHXE*



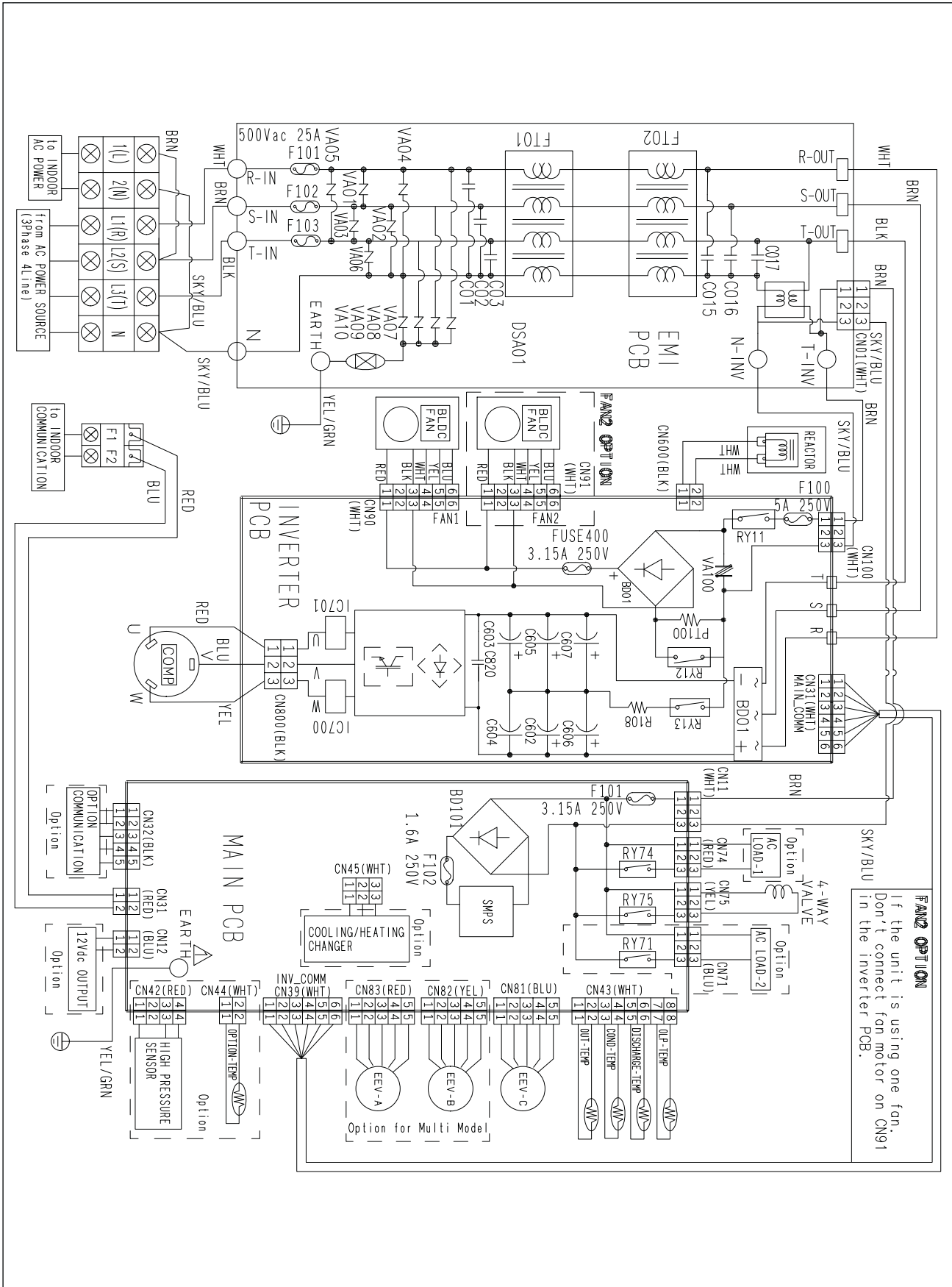
4) RC090/100/125/140D(P,Z,S)HXE*



9

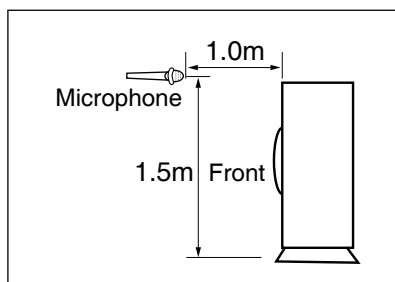
9-3. Electrical wiring diagram

5) RC100/125/140D(P)HXG*



9-4. Sound pressure level

1) Operation sound level



Unit: dB(A)

Model	Cooling	Heating
UH026EAV1	47	47
UH035EAV1	47	47
UH052EAV1	49	49
UH060EAV1	52	52
UH052EAS	49	49
UH070EAS	52	52
RC071DHXEA	49	51
RC071PHXEA	49	51
RC090DHXEA	51	52
RC090PHXEA	52	53
RC100DHXEA	52	53
RC100DHXGA	52	53
RC100PHXEA	49	51
RC100PHXGA	49	51
RC100ZHXEA	49	51

Unit: dB(A)

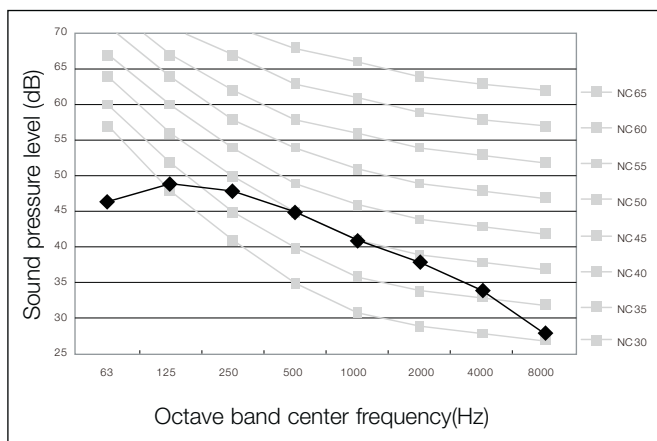
Model	Cooling	Heating
RC125DHXEB	51	52
RC125DHXGA	51	52
RC125PHXEA	51	52
RC125PHXGA	51	52
RC140DHXEB	52	54
RC140DHXGA	52	54
RC140PHXEA	51	53
RC140PHXGA	51	53
RC090SHXEA	52	53
RC100SHXEA	52	53

✓ Note

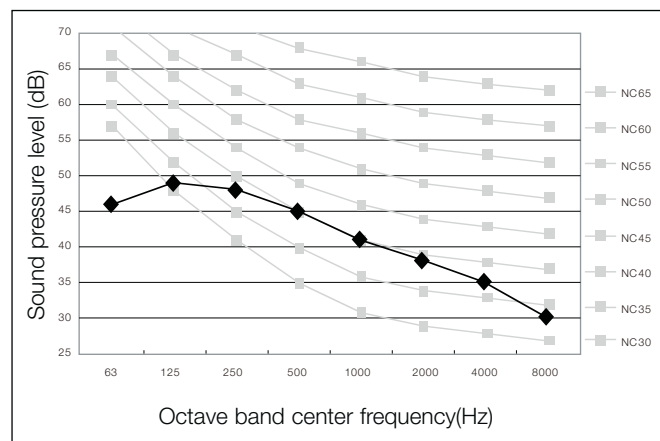
- ◆ These operation values were obtained in a dead room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- ◆ Operation sound level may differ depending on operation and ambient conditions.

2) NC curves

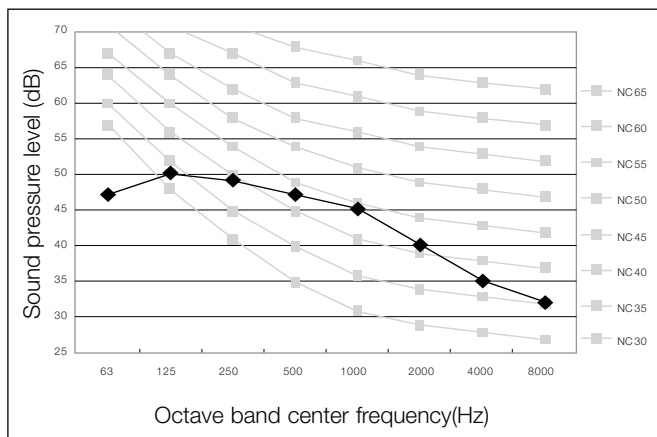
(1) UH026EAV1



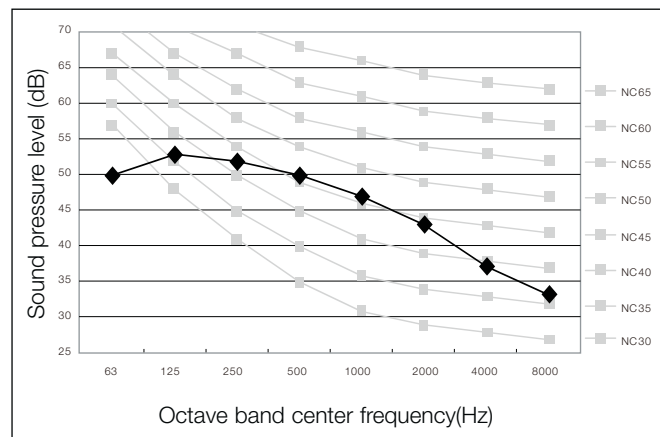
(2) UH035EAV1



(3) UH052EAV1



(4) UH060EAV1

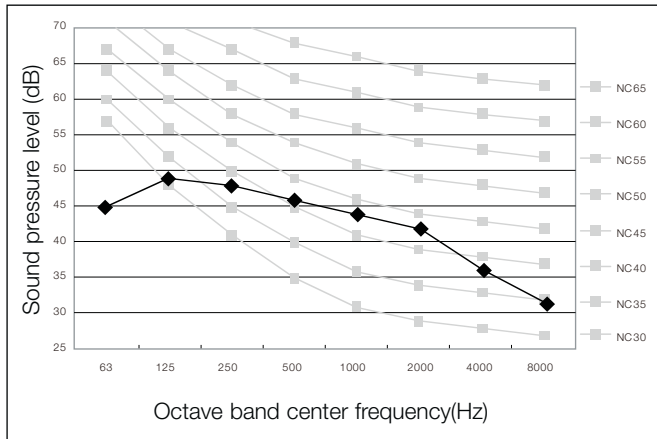


9 Outdoor units

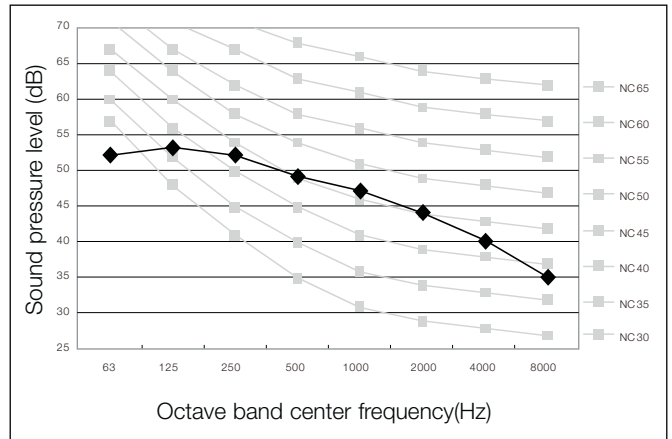
9-4. Sound pressure level

2) NC curves

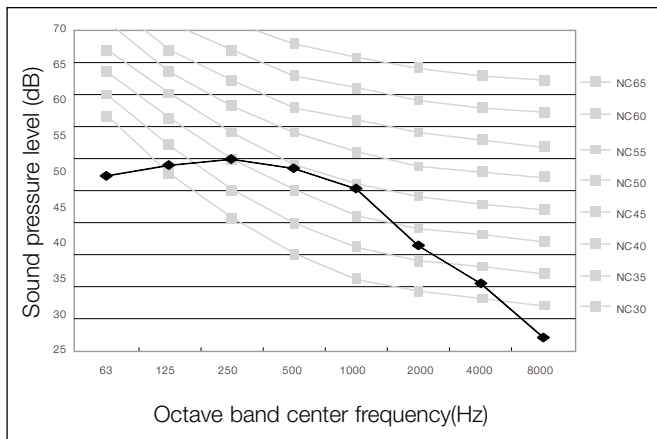
(5) UH052EAS



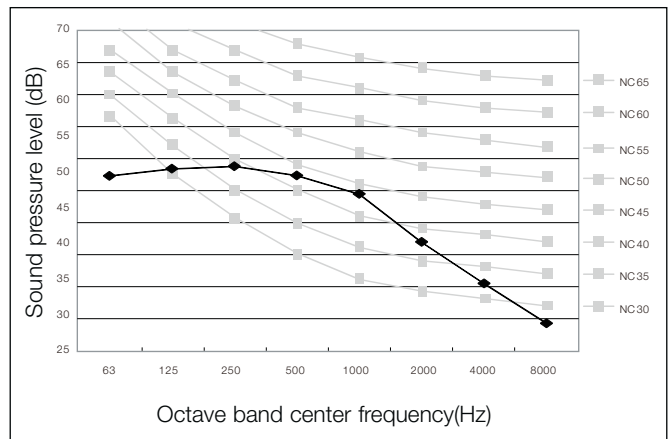
(6) UH070EAS



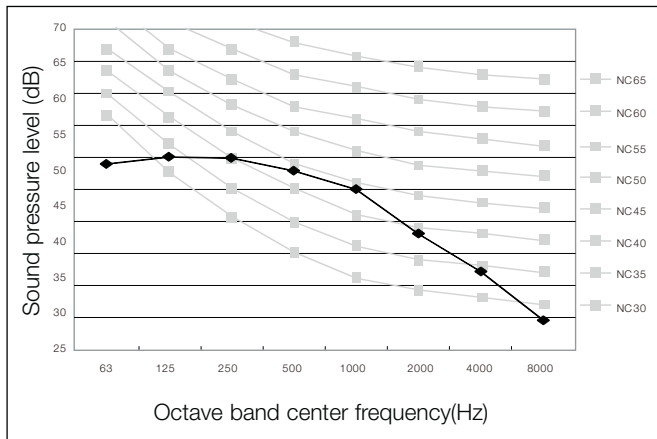
(7) RC071DHXEA



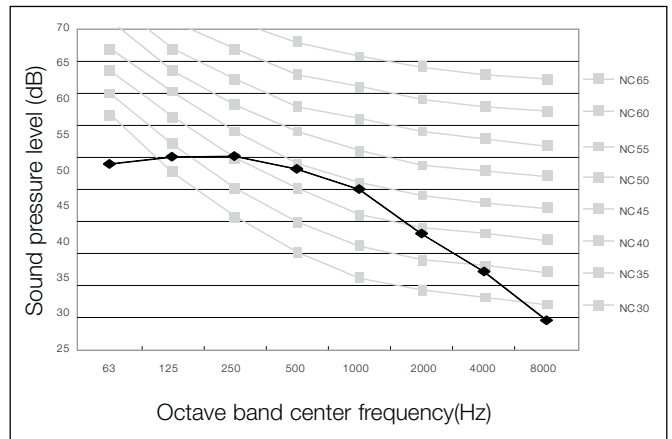
(8) RC071PHXEA



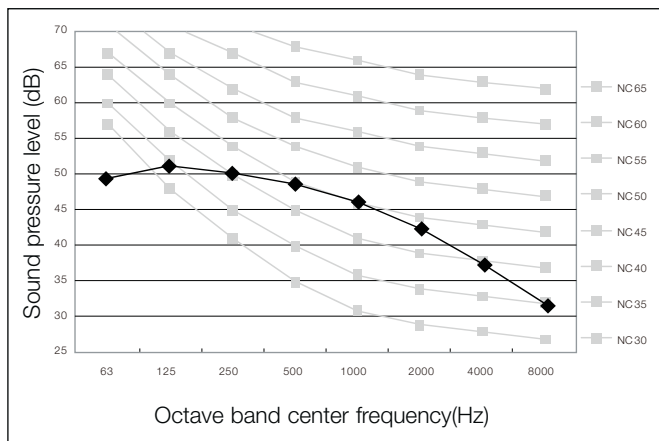
(9) RC090DHXEA



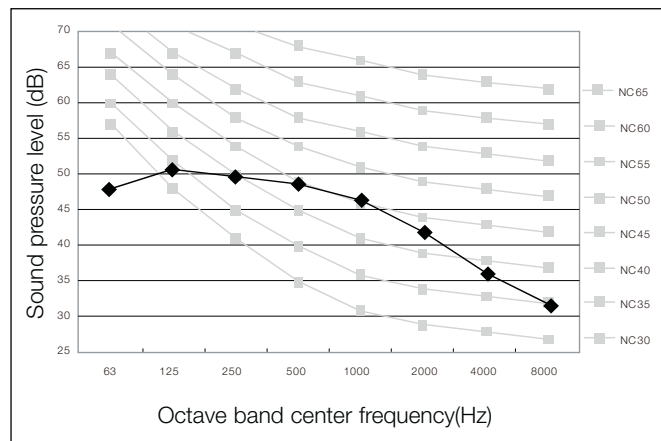
(10) RC090PHXEA



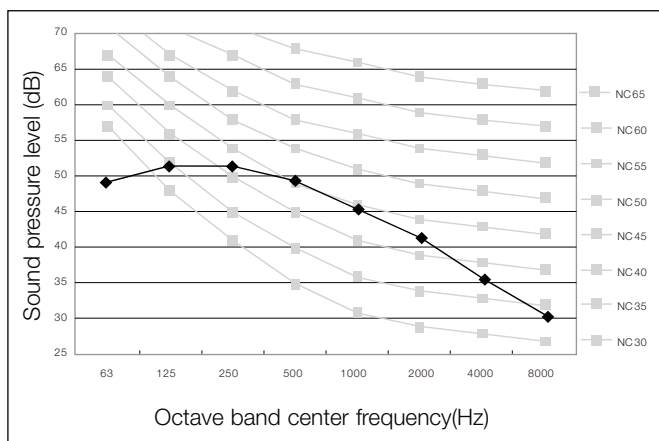
(11) RC100DHXEA



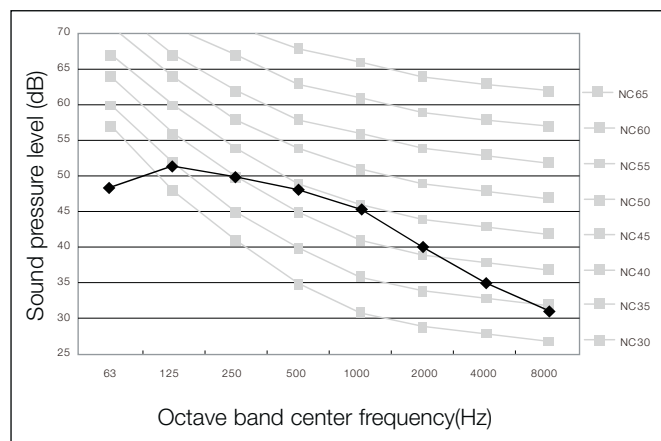
(12) RC100DHXGA



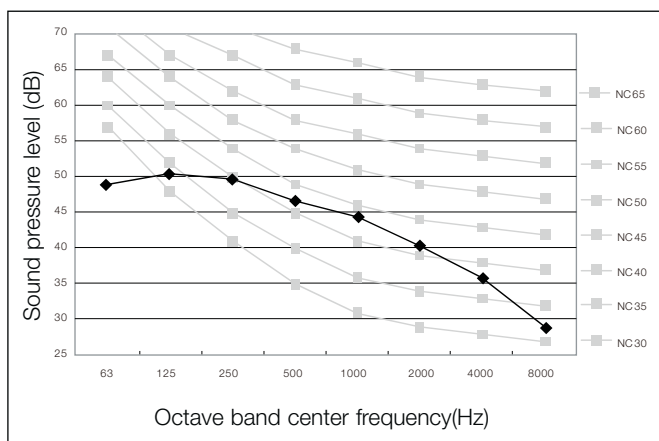
(13) RC100PHXEA



(14) RC100PHXGA



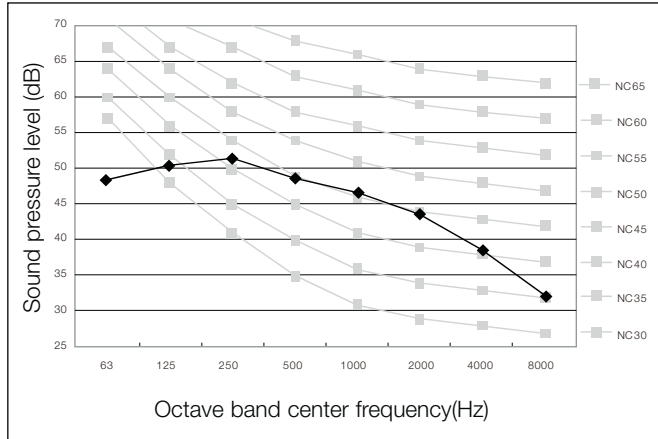
(15) RC100ZHXEA



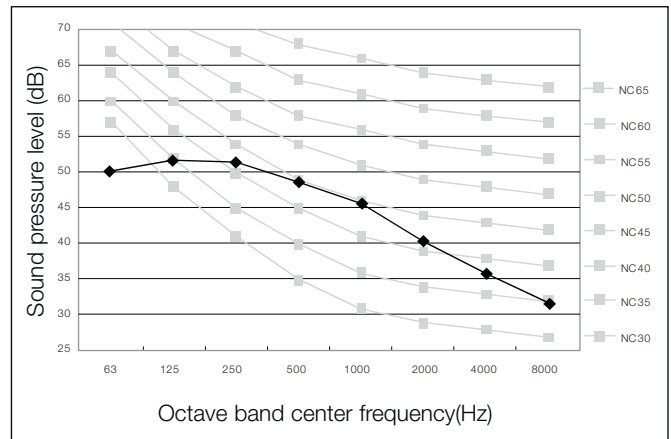
9-4. Sound pressure level

2) NC curves

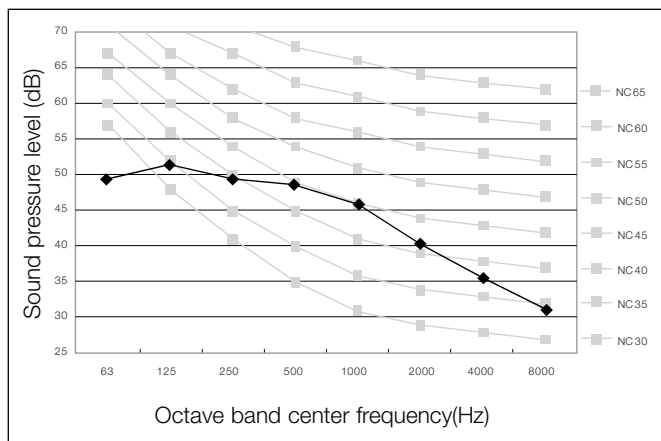
(16) RC125DHXEB



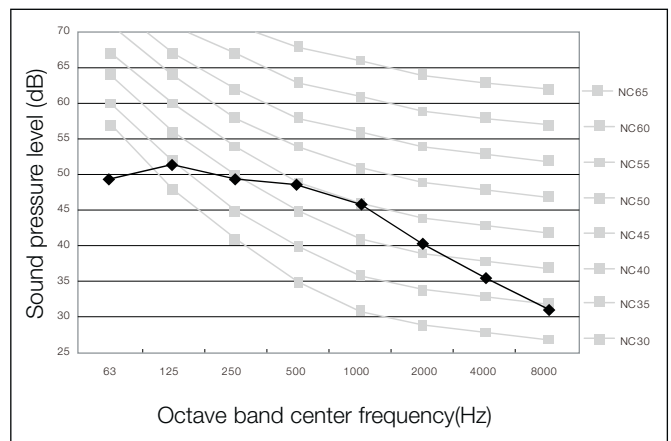
(17) RC125DHXGA



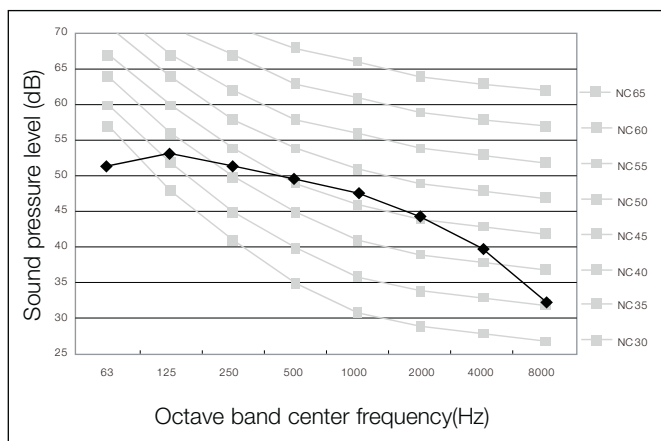
(18) RC125PHXEA



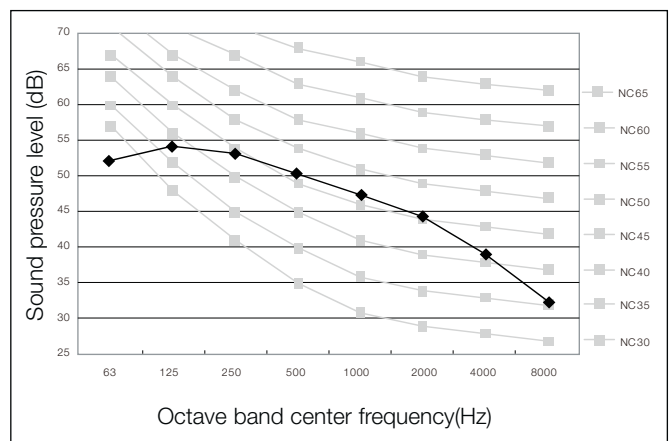
(19) RC125PHXGA



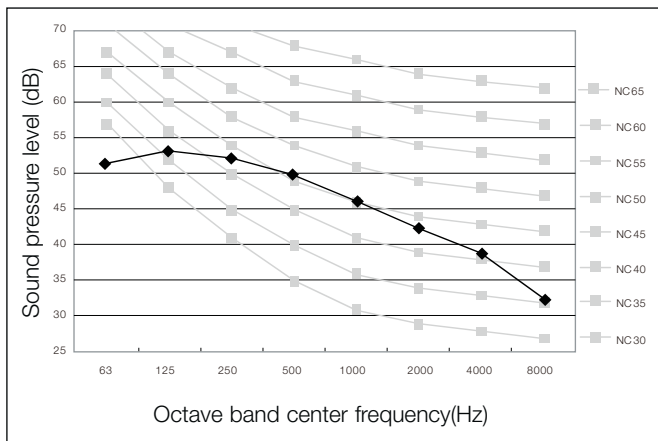
(20) RC140DHXEB



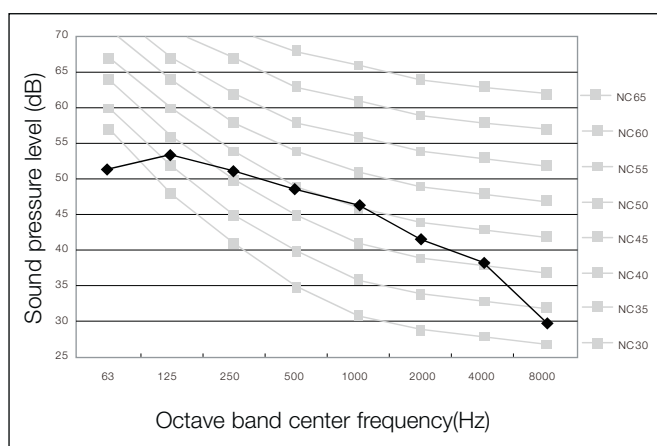
(21) RC140DHXGA



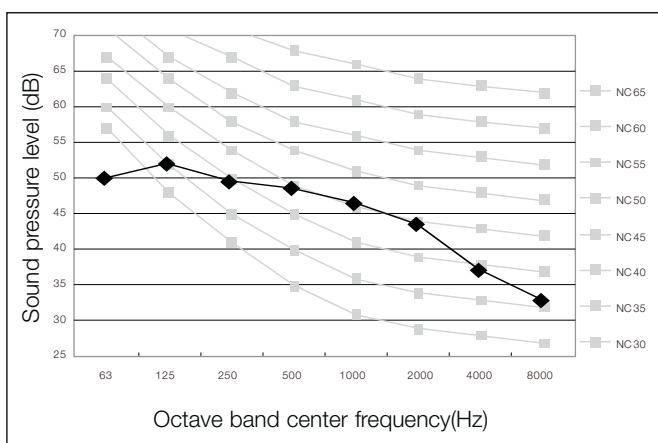
(22) RC140PHXEA



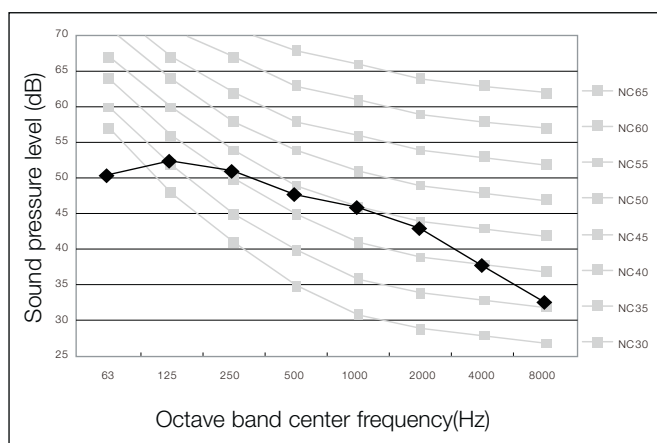
(23) RC140PHXGA



(24) RC090SHXEA

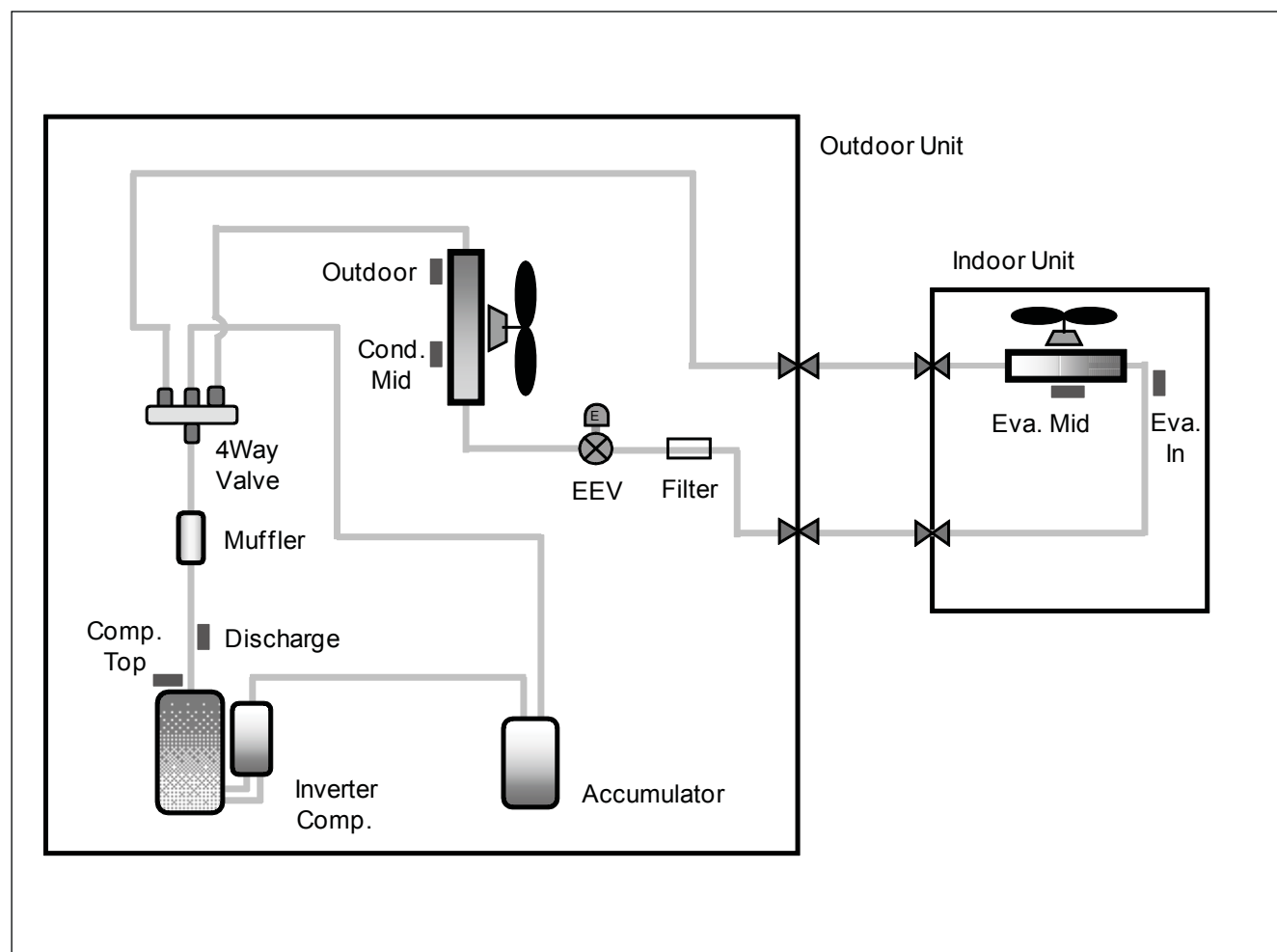


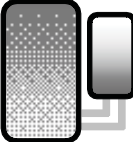
(25) RC100SHXEA



9 Outdoor units

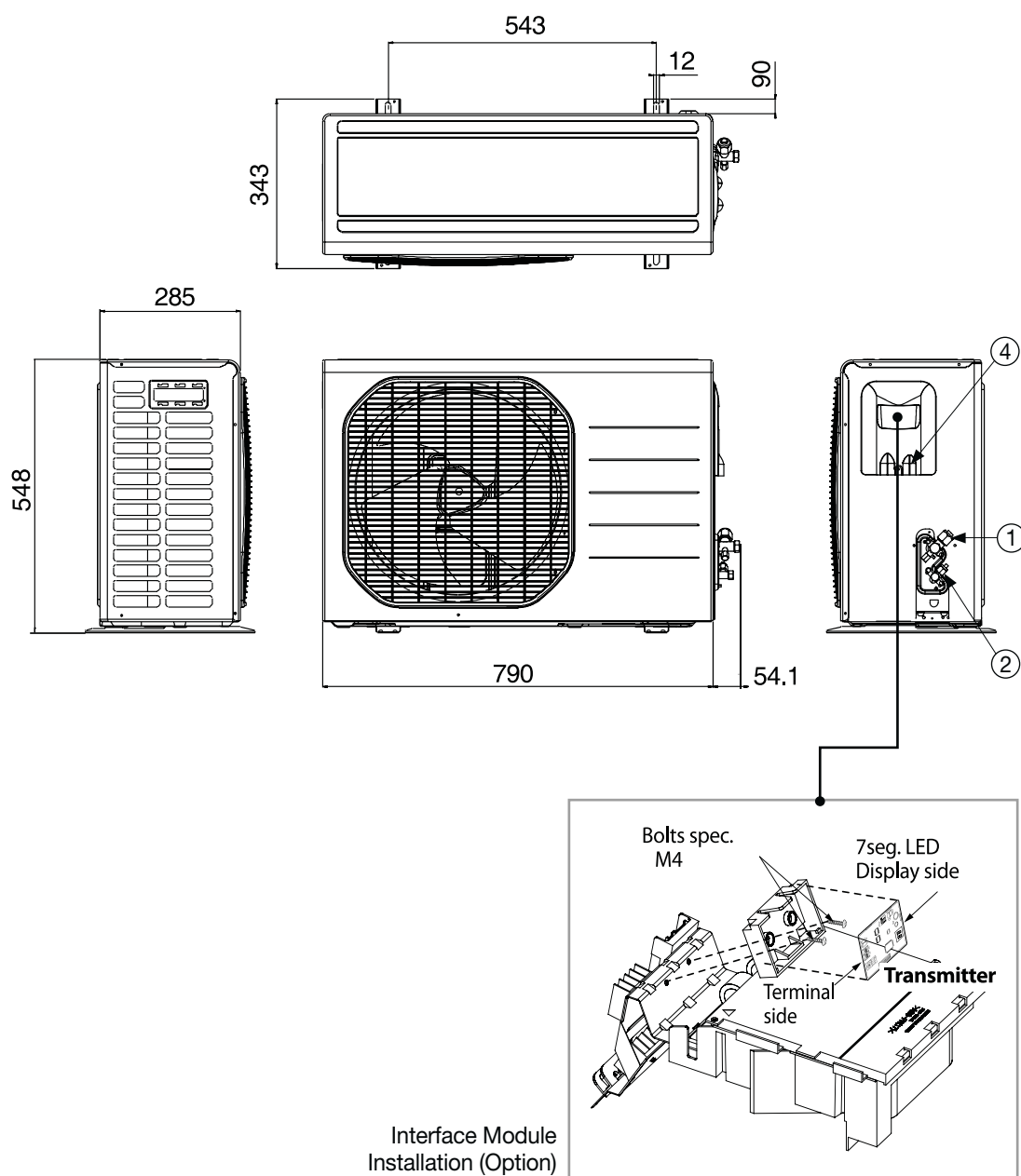
9-5. Cycle diagram



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

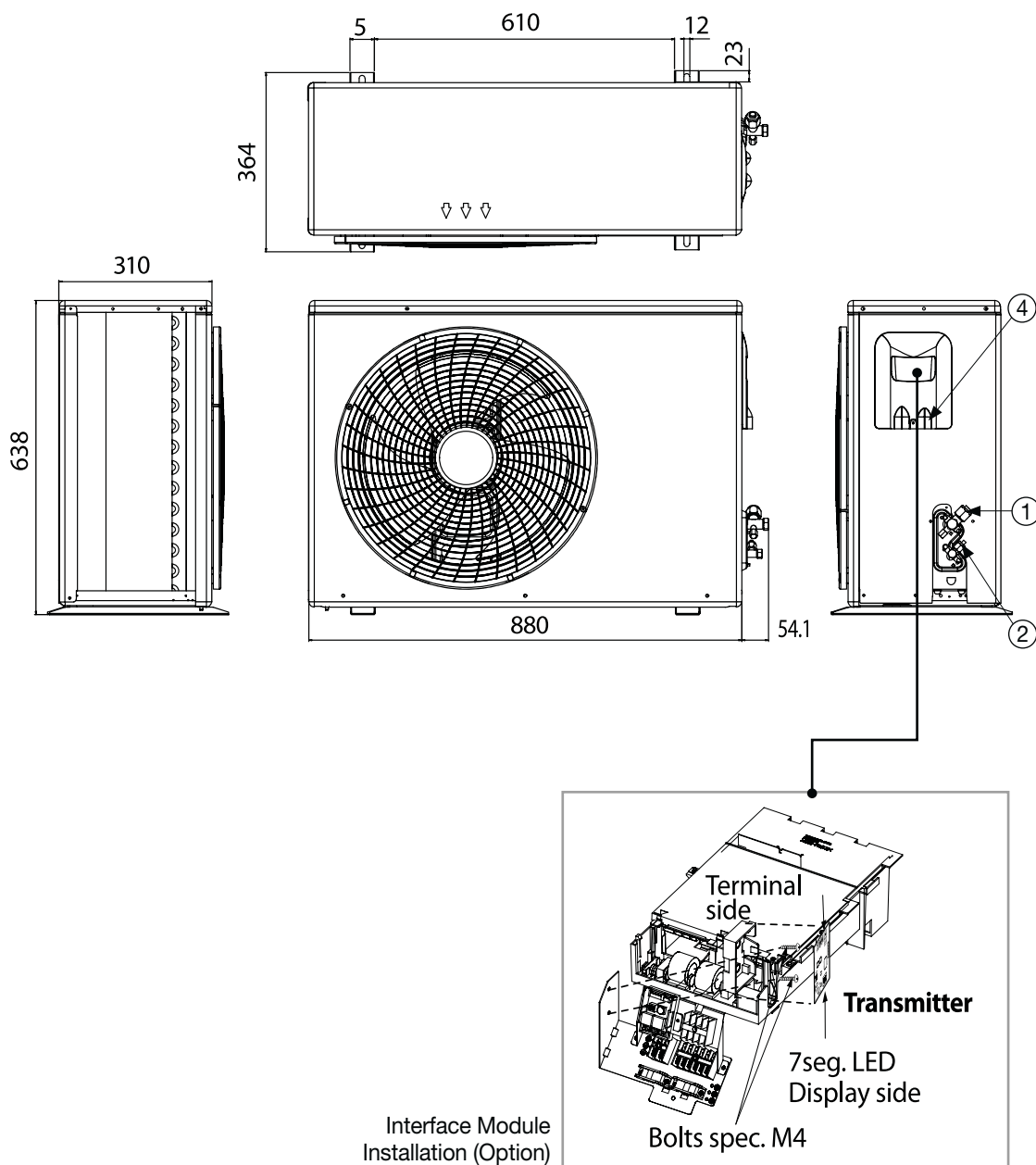


No.	Name		Description	
			2.6kW	3.5kW
①	Gas Ref. Pipe	Ø, mm (inch)	9.52 (3/8)	
②	Liquid Ref. Pipe	Ø, mm (inch)	6.35 (1/4)	
③	Condensate Drain Holes	Ø, mm	20 x 1	
④	Power & Communication Wiring Holes	Ø, mm	-	

9 Outdoor units

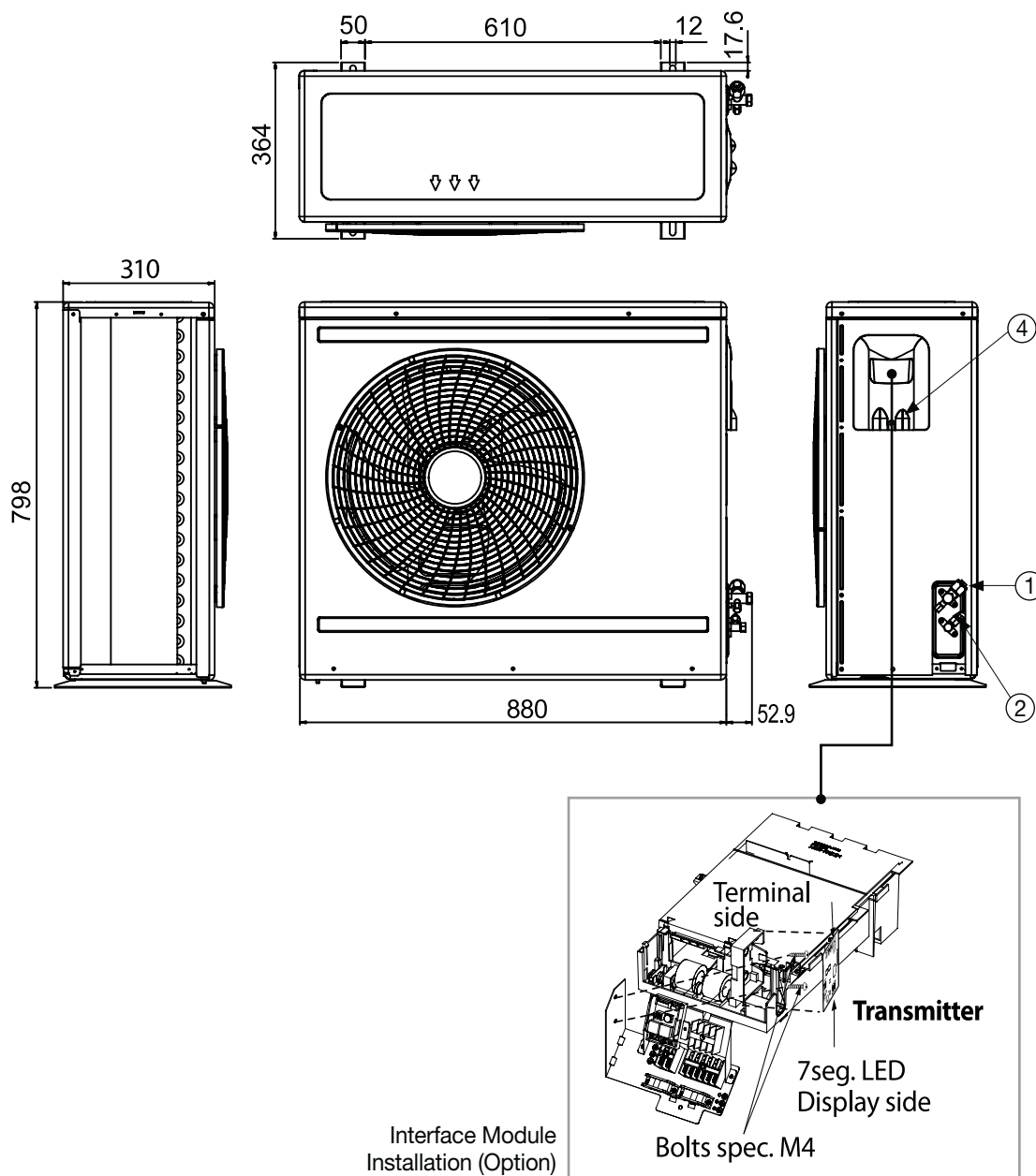
9-6. Dimensional drawing

2) UH052EAV1, UH052/070EAS



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) UH060EAV1

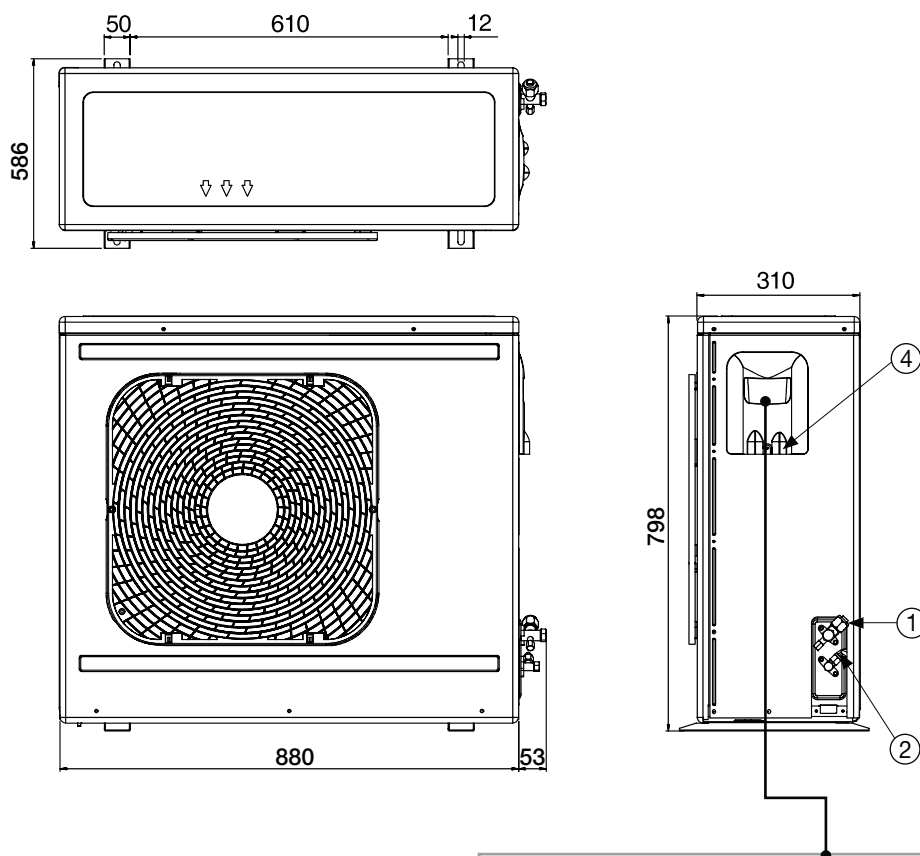


No.	Name		Description
			6.0kW
①	Gas Ref. Pipe	Ø, mm (inch)	15.88 (5/8)
②	Liquid Ref. Pipe	Ø, mm (inch)	6.35 (1/4)
③	Condensate Drain Holes	Ø, mm	20 x 1
④	Power & Communication Wiring Holes	Ø, mm	-

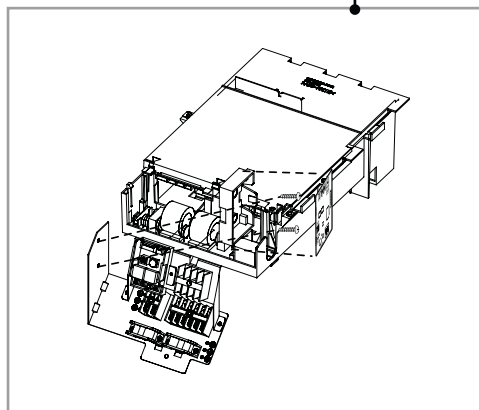
9 Outdoor units

9-6. Dimensional drawing

4) RC071D/PHXE*

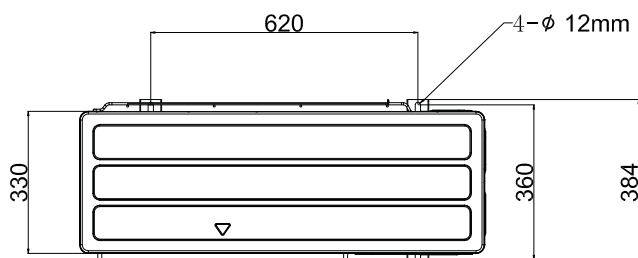


Interface Module
Installation (Option)

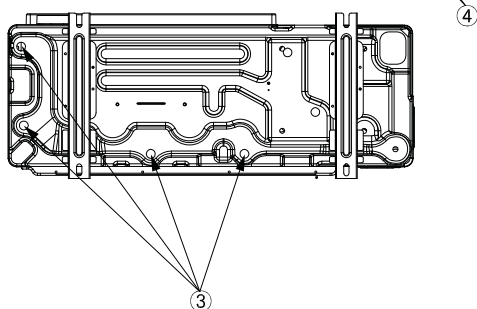
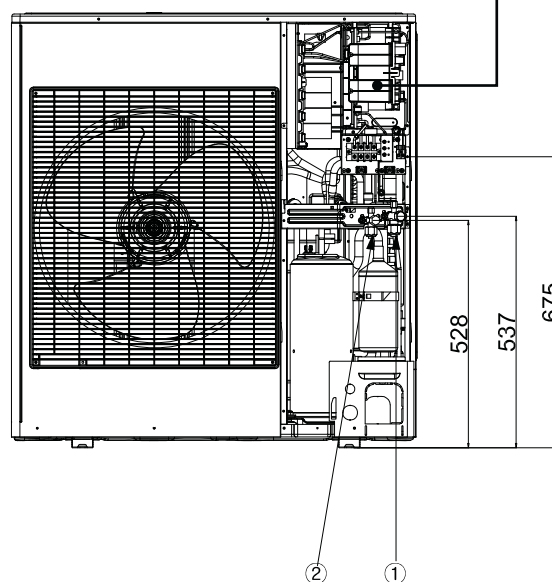
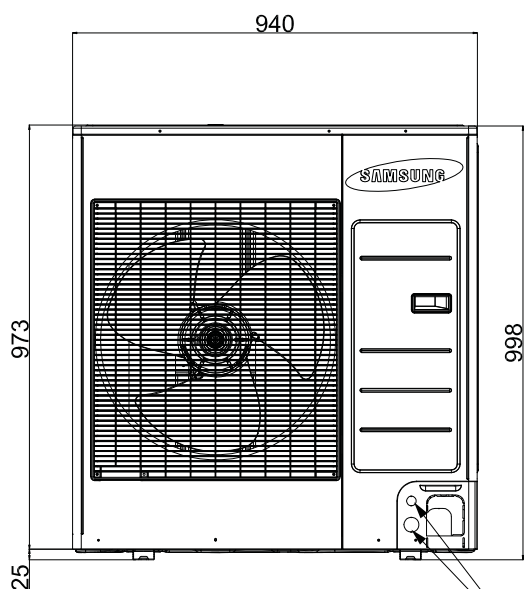
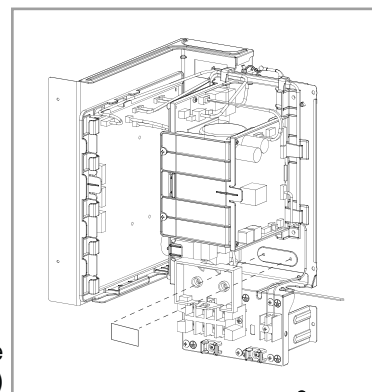


No.	Name		Description
			7.1kW
①	Gas Ref. Pipe	Ø, mm (inch)	15.88 (5/8)
②	Liquid Ref. Pipe	Ø, mm (inch)	6.35 (1/4)
③	Condensate Drain Holes	Ø, mm	20 x 1
④	Power & Communication Wiring Holes	Ø, mm	-

5) RC090D/PHXE*, RC100DHXE/G*, RC090/100SHXE*



Interface Module
Installation (Option)

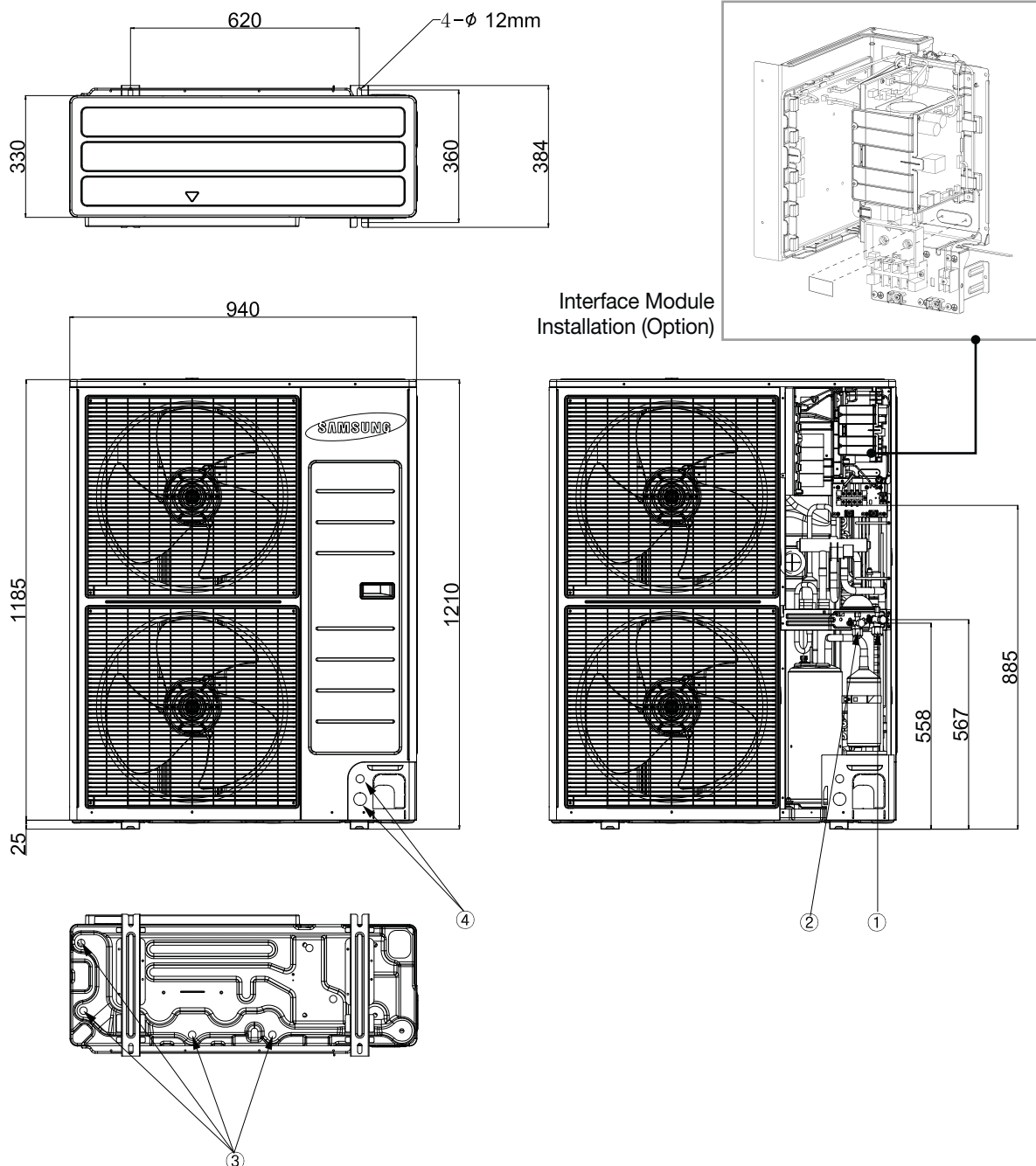


No.	Name		Description	
			9.0kW	10.0kW
①	Gas Ref. Pipe	Ø, mm (inch)	15.88 (5/8)	
②	Liquid Ref. Pipe	Ø, mm (inch)	9.52 (3/8)	
③	Condensate Drain Holes	Ø, mm	20 x 4	
④	Power & Communication Wiring Holes	Ø, mm	22.2 x 3 / 34.5 x 3	

9 Outdoor units

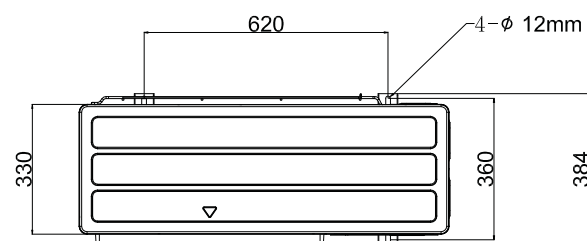
9-6. Dimensional drawing

6) RC100/125PHXE/G*, RC125/140DHXEB

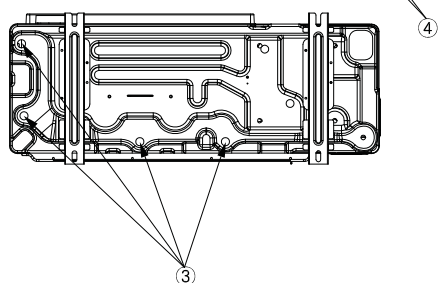
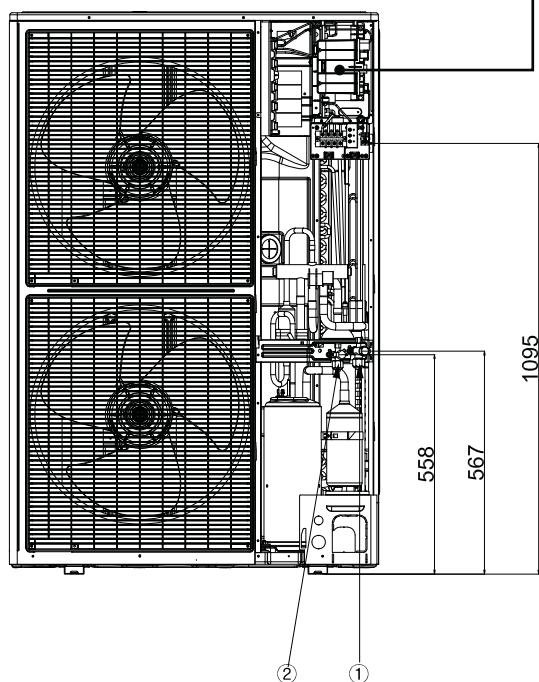
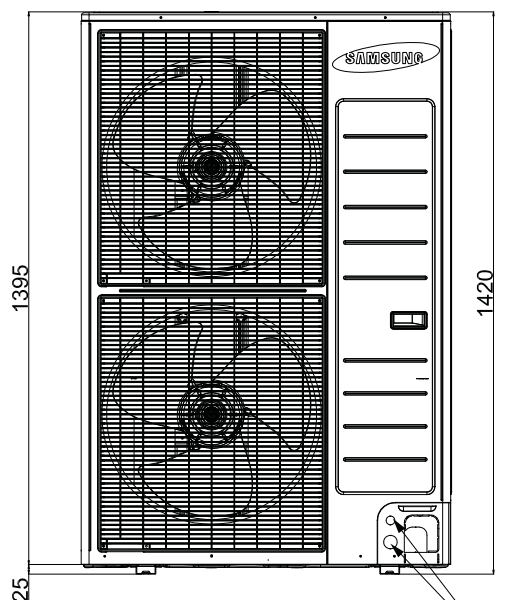
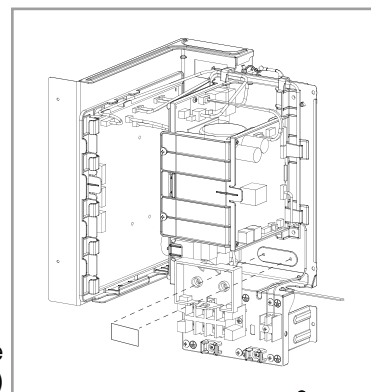


No.	Name		Description		
			10.0kW	12.5kW	14.0kW
①	Gas Ref. Pipe	Ø, mm (inch)	15.88 (5/8)		
②	Liquid Ref. Pipe	Ø, mm (inch)	9.52 (3/8)		
③	Condensate Drain Holes	Ø, mm	20 x 4		
④	Power & Communication Wiring Holes	Ø, mm	22.2 x 3 / 34.5 x 3		

7) RC100ZHXE*, RC140PHXE/G*



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	



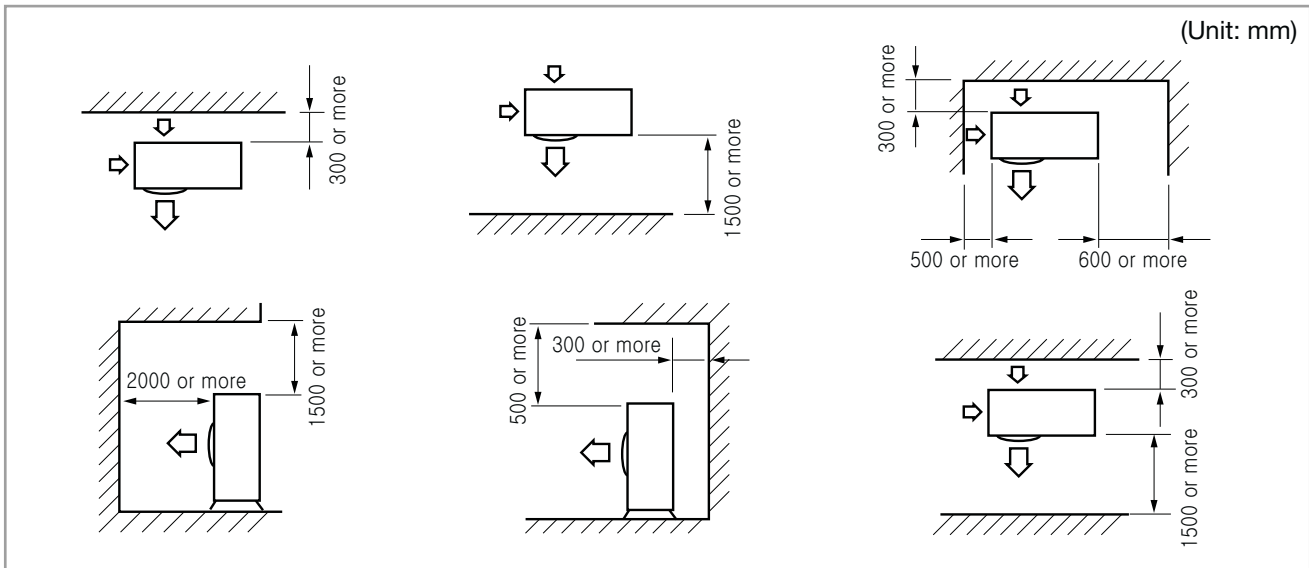
Specifications

III. Installation

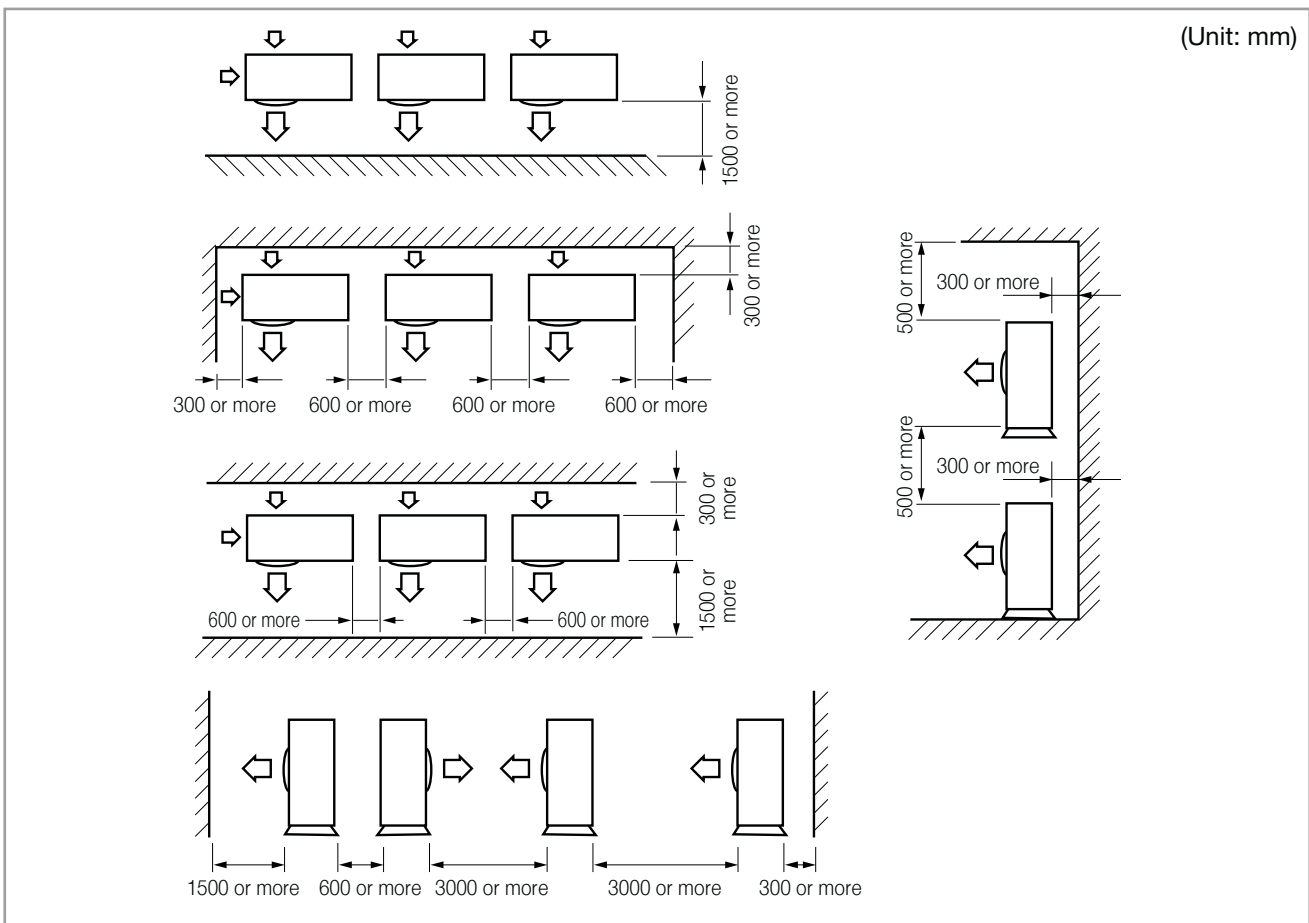
1	Space requirements	166
2	Electric specifications	167
3	Wiring works	168
4	Refrigerant piping works	171
5	Option switches & function keys	174
6	High ceiling option (4 way cassette S only)	177
7	Setting an indoor unit address & installation option...	178
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1 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	SH026EAV1	UH026EAV1	50	220-240	198	264	8.9	10.5
	SH035EAV1	UH035EAV1	50	220-240	198	264	8.9	10.5
Mini 4Way Cassette	TH026EAV1	UH026EAV1	50	220-240	198	264	8.9	10.5
	TH035EAV1	UH035EAV1	50	220-240	198	264	8.9	10.5
	TH052EAV1	UH052EAV1	50	220-240	198	264	18.5	22.5
	TH060EAV1	UH060EAV1	50	220-240	198	264	18.5	22.5
4Way Cassette S	NS0714DXEA	RC071DHXEA	50	220-240	198	264	20.6	25
	NS0714PXE	RC071PHXEA	50	220-240	198	264	20.6	25
	NS0904DXEA	RC090DHXEA	50	220-240	198	264	24.7	30
	NS0904PXE	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
	NS1004PXE	RC100PHXEA	50	220-240	198	264	25	30
		RC100PHXGA	50	380-415	342	456.5	13	15
	NS1004ZXE	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
	NS1254PXE	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
	NS1404PXE	RC140PHXEA	50	220-240	198	264	33	40
		RC140PHXGA	50	380-415	342	456.5	13	15
Slim Duct	NS035LHXEA	UH035EAV1	50	220-240	198	264	9.4	10.5
	NS052LHXEA	UH052EAV1	50	220-240	198	264	19	22.5
	NS071LDXEA	RC071DHXEA	50	220-240	198	264	21	25
MSP Duct	DH052EAV1	UH052EAV1	50	220-240	198	264	19	22.5
	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
	DH052EAS	UH052EAS	50	220-240	198	264	19	22.5
	EH070EAS	UH070EAS	50	220-240	198	264	19	22.5
	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	FH052EAV1	UH052EAV1	50	220-240	198	264	19	22.5
	NS071CDXEA	RC071DHXEA	50	220-240	198	264	21	25
Neo-Forte	NS026NHXEA	UH026EAV1	50	220-240	198	264	8.9	10.5
	NS035NHXEA	UH035EAV1	50	220-240	198	264	8.9	10.5
	NS052NHXEA	UH052EAV1	50	220-240	198	264	18.5	22.5
	NS071NDXEA	RC071DHXEA	50	220-240	198	264	20.5	25

※ Notes

1. Voltage range
 - Units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits
2. Maximum allowable voltage variation between phases is 2%.
3. Wire size & type must comply with the applicable local and national code.
 - Wire size : Based on the value of MCA.
 - Wire type : 60245 IEC57(IEC) or H05RN-F(CENELEC) grade or more.
4. MFA is used to select the circuit breaker and the ground fault circuit interrupter(earth leakage circuit breaker).
5. MCA represents maximum input current.
MFA represents capacity which may accept MCA

※ Abbreviations

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

3-1. Power supply and communication cable configuration

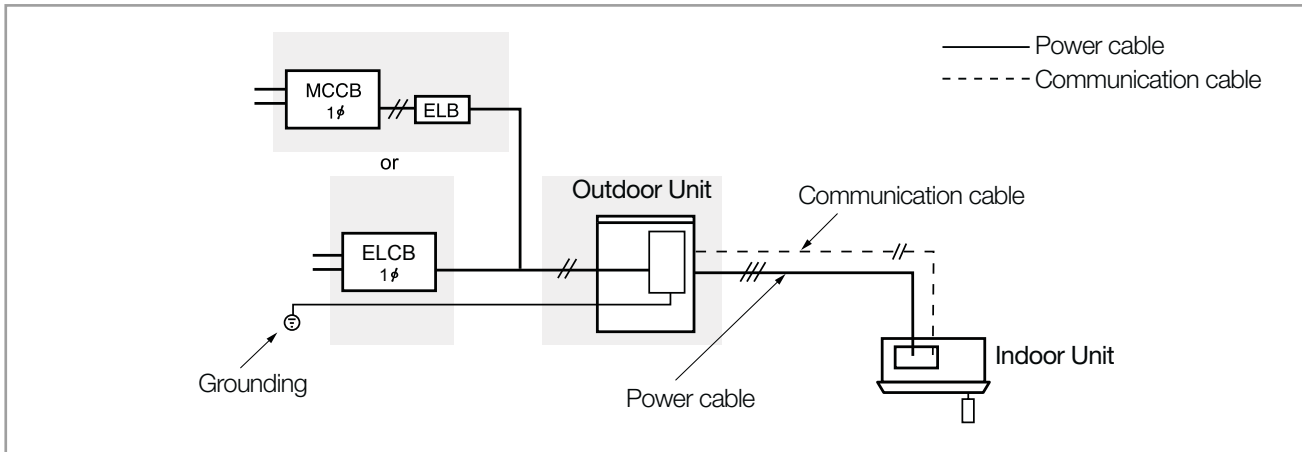
Two electronic cables must be connected to the outdoor unit.

- 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.

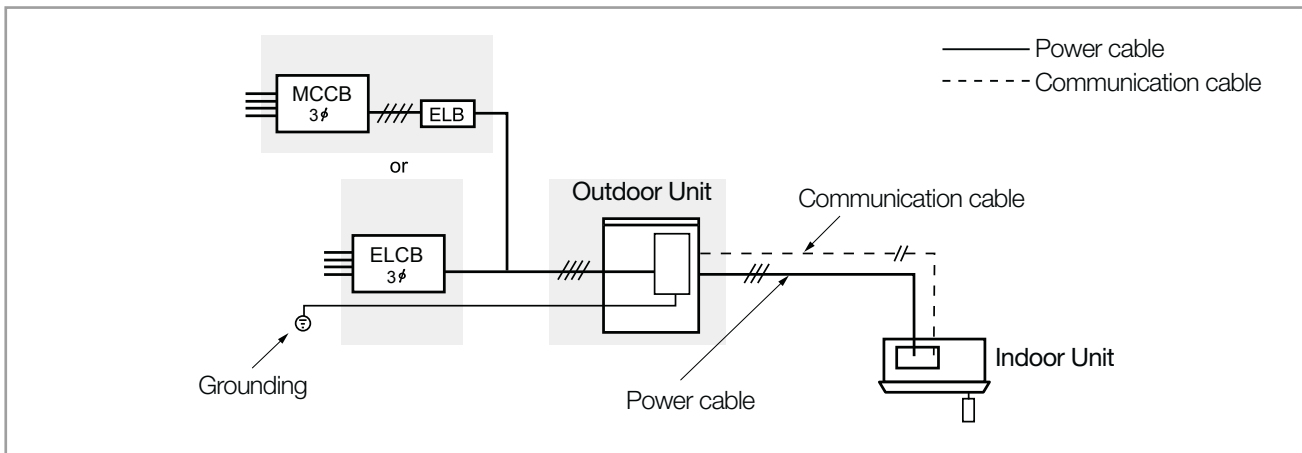
Caution

- ◆ 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



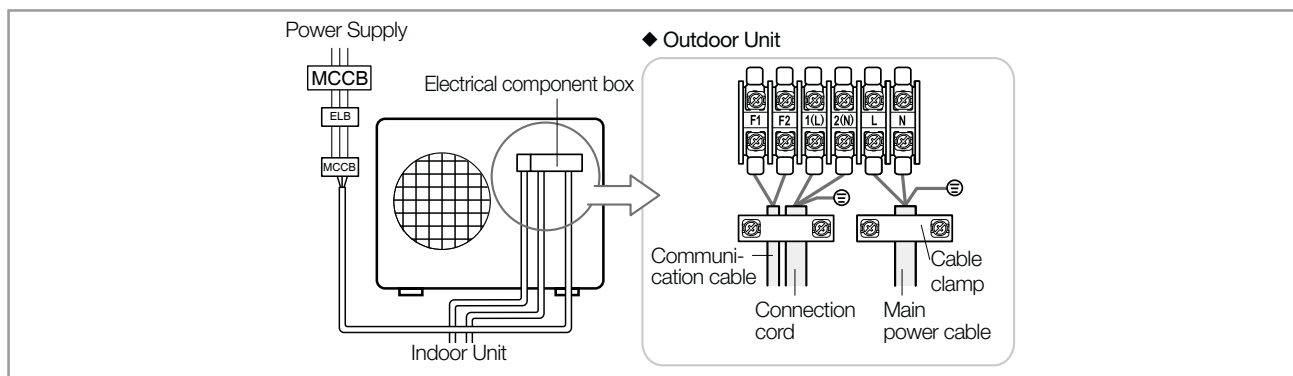
2) When using ELB for 3 phase



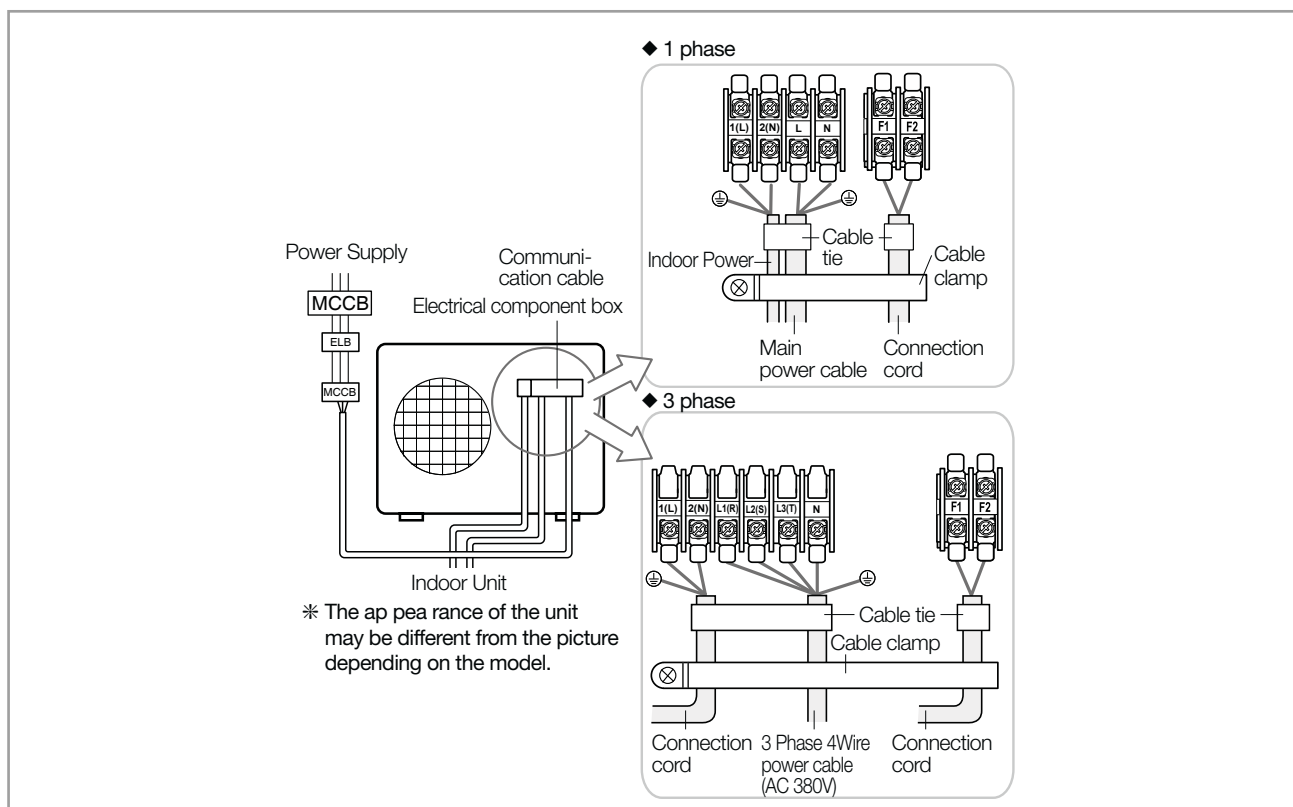
* If an outdoor unit is installed in a place in danger of an electric leak or submergence, you must install the ELB.

3-2. Wiring diagram of power cable

1) UH***EAV/S*



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

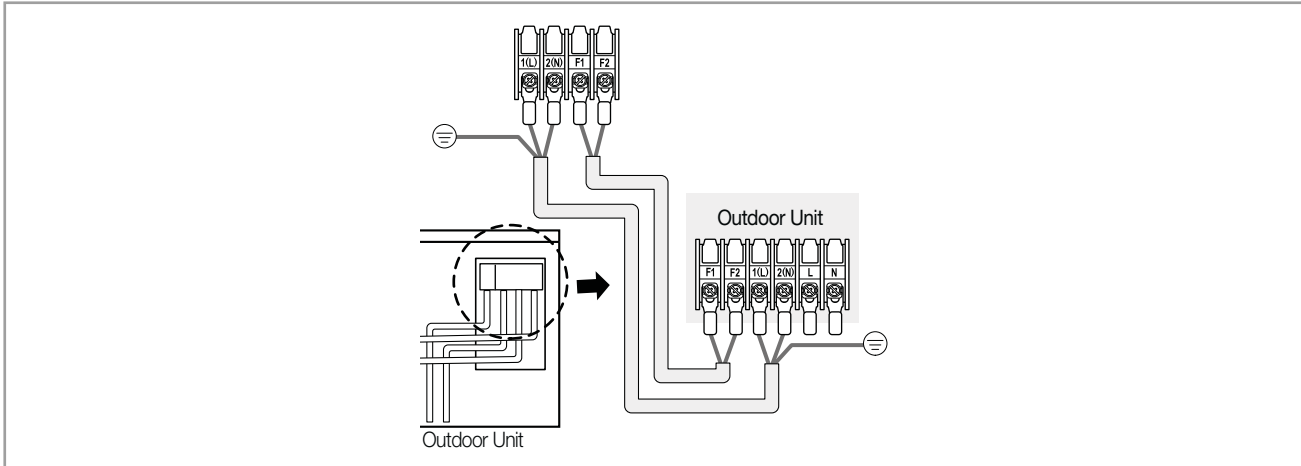


⚠ Caution

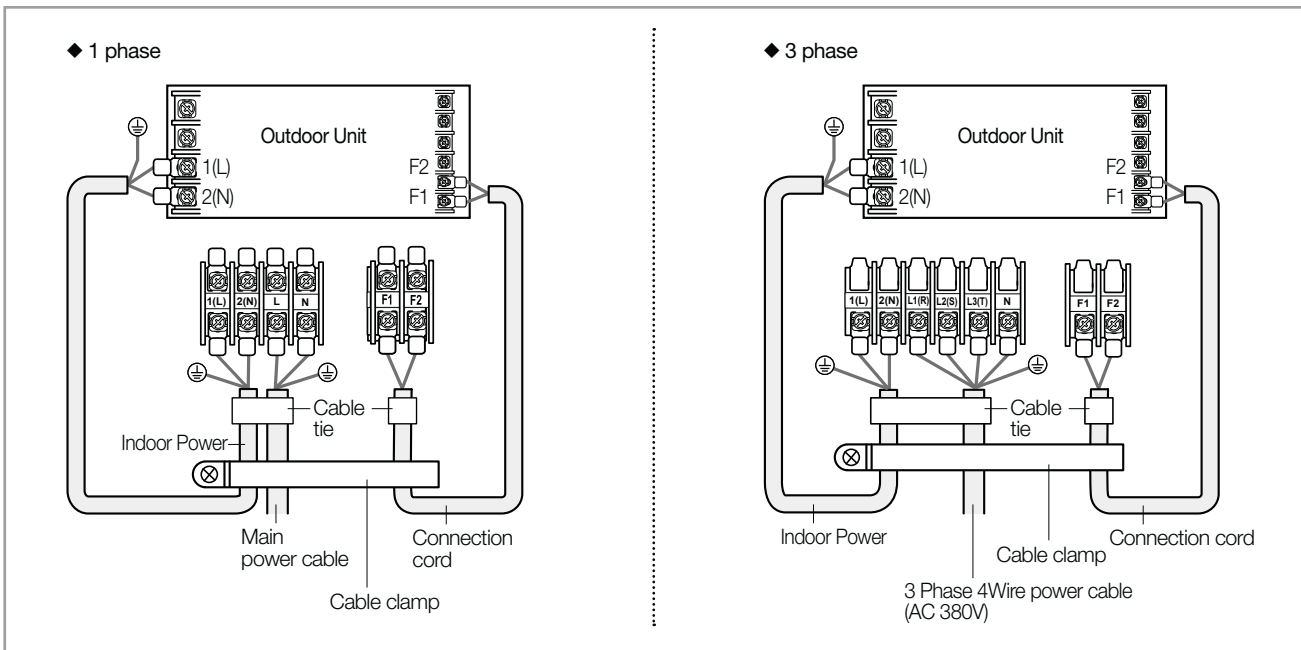
- ◆ You should connect the power cable into the power cable terminal and fasten it with a clamp.
- ◆ The unbalanced power must be maintained within 2% of supply rating.
 - If the power is unbalanced greatly, it may shorten the life of the condenser. If the unbalanced power is exceeded over 4% of supply 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) UH***EAV/S*



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)		Additional Refrigerant	
	Indoor Unit	Outdoor Unit	Liquid	Gas	Max. Length	Max. Height	Chargeless (m)	Additional Ref. Amount (g/m)
Slim 1way Cassette	SH026EAV1	UH026EAV1	6.35 (1/4)	9.52 (3/8)	20	15	20	0
	SH035EAV1	UH035EAV1	6.35 (1/4)	9.52 (3/8)	20	15	20	0
Mini 4Way Cassette	TH026EAV1	UH026EAV1	6.35 (1/4)	9.52 (3/8)	20	15	20	0
	TH035EAV1	UH035EAV1	6.35 (1/4)	9.52 (3/8)	20	15	20	0
	TH052EAV1	UH052EAV1	6.35 (1/4)	12.7 (1/2)	50	30	5	30
	TH060EAV1	UH060EAV1	6.35 (1/4)	15.88 (5/8)	50	30	5	30
4Way Cassette S	NS0714DXEA	RC071DHXEA	6.35 (1/4)	15.88 (5/8)	50	30	5	25
	NS0714PXE	RC071PHXEA	6.35 (1/4)	15.88 (5/8)	50	30	5	25
	NS0904DXEA	RC090DHXEA	9.52 (3/8)	15.88 (5/8)	50	30	30	*1)
	NS0904PXE	RC090PHXEA	9.52 (3/8)	15.88 (5/8)	50	30	30	*1)
	NS1004DXEA	RC100DHXEA	9.52 (3/8)	15.88 (5/8)	50	30	30	*1)
		RC100DHXGA	9.52 (3/8)	15.88 (5/8)	50	30	30	*1)
	NS1004PXE	RC100PHXEA	9.52 (3/8)	15.88 (5/8)	75	30	30	*1)
		RC100PHXGA	9.52 (3/8)	15.88 (5/8)	75	30	30	*1)
	NS1004ZXE	RC100ZHXEA	9.52 (3/8)	15.88 (5/8)	75	30	30	*1)
	NS1254DXEA	RC125DHXEB	9.52 (3/8)	15.88 (5/8)	75	30	30	*1)
		RC125DHXGA	9.52 (3/8)	15.88 (5/8)	75	30	30	*1)
	NS1254PXE	RC125PHXEA	9.52 (3/8)	15.88 (5/8)	75	30	30	*1)
		RC125PHXGA	9.52 (3/8)	15.88 (5/8)	75	30	30	*1)
	NS1404DXEA	RC140DHXEB	9.52 (3/8)	15.88 (5/8)	75	30	30	*1), *2)
		RC140DHXGA	9.52 (3/8)	15.88 (5/8)	75	30	30	*1), *2)
	NS1404PXE	RC140PHXEA	9.52 (3/8)	15.88 (5/8)	75	30	30	*1), *2)
		RC140PHXGA	9.52 (3/8)	15.88 (5/8)	75	30	30	*1), *2)
Slim Duct	NS035LHXEA	UH035EAV1	6.35 (1/4)	9.52 (3/8)	20	15	20	0
	NS052LHXEA	UH052EAV1	6.35 (1/4)	12.7 (1/2)	50	30	5	30
	NS071LDXEA	RC071DHXEA	6.35 (1/4)	15.88 (5/8)	50	30	5	25
MSP Duct	DH052EAV1	UH052EAV1	6.35 (1/4)	12.7 (1/2)	50	30	5	30
	NS071SDXEA	RC071DHXEA	6.35 (1/4)	15.88 (5/8)	50	30	5	25
	NS090SDXEA	RC090DHXEA	9.52 (3/8)	15.88 (5/8)	50	30	30	*1)
	NS100SDXEA	RC100DHXEA	9.52 (3/8)	15.88 (5/8)	50	30	30	*1)
	NS100SDXEA	RC100DHXGA	9.52 (3/8)	15.88 (5/8)	50	30	30	*1)
	NS125SDXEA	RC125DHXEB	9.52 (3/8)	15.88 (5/8)	75	30	30	*1)
	NS125SDXEA	RC125DHXGA	9.52 (3/8)	15.88 (5/8)	75	30	30	*1)
	NS140SDXEA	RC140DHXEB	9.52 (3/8)	15.88 (5/8)	75	30	30	*1)
	NS140SDXEA	RC140DHXGA	9.52 (3/8)	15.88 (5/8)	75	30	30	*1)
	DH052EAS	UH052EAS	6.35 (1/4)	12.7 (1/2)	50	30	5	30
	EH070EAS	UH070EAS	6.35 (1/4)	15.88 (5/8)	50	30	5	30
	NS090SSXEA	RC090SHXEA	9.52 (3/8)	15.88 (5/8)	50	30	5	40
	NS100SSXEA	RC100SHXEA	9.52 (3/8)	15.88 (5/8)	50	30	5	40
Console	JH026EAV1	UH026EAV1	6.35 (1/4)	9.52 (3/8)	20	15	20	0
	JH035EAV1	UH035EAV1	6.35 (1/4)	9.52 (3/8)	20	15	20	0
	JH052EAV1	UH052EAV1	6.35 (1/4)	12.7 (1/2)	50	30	5	30
Ceiling	FH052EAV1	UH052EAV1	6.35 (1/4)	12.7 (1/2)	50	30	5	30
	NS071CDXEA	RC071DHXEA	6.35 (1/4)	15.88 (5/8)	50	30	5	25
Neo-Forte	NS026NHXEA	UH026EAV1	6.35 (1/4)	9.52 (3/8)	20	15	20	0
	NS035NHXEA	UH035EAV1	6.35 (1/4)	9.52 (3/8)	20	15	20	0
	NS052NHXEA	UH052EAV1	6.35 (1/4)	12.7 (1/2)	50	30	5	30
	NS071NDXEA	RC071DHXEA	6.35 (1/4)	15.88 (5/8)	50	30	5	25

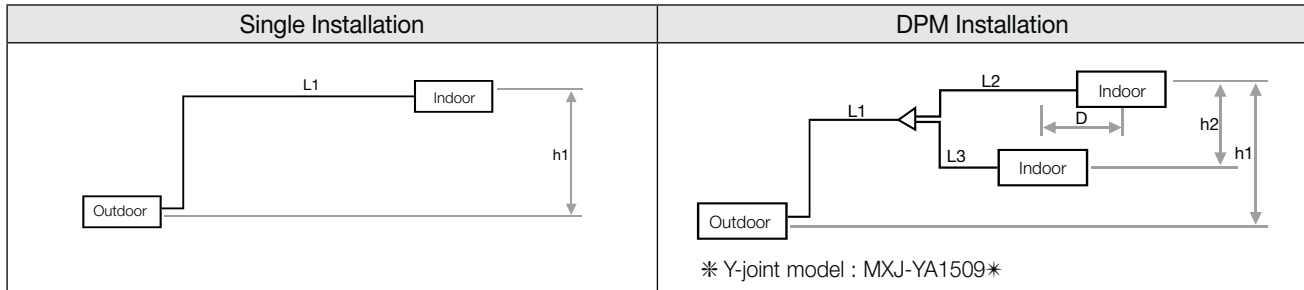
*1) Additional Refrigerant Amount

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 Installation, refer to the "4-3 DPM installation" page.

4 Refrigerant piping works

4-2. Piping diagram



Piping Conditions	Max. Allowable Length (m)	
	Single Installation	DPM Installation
Total Pipe Length (L1 + L2 + L3)	-	75
Main Pipe (L1)	*1)	50
Max. Length between Indoor Units (D)	-	10
Max. Length after branch (L2, L3)	-	15
Max. Height Difference	*1)	± 30
between Outdoor and Indoor Units		
Height Difference between Indoor Units (h2)	-	± 0.5
Pipe Length Difference after branch (L2 - L3)	-	± 1

*1) Refer to the specification sheets of each model.

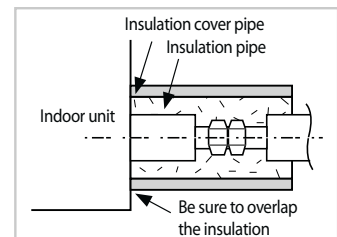
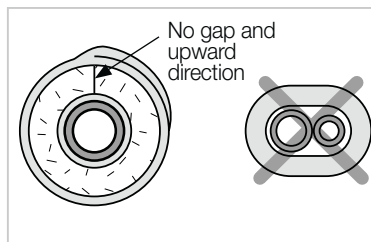
4-3. Insulation

- 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 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, 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			

☑ 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

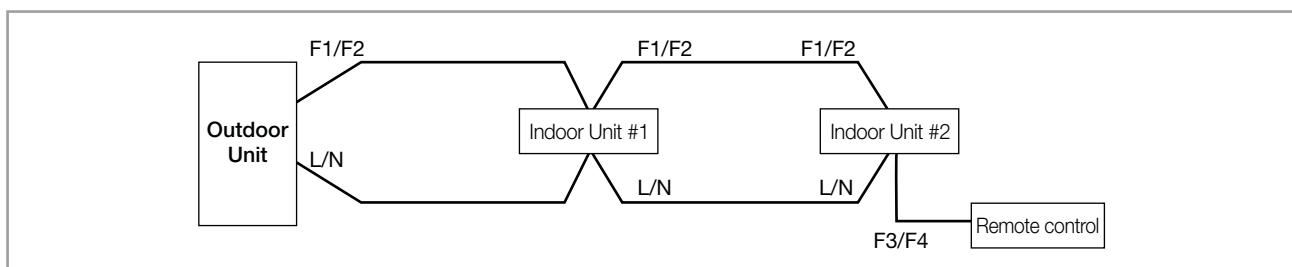
- ◆ Must fit tightly against body without any gap.

4-4. DPM Installation

1) Space requirements

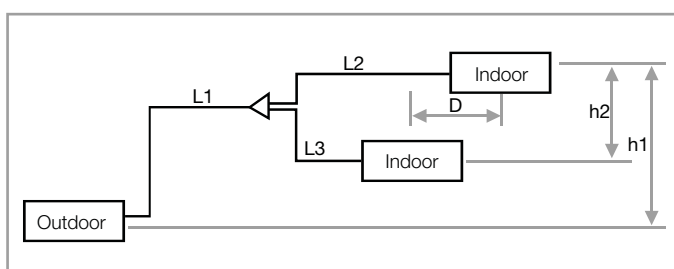
- Two indoor units should be installed in one area which is not divided by a wall.
- The distance between two indoor units should be within a straight-line of 10m.
- After branching, the distance between the piping connected to the two indoor units should be within 1m.
- The height difference between two units should be within 0.5m.

2) Connecting communication line and wired remote controller



* Wired remote controller will be installed in indoor unit #1, #2 or both indoor units.

3) Additional refrigerant charging



Type	Total Length	Additional Refrigerant Amount
DPM	$L1 + L2 + L3 \leq 75\text{m}$	$(L1 - 5) \times 40\text{g} + (L2 + L3) \times 30\text{g}$ If $L1 < 5\text{m}$, $(L2 + L3) \times 30\text{g}$

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.
- 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.

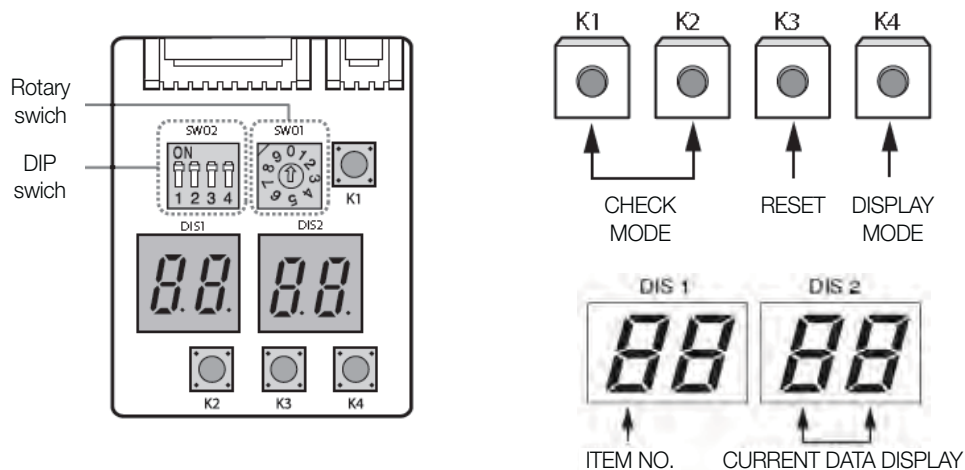
6) Instruction for installation and operation

- 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

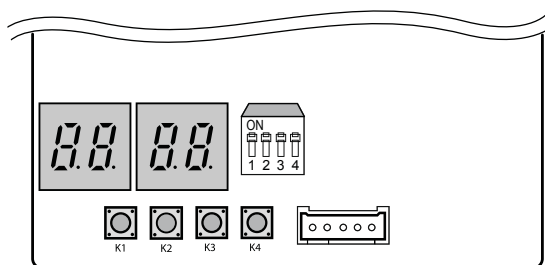
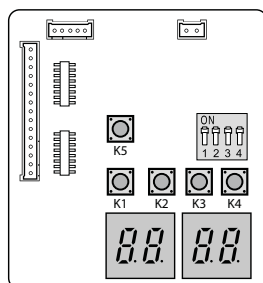
5-1. Key Function

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



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

2) RC071/090/100/125/140D(P,Z,S)HX*



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

2) RC071/090/100/125/140D(P,Z,S)HX*

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	-	-

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

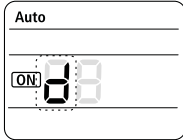
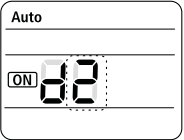
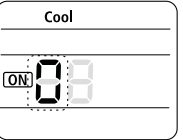
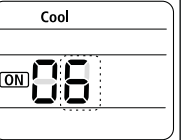
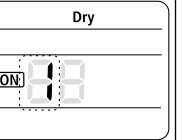
6-1. Allowable ceiling height

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

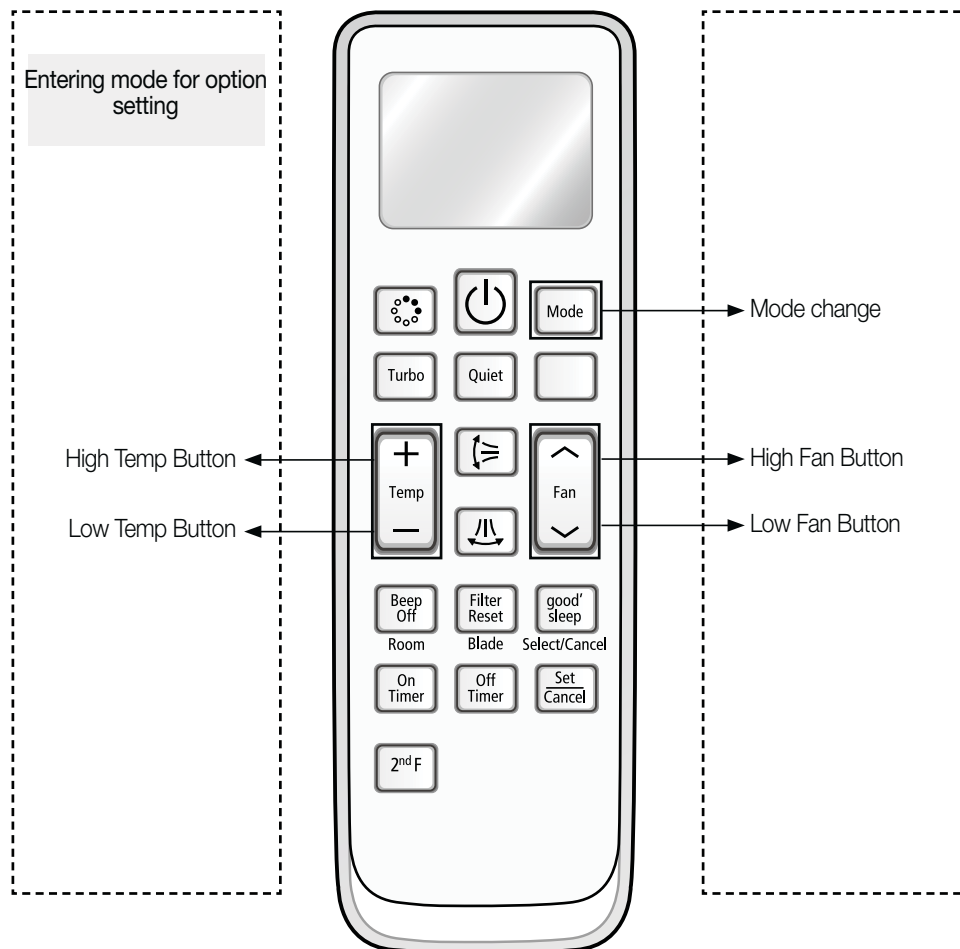
Option	SEG 1	SEG 2	SEG 3	SEG 4	SEG 5	SEG 6
Explanation	PAGE	MODE	The option mode you want to change	The ten's digit of an option SEG you will change	The unit digit of an option SEG you will change	The changed value
Remote controller display	-					
Indication and details	0	D	2	0	6	1

Setting an indoor unit address & installation option

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

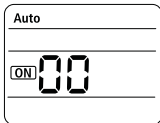
Set the each option separately since you cannot set the ADDRESS setting and indoor unit installation setting option at the same time. You need to set twice when setting indoor unit address and installation option.

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

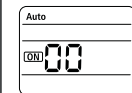
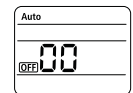
After entering the option setting status, select the option as listed below.

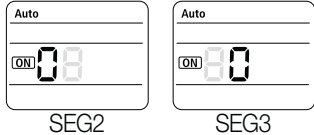
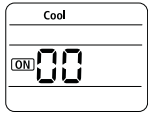
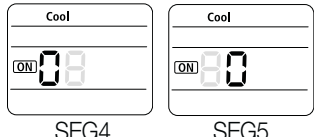
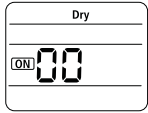
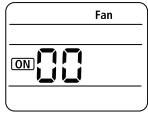
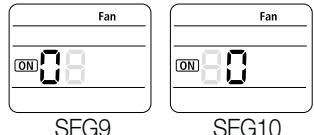
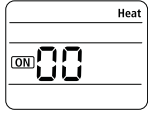
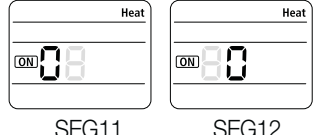
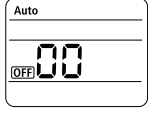
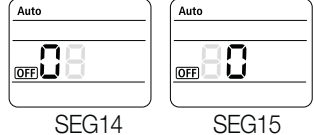


Option setting is available from SEG1 to SEG 24

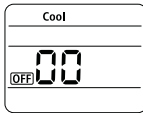
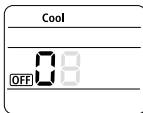
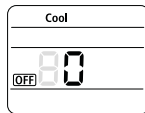
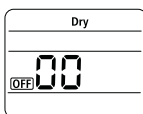
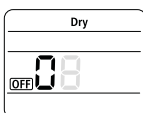
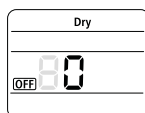
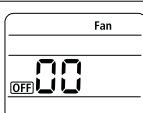
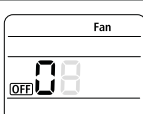
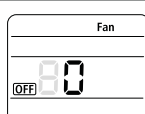
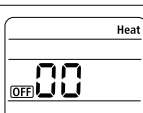
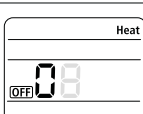
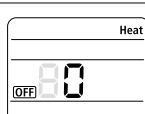
- SEG1, SEG7, SEG13, SEG19 are not set as page option.
- Set the SEG2~SEG6, SEG8~SEG12 as ON status and SEG14~18, SEG20~24 as OFF status.

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)
	

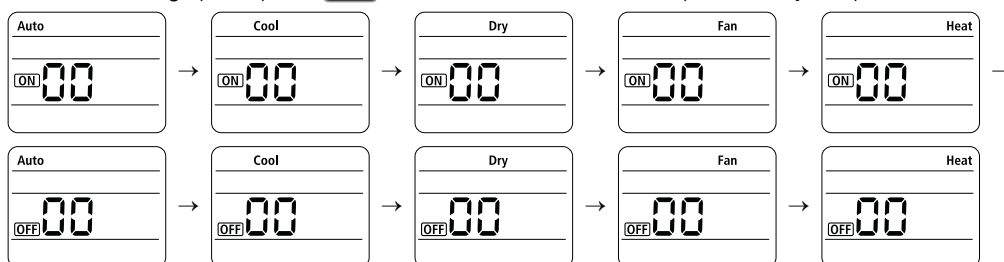
Option setting	Status
1. Setting SEG2, SEG3 option Press Low Fan button(V) to enter SEG2 value. Press High Fan button(Λ) to enter SEG3 value. Each time you press the button, 0 → 1 → ... 8 → 9 will be selected in rotation.	 SEG2 SEG3
2. Setting Cool mode  Press Mode button to be changed to Cool mode in 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 → 9 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 → 9 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 → 9 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 → 9 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 → 9 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(^) to enter SEG17 value. Each time you press the button, 0 → 1 → ... 8 → F 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(^) to enter SEG20 value. Each time you press the button, 0 → 1 → ... 8 → F 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(^) to enter SEG22 value. Each time you press the button, 0 → 1 → ... 8 → F 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(^) to enter SEG24 value. Each time you press the button, 0 → 1 → ... 8 → F 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

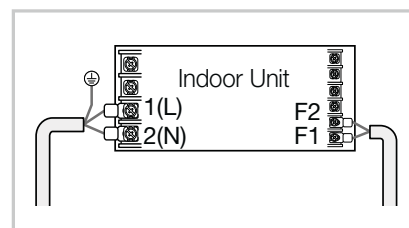
Press operation button  with the direction of remote control for set.
 For the correct option setting, you must input the option twice.

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

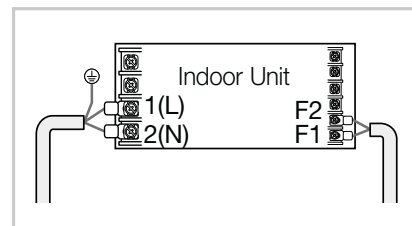
Option	SEG1		SEG2		SEG3		SEG4		SEG5		SEG6	
Explanation	PAGE		MODE		Setting Main address		100-digit of indoor unit address		10-digit of indoor unit		The unit digit of an indoor unit	
Remote Controller Display												
Indication and Details	Indication	Details	Indication	Details	Indication	Details	Indication	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						
					1	RMC address setting mode			RMC1	0~2	RMC2	0~F



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

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

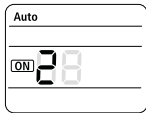
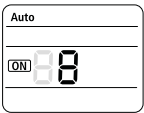
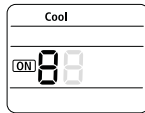
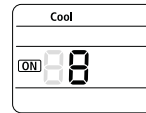
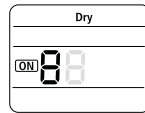
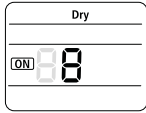
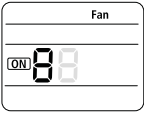
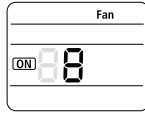
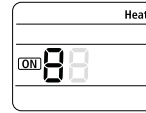
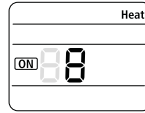
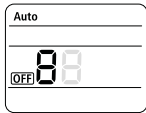
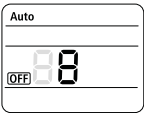
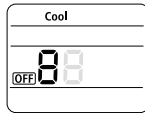
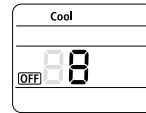
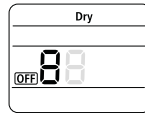
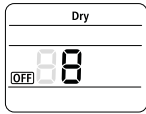
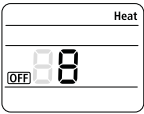
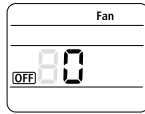
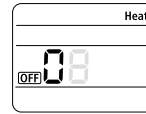
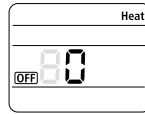
- 1) Check whether power is supplied or not.
- When the indoor unit is not plugged in, there should be additional power supply in the indoor unit.
- 2) The panel(display) should be connected to an indoor unit to receive option.
- 3) Set the installation option according to the installation condition 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.	-	-

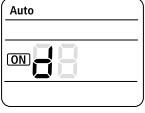
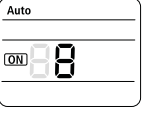
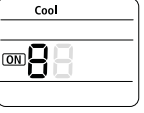
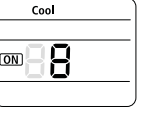
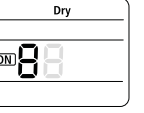
- ▶ 1WAY/2WAY/4WAY MODEL : Drain pump(SEG8) will be set to 'USE + 3minute delay' even if the drain pump is set to 0.
- ▶ 1 WAY/2WAY/4WAY, DUCT MODEL : Number of hours using filter(SEG18) will be set to '1000hour' even if the SEG18 is set to except for 2 or 6.
- ▶ If you input a number other than 0~4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

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

Option	SEG1		SEG2		SEG3		SEG4		SEG5		SEG6	
Explanation	PAGE		MODE		RESERVED		Use of external temperature sensor		Use of central control		FAN RPM compensation	
Remote Controller Display												
Indication and Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details
	0		2				0	Disuse	0	Disuse	0	Disuse
							1	Use	1	Use	1	RPM compensation (High ceiling mode)
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												
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												
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		
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.					
Remote Controller Display												
Indication and Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details
	3		0 or 1	channel 1	0	Disuse	0	150 step				
			2	channel 2	1	2°C	1	0 step				
			3	channel 3	2	5°C						
			4	channel 4								

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



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