CAC
Technical Data Book

CAC Inverter (50Hz)

SAMSUNG

CAC

CAC Technical Data Book

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Products

I. Products

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1 Nomenclature

1-1. Indoor unit

Old Model Name

NS	125	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

4	4 way	Cassette Type
S	MSP duct	Duct Type

④ Mode

P	Premium (Heat Pump)
D	Deluxe (Heat Pump)

⑤ Refrigerant

X	R410A

⑥ Rating Voltage

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

⑦ Version

A~Z	Export

New Model Name

AC	026	F	B	1	D	E	H	/	EU
①	③	②	④	⑤	⑥	⑦	⑧		Buyer

① Classification

AC	CAC

② Capacity

x 1/10 kW (3 digits)

③ Version

E	2012
F	2013
G	2014

④ Product Type

B	Indoor Unit
C	Outdoor Unit

⑤ Product Notation

1	Slim 1 way cassette
N	Mini 4 way cassette
4	4 way cassette
L	LSP Duct (Slim Duct)
M	MSP Duct
C	Ceiling
J	Console
R	Maldives (Wall Mounted)

⑥ Feature

F	Flagship
S	Standard
D	Deluxe
P	Premium

⑦ Rating Voltage

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

⑧ Mode

H	Heat Pump

1-2. Outdoor Unit

Old Model Name

RC	125	D	H	X	E	A	/	000
①	②	③	④	⑤	⑥	⑦		Buyer

① Classification

RC	CAC (Single)

② Capacity

x 1/10 kW (3 digits)

③ Product Notation

P	Inverter Premium
D	Inverter Deluxe

④ Mode

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

New Model Name

AC	026	F	C	1	D	E	H	/	EU
①	③	②	④	⑤	⑥	⑦	⑧		Buyer

① Classification

AC	CAC

② Capacity

x 1/10 kW (3 digits)

③ Version

E	2012
F	2013
G	2014

④ Product Type

B	Indoor Unit
C	Outdoor Unit

⑤ Feature1

A	Inv+Side+General Temp

⑥ Feature2

F	Standrad+Tropical+Non Module
S	Standard
D	Deluxe
P	Premium

⑦ Rating Voltage

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

⑧ Mode

H	Heat Pump

2 Line-up

2-1. Indoor Unit

Type \ Capacity	2.6kW	3.5kW	5.2kW	6.0kW	6.8/7.0/ 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									
SPAIN duct									
Console									
Ceiling									
Maldives									

2-2. Outdoor Unit

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

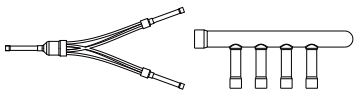
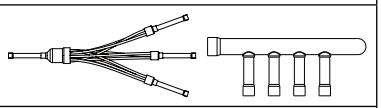
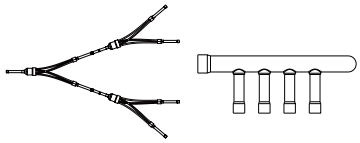
Type		Type \ Capacity	7.0/7.1kW	9.0kW	10.0kW	12.5kW	14.0kW
Smart Inverter	Flagship	1Phase					
	Premium	1Phase					
		3Phase					
	Deluxe	1Phase					
		3Phase					
	Standard	1Phase					

2-3. DPM(Digital Pack Multi)

Capacity	Smart Inverter		Outdoor Unit	Indoor Unit
7.1kW	Premium	1Phase	AC071FCAPEH	AC035FBNDEH x 2
		3Phase	-	-
	Deluxe	1Phase	AC071FCADEH	AC035FBNDEH x 2
		3Phase	-	-
10.0kW	Deluxe	1Phase	AC100FCADEH	AC052FBNDEH x 2
				AC052FB4DEH x 2
				AC035FBNDEH x 3
		3Phase	AC100FCADGH	AC052FBNDEH x 2
				AC052FB4DEH x 2
				AC035FBNDEH x 3
	Premium	1Phase	AC100FCAPEH	AC052FBNDEH x 2
				AC052FB4DEH x 2
				AC035FBNDEH x 3
		3Phase	AC100FCAPGH	AC052FBNDEH x 2
				AC052FB4DEH x 2
				AC035FBNDEH x 3
12.5kW	Deluxe	1Phase	RC125DHXEA	AC060FBNDEH x 2
				AC052FBNDEH x 3
				AC052FB4DEH x 3
		3Phase	RC125DHXGA	AC060FBNDEH x 2
				AC052FBNDEH x 3
				AC052FB4DEH x 3

Capacity	Smart Inverter		Outdoor Unit	Indoor Unit
12.5kW	Premium	1Phase	RC125PHXEA	AC060FBNDEH x 2
				AC052FBNDEH x 3
				AC052FB4DEH x 3
		3Phase	RC125PHXGA	AC060FBNDEH x 2
				AC052FBNDEH x 3
				AC052FB4DEH x 3
14kW	Deluxe	1Phase	RC140DHXE✳	AC071FBNDEH x 2
				AC071FB4DEH x 2
				AC052FBNDEH x 3
				AC035FBNDEH x 4
		3Phase	RC140DHXGA	AC071FBNDEH x 2
				AC071FB4DEH x 2
				AC052FBNDEH x 3
				AC035FBNDEH x 4
	Premium	1Phase	RC140PHXEA	AC071FBNDEH x 2
				AC071FB4DEH x 2
				AC052FBNDEH x 3
				AC035FBNDEH x 4
		3Phase	RC140PHXGA	AC071FBNDEH x 2
				AC071FB4DEH x 2
				AC052FBNDEH x 3
				AC035FBNDEH x 4

3 Accessory

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

Classification	Product	Model	Image
Front Panel	Slim 1 way cassette	PSSMA	
	Slim 1 way cassette	PC1NUPMA	
	Mini 4 way cassette (Stripe Pattern)	PC4SUSMF	
	Mini 4 way cassette	PMSMA	
	4 way cassette S (Waffle Pattern)	PC4NUSKA	
	4 way cassette S (Waffle Pattern, Black)	PC4NBSKA	
	4 way cassette S (Classic Pattern)	PC4NUSKE	
Motion Detect Sensor Kit	Mini 4 way cassette	MCR-SMA	
S-Plasma ion Kit	4way cassette S Mini 4 way cassette	MSD-CAN1	
Drain Pump	Slim duct	MDP-E075SEE3	
	MSP duct (1,150mm x 260(320)mm x 480mm)	MDP-M075SGU1	
	MSP duct (1,200mm x 360mm x 650mm)	MDP-M075SGU2	
	MSP duct (900mm x 260mm x 480mm)	MDP-M075SGU3	

Specifications

II. Specifications

1 Slim 1 way cassette 19
2 Mini 4 way cassette 27
3 4 way cassette S 47
4 Slim duct 83
5 MSP (Middle static pressure) duct 95
6 Console 119
7 Ceiling 131
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Specifications



1 Slim 1 way cassette

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1-1. Specifications

1) Technical specifications

Model Name		Indoor Unit			AC026FB1DEH/EU	AC035FB1DEH/EU
		Outdoor Unit			AC026FCADEH/EU	AC035FCADEH/EU
System	Mode			-	HEAT PUMP	HEAT PUMP
	Capacity	Cooling (Min / Std / Max)		kW	0.98/2.60/3.50	0.98/3.50/4.10
				Btu/h	3,300/8,900/11,900	3,300/11,900/14,000
		Heating (Min / Std / Max)		kW	0.95/3.30/4.60	0.95/4.00/4.75
				Btu/h	3,200/11,300/15,700	3,200/13,600/16,200
	Power	Power Input (Nominal)	Cooling (Min / Std / Max)	kW	0.25/0.74/1.12	0.25/1.16/1.42
			Heating (Min / Std / Max)		0.21/0.91/1.30	0.21/1.16/1.39
		Current Input (Nominal)	Cooling (Min / Std / Max)	A	1.60/3.40/5.20	1.60/5.40/6.60
			Heating (Min / Std / Max)		1.40/4.30/6.40	1.40/5.50/6.80
		MCA		A	10.30 (MCA)	10.30 (MCA)
		MFA		A	12.50	12.50
	Energy Efficiency	EER (Nominal Cooling)		-	3.51	3.02
		COP (Nominal Heating)		-	3.63	3.45
		SEER (Cooling Energy Grade)		-	SEER 5.60 (A+)	SEER 5.40 (A)
		SCOP (Heating Energy Grade)		-	SCOP 3.80 (A)	SCOP 3.80 (A)
		Pdesignh		kW	2.5	2.5
	Piping Connections	Liquid Pipe		Ø, mm	6.35	6.35
				Ø, inch	1/4"	1/4"
		Gas Pipe		Ø, mm	9.52	9.52
				Ø, inch	3/8"	3/8"
		Installation Limitation	Max. Length (Outdoor to indoor)	m	20(25)	20(25)
			Max. Height (Between ID/OD)	m	15(15)	15(15)
	Field Wiring	Power Source Wire		-	1.5 ~ 1.5	1.5 ~ 1.5
		Transmission Cable		-	0.75 ~ 1.25	0.75 ~ 1.25
	Refrigerant	Type		-	R410A	R410A
		Control Method		-	-	-
		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	Crossflow Fan
		Motor	Output	W	20.00	20.00
		Number of Unit		EA	1.00	1.00
		Air Flow Rate	High / Mid / Low	CMM	8.00/7.00/6.00	9.50/8.00/6.50
				l/s	133.33/116.67/100.00	158.33/133.33/108.33
		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	High / Mid / Low	dB(A)	30.00/27.5/25.0	33.00/30.0/27.0
		Sound Power		dB(A)	52	55
	External Dimension	Net Weight		kg	9.90	9.90
		Shipping Weight		kg	12.50	12.50
		Net Dimensions (WxHxD)		mm	970 x 135 x 410	970 x 135 x 410
		Shipping Dimensions (WxHxD)		mm	1173 x 231 x 487	1173 x 231 x 487
	Panel Size	Panel model		-	PSSMA	PSSMA
		Panel Net Weight		kg	3.10	3.10
		Shipping Weight		kg	4.50	4.50
		Net Dimensions (W×H×D)		mm	1180 x 25 x 460	1180 x 25 x 460
		Shipping Dimensions (W×H×D)		mm	1259 x 144 x 539	1259 x 144 x 539
	Additional Accessories	Drain pump	Drain pump	-	-	-
			Max. Lifting Height / Displacement	mm/liter/h	-	-
		Air Filter		-	-	-
Outdoor Unit	Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50
	Compressor	Type		-	Single BLDC Rotary	Single BLDC Rotary
		Model		-	UG4C090LUDJR	UG4C090LUDJR
		Output		kW	0.86	0.86
		Oil	Type	-	POE	POE
			Initial Charge	cc	320.00	320.00
	Fan	Air Flow Rate	Cooling	CMM	29.00	30.00
				l/s	483.33	500.00
	Sound	Sound Pressure	Cooling / Heating	dB(A)	47.0 / 47.0	47.0 / 47.0
		Sound Power		dB(A)	60	62
	External Dimension	Net Weight		kg	33.00	33.00
		Shipping Weight		kg	37.00	37.00
		Net Dimensions (WxHxD)		mm	790 x 548 x 285	790 x 548 x 285
		Shipping Dimensions (WxHxD)		mm	926 x 655 x 382	926 x 655 x 382
	Operating Temp. Range	Cooling		°C	-10~46	-10~46
		Heating		°C	-15~24	-15~24

1-2. Capacity tables

1) AC026FCADEH/EU + AC026FB1DEH/EU

(1) Cooling

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

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)											
		-15			21			35			46		
WB	DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	3.37	2.52	0.40	3.32	2.49	0.86	2.42	1.81	0.69	2.42	1.81	1.16
16	22	3.45	2.59	0.41	3.40	2.55	0.89	2.48	1.86	0.70	2.48	1.86	1.19
18	25	3.53	2.65	0.42	3.48	2.61	0.91	2.54	1.90	0.72	2.54	1.90	1.22
19	27	3.62	2.72	0.43	3.57	2.68	0.93	2.60	1.95	0.74	2.60	1.95	1.25
22	30	3.71	2.78	0.44	3.66	2.74	0.95	2.66	2.00	0.76	2.66	2.00	1.28
24	32	3.80	2.85	0.45	3.74	2.81	0.98	2.73	2.04	0.78	2.73	2.04	1.31

(2) Heating

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

Indoor Temperature(°C)	Outdoor Temperature (°C, DB)							
	-15		-10		7		24	
DB	TC	PI	TC	PI	TC	PI	TC	PI
16	2.36	1.12	2.77	1.09	3.37	0.93	3.59	0.98
18	2.33	1.11	2.75	1.08	3.33	0.92	3.56	0.97
20	2.31	1.10	2.72	1.07	3.30	0.91	3.52	0.96
21	2.29	1.09	2.69	1.06	3.27	0.90	3.48	0.95
22	2.26	1.08	2.67	1.05	3.23	0.89	3.45	0.94
24	2.24	1.07	2.64	1.04	3.20	0.88	3.42	0.93

2) AC035FCADEH/EU + AC035FB1DEH/EU

(1) Cooling

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

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)											
		-15			21			35			46		
WB	DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	3.95	2.96	0.75	3.86	2.89	1.12	3.25	2.44	1.08	2.79	2.09	1.30
16	22	4.05	3.04	0.77	3.95	2.96	1.15	3.33	2.50	1.10	2.86	2.14	1.33
18	25	4.15	3.11	0.79	4.05	3.04	1.18	3.42	2.56	1.13	2.93	2.20	1.37
19	27	4.25	3.19	0.81	4.15	3.11	1.21	3.50	2.63	1.16	3.00	2.25	1.40
22	30	4.35	3.26	0.83	4.25	3.19	1.24	3.58	2.69	1.19	3.07	2.30	1.43
24	32	4.46	3.34	0.85	4.35	3.26	1.27	3.67	2.75	1.22	3.15	2.36	1.47

(2) Heating

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

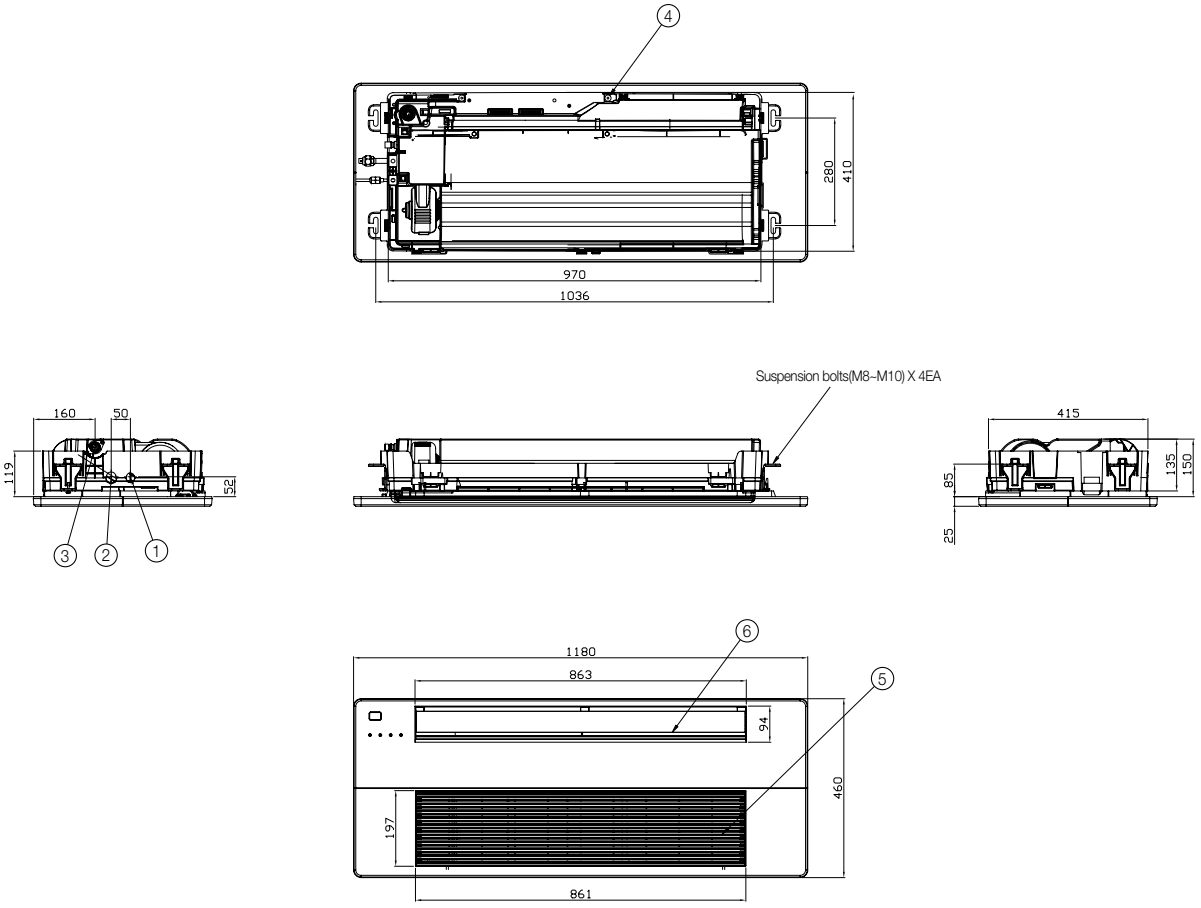
Indoor Temperature(°C)	Outdoor Temperature (°C, DB)							
	-15		-10		7		24	
DB	TC	PI	TC	PI	TC	PI	TC	PI
16	2.56	1.44	3.38	1.41	4.08	1.18	4.36	1.26
18	2.54	1.42	3.34	1.39	4.04	1.17	4.31	1.25
20	2.51	1.41	3.31	1.38	4.00	1.16	4.27	1.24
21	2.48	1.40	3.28	1.37	3.96	1.15	4.23	1.23
22	2.46	1.38	3.24	1.35	3.92	1.14	4.19	1.22
24	2.44	1.37	3.21	1.34	3.88	1.13	4.14	1.20

☑ *Note*

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

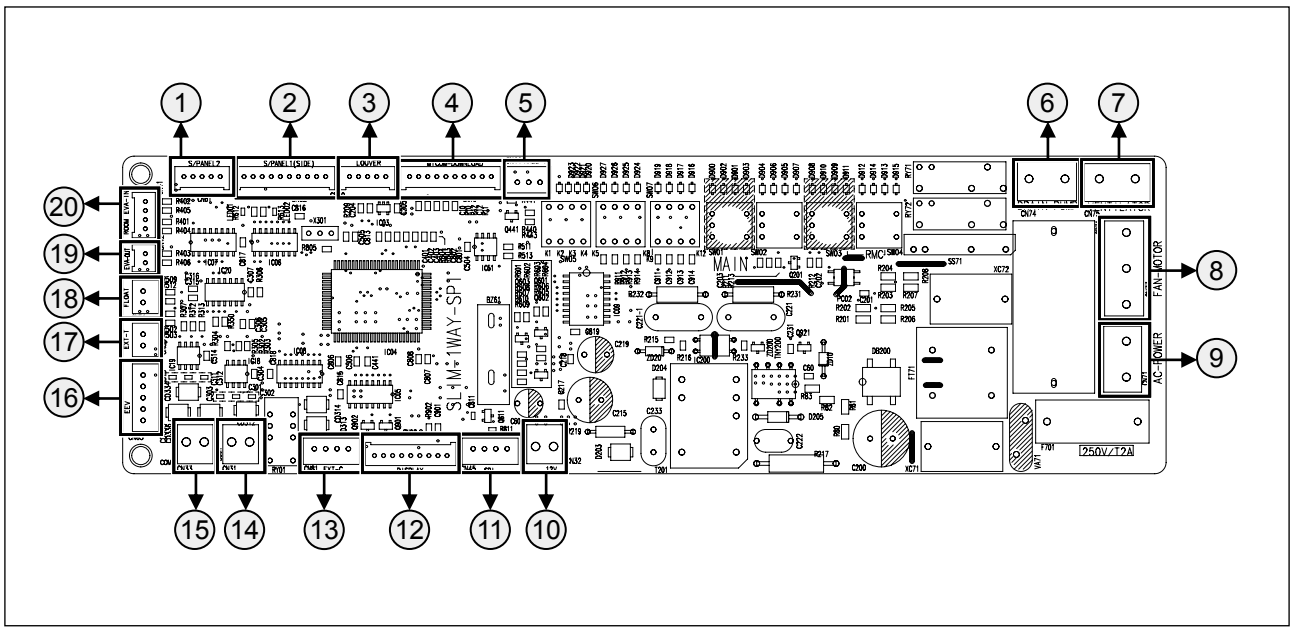
1-3. Dimensional drawing

Unit:mm



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

1-4. PCB connector lay-out



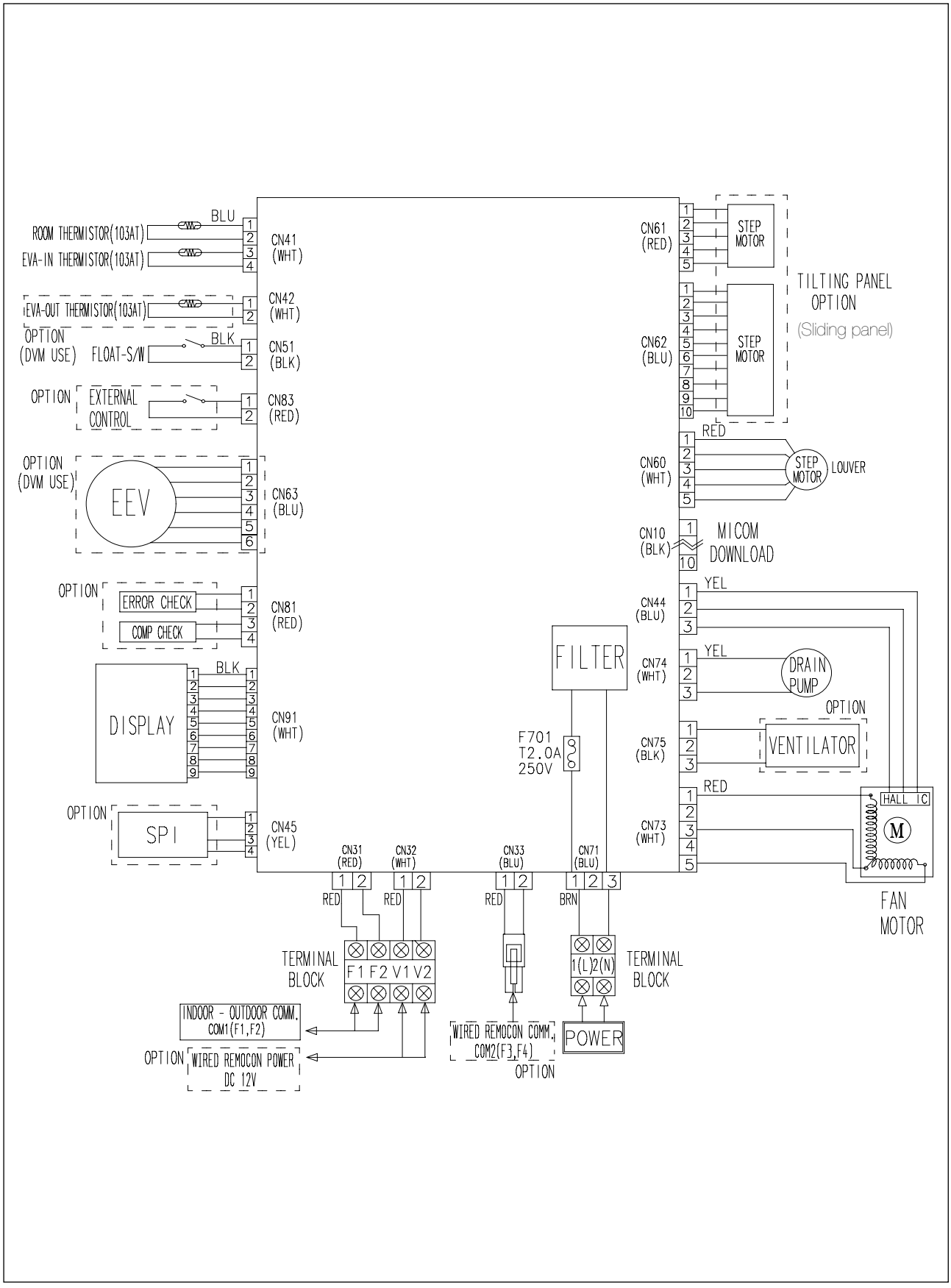
➘ AC

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

➘ DC

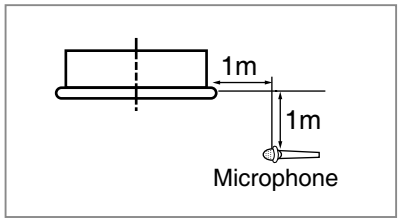
No.	CN #	Color	Function
①	CN61	RED	Sliding Panel2 (Option : Sliding Panel)
②	CN62	BLU	Sliding Panel1 (Option : Sliding Panel)
③	CN60	WHT	Louver
④	CN10	BLK	Micom-Download
⑤	CN44	BLU	Hall-IC(RPM Feedback)
⑩	CN32	WHT	DC12V
⑪	CN45	YEL	SPi
⑫	CN91	WHT	Panel Display
⑬	CN81	RED	Error Check, Oper. Check
⑭	CN31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

1-5. Electrical wiring diagram



1-6. Sound pressure level

1) Operation sound level



Unit : dB(A)

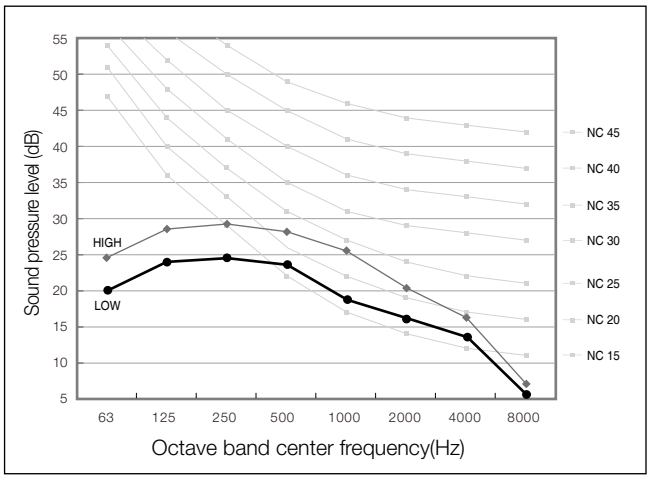
Model	High	Low
AC026FB1DEH/EU	30	25
AC035FB1DEH/EU	33	27

Note

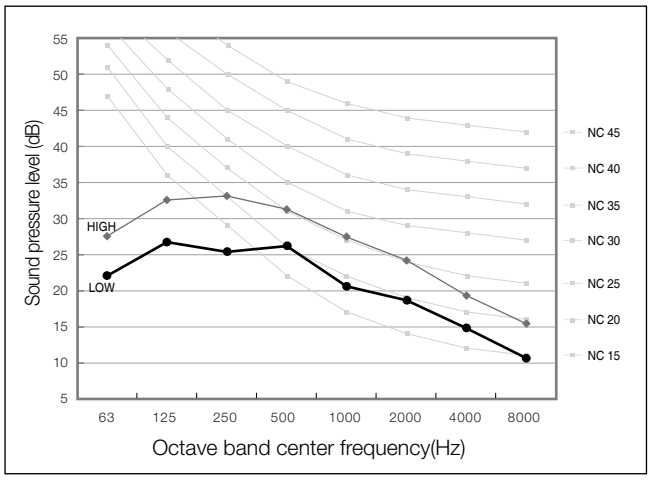
- ◆ These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- ◆ Operation sound level may differ depending on operation and ambient conditions.

2) NC curves

(1) AC026FB1DEH/EU



(2) AC035FB1DEH/EU

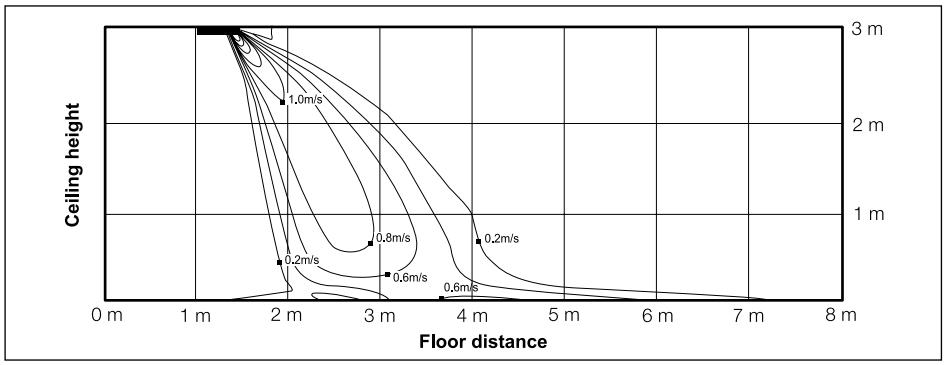


1-7. Temperature and air flow distribution

1) AC035FB1DEH/EU

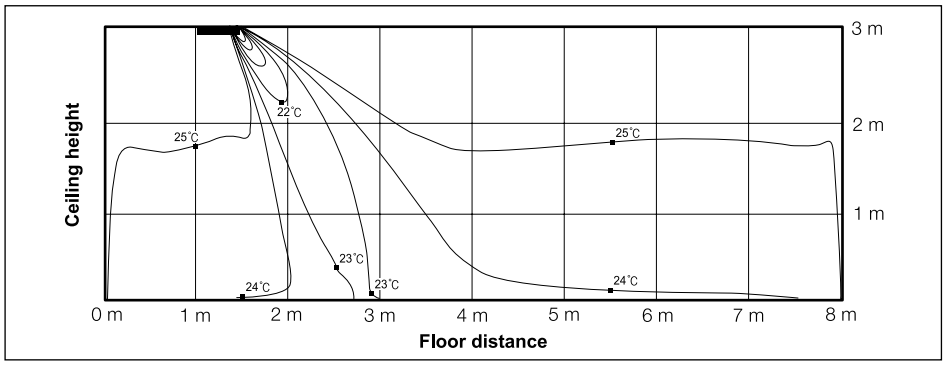
(1) Cooling air velocity distribution

◆ Discharge angle : 60°



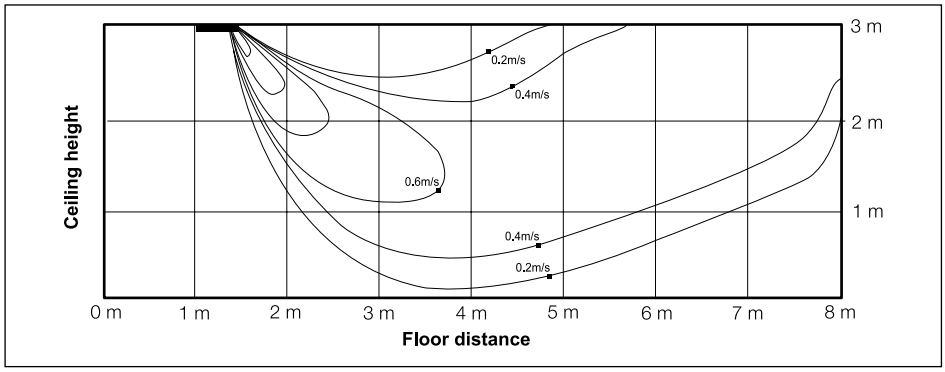
(2) Cooling temperature distribution

◆ Discharge angle : 60°



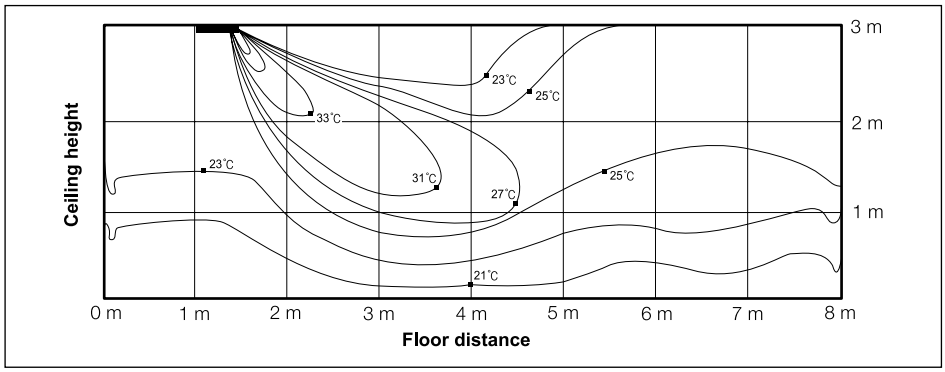
(3) Heating air velocity distribution

◆ 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			AC026FBNDEH/EU	AC035FBNDEH/EU	AC052FBNDEH/EU	AC060FBNDEH/EU	AC071FBNDEH/EU
		Outdoor Unit			AC026FCADEH/EU	AC035FCADEH/EU	AC052FCADEH/EU	AC060FCADEH/EU	AC071FCADEH/EU
System	Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP
	Capacity	Cooling (Min / Std / Max)		kW	0.99/2.60/3.50	0.99/3.50/4.20	1.30/5.00/5.90	1.80/5.80/6.50	2.00/6.80/7.50
				Btu/h	3,400/8,900/11,900	3,400/11,900/14,300	4,400/17,100/20,100	6,100/19,800/22,200	6,800/23,200/25,600
		Heating (Min / Std / Max)		kW	0.98/3.30/4.60	0.98/4.00/5.00	1.30/5.50/7.50	1.60/7.00/9.00	1.60/7.50/10.00
				Btu/h	3,300/11,300/15,700	3,300/13,600/17,100	4,400/18,800/25,600	5,500/23,900/30,700	5,500/25,600/34,100
	Power	Power Input (Nominal)	Cooling (Min / Std / Max)	kW	0.23/0.73/1.13	0.24/1.09/1.45	0.31/1.66/2.10	0.38/1.81/2.60	0.39/2.26/2.60
			Heating (Min / Std / Max)		0.18/0.90/1.40	0.18/1.11/1.40	0.35/1.61/2.40	0.35/2.18/3.60	0.35/2.41/3.80
		Current Input (Nominal)	Cooling (Min / Std / Max)	A	1.60/3.70/5.50	1.60/5.60/6.80	2.60/7.50/9.50	1.90/8.30/11.50	1.90/10.20/11.50
			Heating (Min / Std / Max)		1.20/4.60/6.60	1.20/5.70/6.70	2.90/7.50/11.00	1.70/10.00/17.30	1.70/10.70/17.60
		MCA		A	10.30 (MCA)	10.30 (MCA)	10.80 (MCA)	20.30 (MCA)	20.30 (MCA)
		MFA		A	12.50	12.50	13.13	25.00	25.00
	Energy Efficiency	EER (Nominal Cooling)		-	3.56	3.21	3.01	3.20	3.01
		COP (Nominal Heating)		-	3.67	3.60	3.42	3.21	3.11
		SEER (Cooling Energy Grade)		-	SEER 6.70 (A++)	SEER 6.50 (A++)	SEER 6.30 (A++)	SEER 6.20 (A++)	SEER 6.10 (A++)
		SCOP (Heating Energy Grade)		-	SCOP 4.00 (A+)	SCOP 4.00 (A+)	SCOP 3.80 (A)	SCOP 3.80 (A)	SCOP 3.80 (A)
		Pdesignh		kW	2.4	2.4	3.1	4.8	4.8
	Piping Connections	Liquid Pipe		Ø, mm	6.35	6.35	6.35	6.35	6.35
				Ø, inch	1/4"	1/4"	1/4"	1/4"	1/4"
		Gas Pipe		Ø, mm	9.52	9.52	12.70	15.88	15.88
				Ø, inch	3/8"	3/8"	1/2"	5/8"	5/8"
		Installation Limitation	Max. Length (Outdoor to indoor)	m	20(25)	20(25)	30(35)	50(55)	50(55)
			Max. Height (Between ID/OD)	m	15(15)	15(15)	20(20)	30(30)	30(30)
	Field Wiring	Power Source Wire		-	2.5	2.5	2.5	2.5	2.5
		Transmission Cable		-	0.75 ~ 1.25	0.75 ~ 1.25	0.75 ~ 1.25	0.75 ~ 1.25	0.75 ~ 1.25
	Refrigerant	Type		-	R410A	R410A	R410A	R410A	R410A
		Control Method		-	-	-	-	-	-
		Factory Charging		kg	0.95	0.95	1.40	1.80	1.80
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	Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan
		Motor	Output	W	65.00	65.00	65.00	65.00	65.00
		Number of Unit		EA	1.00	1.00	1.00	1.00	1.00
		Air Flow Rate	High / Mid / Low	CMM	8.50/7.50/6.50	9.50/8.00/6.50	12.00/10.50/9.00	11.00/10.00/9.00	11.50/10.50/9.50
				l/s	141.67/125.00/108.33	158.33/133.33/108.33	200.00/175.00/150.00	183.33/166.67/150.00	191.67/175.00/158.33
		External Static Pressure	Min / Std / Max	mmAq	-	-	-	-	-
				Pa	-	-	-	-	-
	Drain	Drain Pipe		Ø,mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
	Sound	Sound Pressure	High / Mid / Low	dB(A)	33.00/31.0/27.0	35.00/33.0/29.0	39.00/37.0/34.0	41.00/38.0/35.0	42.00/40.0/36.0
		Sound Power		dB(A)	48	50	53	56	58
	External Dimension	Net Weight		kg	11.00	11.00	11.70	12.00	12.00
		Shipping Weight		kg	13.00	13.00	13.70	14.00	14.00
		Net Dimensions (WxHxD)		mm	575 x 250 x 575	575 x 250 x 575	575 x 250 x 575	575 x 250 x 575	575 x 250 x 575
		Shipping Dimensions (WxHxD)		mm	623 x 298 x 653	623 x 298 x 653	623 x 298 x 653	623 x 298 x 653	623 x 298 x 653
	Panel Size	Panel model		-	PC4SUSMB	PC4SUSMB	PC4SUSMB	PC4SUSMB	PC4SUSMB
		Panel Net Weight		kg	2.70	2.70	2.70	2.70	2.70
		Shipping Weight		kg	4.20	4.20	4.20	4.20	4.20
		Net Dimensions (W×H×D)		mm	670 x 45 x 670	670 x 45 x 670	670 x 45 x 670	670 x 45 x 670	670 x 45 x 670
		Shipping Dimensions (W×H×D)		mm	714 x 106 x 724	714 x 106 x 724	714 x 106 x 724	714 x 106 x 724	714 x 106 x 724
	Additional Accessories	Drain pump	Drain pump	-	-	-	-	-	-
			Max. Lifting Height / Displacement	mm/liter/h	-	-	-	-	-
		Air Filter		-	-	-	-	-	-
Outdoor Unit	Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50
	Compressor	Type		-	Single BLDC Rotary	Single BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary
		Model		-	UG4C090LUDJR	UG4C090LUDJR	UG4T150FUDJQ	UG4T200FUAE4SG	UG4T200FUAE4SG
		Output		kW	0.86	0.86	1.37	1.79	1.79
		Oil	Type	-	POE	POE	POE	POE	POE
			Initial Charge	cc	320.00	320.00	650.00	650.00	650.00
	Fan	Air Flow Rate	Cooling	CMM	29.00	30.00	33.00	50.00	52.00
				l/s	483.33	500.00	550.00	833.33	866.67
	Sound	Sound Pressure	Cooling / Heating	dB(A)	46.0 / 47.0	47.0 / 48.0	48.0 / 49.0	49.0 / 50.0	49.0 / 51.0
		Sound Power		dB(A)	60	62	64	64	66
	External Dimension	Net Weight		kg	33.00	33.00	38.50	55.00	55.00
		Shipping Weight		kg	37.00	37.00	42.50	59.00	59.00
		Net Dimensions (WxHxD)		mm	790 x 548 x 285	790 x 548 x 285	790 x 548 x 285	880 x 798 x 310	880 x 798 x 310
		Shipping Dimensions (WxHxD)		mm	926 x 655 x 382	926 x 655 x 382	926 x 655 x 382	1023 x 891 x 413	1023 x 891 x 413
	Operating Temp. Range	Cooling		℃	-10~46	-10~46	-10~46	-15~46	-15~50
		Heating		℃	-15~24	-15~24	-15~24	-20~24	-20~24

2-2. Capacity tables

1) AC026FCADEH/EU + AC026FBNDEH/EU

(1) Cooling

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

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)											
		-15			21			35			46		
WB	DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	2.98	2.24	0.60	2.89	2.17	0.51	2.42	1.81	0.68	2.33	1.75	1.21
16	22	3.06	2.29	0.62	2.96	2.22	0.52	2.48	1.86	0.70	2.39	1.79	1.24
18	25	3.13	2.35	0.63	3.04	2.28	0.54	2.54	1.90	0.71	2.45	1.84	1.27
19	27	3.21	2.41	0.65	3.11	2.33	0.55	2.60	1.95	0.73	2.51	1.88	1.30
22	30	3.29	2.47	0.67	3.18	2.39	0.56	2.66	2.00	0.75	2.57	1.93	1.33
24	32	3.37	2.52	0.68	3.26	2.45	0.58	2.73	2.04	0.77	2.63	1.97	1.36

(2) Heating

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

Indoor Temperature(°C)	Outdoor Temperature (°C, DB)							
	-15		-10		7		24	
DB	TC	PI	TC	PI	TC	PI	TC	PI
16	2.37	1.07	2.70	1.12	3.37	0.92	4.19	1.04
18	2.34	1.06	2.68	1.11	3.33	0.91	4.15	1.03
20	2.32	1.05	2.65	1.10	3.30	0.90	4.11	1.02
21	2.30	1.04	2.62	1.09	3.27	0.89	4.07	1.01
22	2.27	1.03	2.60	1.08	3.23	0.88	4.03	1.00
24	2.25	1.02	2.57	1.07	3.20	0.87	3.99	0.99

2) AC035FCADEH/EU + AC035FBNDEH/EU

(1) Cooling

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

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)											
		-15			21			35			46		
WB	DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	3.58	2.68	0.85	3.37	2.52	0.88	3.25	2.44	1.01	2.61	1.96	1.28
16	22	3.67	2.75	0.87	3.45	2.59	0.90	3.33	2.50	1.04	2.68	2.01	1.31
18	25	3.76	2.82	0.89	3.53	2.65	0.93	3.42	2.56	1.06	2.74	2.06	1.35
19	27	3.85	2.89	0.91	3.62	2.72	0.95	3.50	2.63	1.09	2.81	2.11	1.38
22	30	3.94	2.96	0.93	3.71	2.78	0.97	3.58	2.69	1.12	2.88	2.16	1.41
24	32	4.04	3.03	0.95	3.80	2.85	1.00	3.67	2.75	1.14	2.95	2.21	1.45

(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	2.46	1.14	3.08	1.28	4.10	1.13	5.08	1.28
18	2.43	1.13	3.05	1.26	4.06	1.12	5.03	1.26
20	2.41	1.12	3.02	1.25	4.02	1.11	4.98	1.25
21	2.39	1.11	2.99	1.24	3.98	1.10	4.93	1.24
22	2.36	1.10	2.96	1.23	3.94	1.09	4.88	1.23
24	2.34	1.09	2.93	1.21	3.90	1.08	4.83	1.21

☑ *Note*

◆ Ratings shown are net capacities.

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

2-2. Capacity tables

3) AC052FCADEH/EU + AC052FBNDEH/EU

(1) Cooling

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

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)											
		-15			21			35			46		
WB	DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	4.98	3.74	1.26	4.89	3.67	1.12	4.65	3.49	1.54	3.62	2.71	1.73
16	22	5.11	3.83	1.29	5.01	3.76	1.15	4.76	3.57	1.58	3.71	2.78	1.77
18	25	5.23	3.92	1.32	5.13	3.85	1.18	4.88	3.66	1.62	3.80	2.85	1.82
19	27	5.36	4.02	1.35	5.26	3.95	1.21	5.00	3.75	1.66	3.89	2.92	1.86
22	30	5.49	4.12	1.38	5.39	4.04	1.24	5.12	3.84	1.70	3.98	2.99	1.90
24	32	5.62	4.22	1.42	5.52	4.14	1.27	5.24	3.93	1.74	4.08	3.06	1.95

(2) Heating

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

Indoor Temperature(°C)	Outdoor Temperature (°C, DB)							
	-15		-10		7		24	
DB	TC	PI	TC	PI	TC	PI	TC	PI
16	4.28	2.09	4.67	1.95	5.61	1.55	6.38	1.57
18	4.24	2.07	4.63	1.93	5.56	1.54	6.31	1.56
20	4.20	2.05	4.58	1.91	5.50	1.52	6.25	1.54
21	4.16	2.03	4.53	1.89	5.45	1.50	6.19	1.52
22	4.12	2.01	4.49	1.87	5.39	1.49	6.13	1.51
24	4.08	1.99	4.44	1.85	5.34	1.47	6.06	1.49

4) AC060FCADEH/EU + AC060FBNDEH/EU

(1) Cooling

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

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)											
		-15			21			35			46		
WB	DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	6.29	4.72	1.53	6.08	4.56	1.59	5.39	4.04	1.68	5.15	3.86	2.59
16	22	6.45	4.84	1.57	6.23	4.67	1.63	5.52	4.14	1.72	5.28	3.96	2.66
18	25	6.61	4.96	1.61	6.38	4.79	1.67	5.66	4.25	1.77	5.41	4.06	2.72
19	27	6.77	5.08	1.65	6.54	4.91	1.71	5.80	4.35	1.81	5.54	4.16	2.79
22	30	6.93	5.20	1.69	6.70	5.02	1.75	5.94	4.45	1.85	5.67	4.25	2.86
24	32	7.10	5.32	1.73	6.86	5.14	1.79	6.08	4.56	1.90	5.81	4.36	2.93

(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	5.25	2.90	6.14	2.88	7.14	2.22	8.42	2.30
18	5.20	2.87	6.08	2.85	7.07	2.20	8.33	2.27
20	5.15	2.84	6.02	2.82	7.00	2.18	8.25	2.25
21	5.10	2.81	5.96	2.79	6.93	2.16	8.17	2.23
22	5.05	2.78	5.90	2.76	6.86	2.14	8.09	2.21
24	5.00	2.76	5.84	2.74	6.79	2.12	8.00	2.18

☑ *Note*

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

5) AC071FCADEH/EU + AC071FBNDEH/EU

(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	6.74	5.39	1.43	6.83	5.47	1.53	6.32	5.06	1.95	5.22	4.18	2.38	3.82	3.06	2.62
16	22	6.91	5.52	1.47	7.00	5.60	1.57	6.48	5.18	2.00	5.35	4.28	2.44	3.92	3.13	2.69
18	25	7.08	5.66	1.50	7.17	5.74	1.61	6.64	5.31	2.05	5.49	4.39	2.50	4.01	3.21	2.75
19	27	7.25	5.80	1.54	7.35	5.88	1.65	6.80	5.44	2.10	5.62	4.50	2.56	4.11	3.29	2.82
22	30	7.42	5.94	1.58	7.53	6.02	1.69	6.96	5.57	2.15	5.75	4.60	2.62	4.21	3.37	2.89
24	32	7.60	6.08	1.61	7.71	6.17	1.73	7.13	5.70	2.20	5.89	4.71	2.68	4.31	3.45	2.96

(2) Heating

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

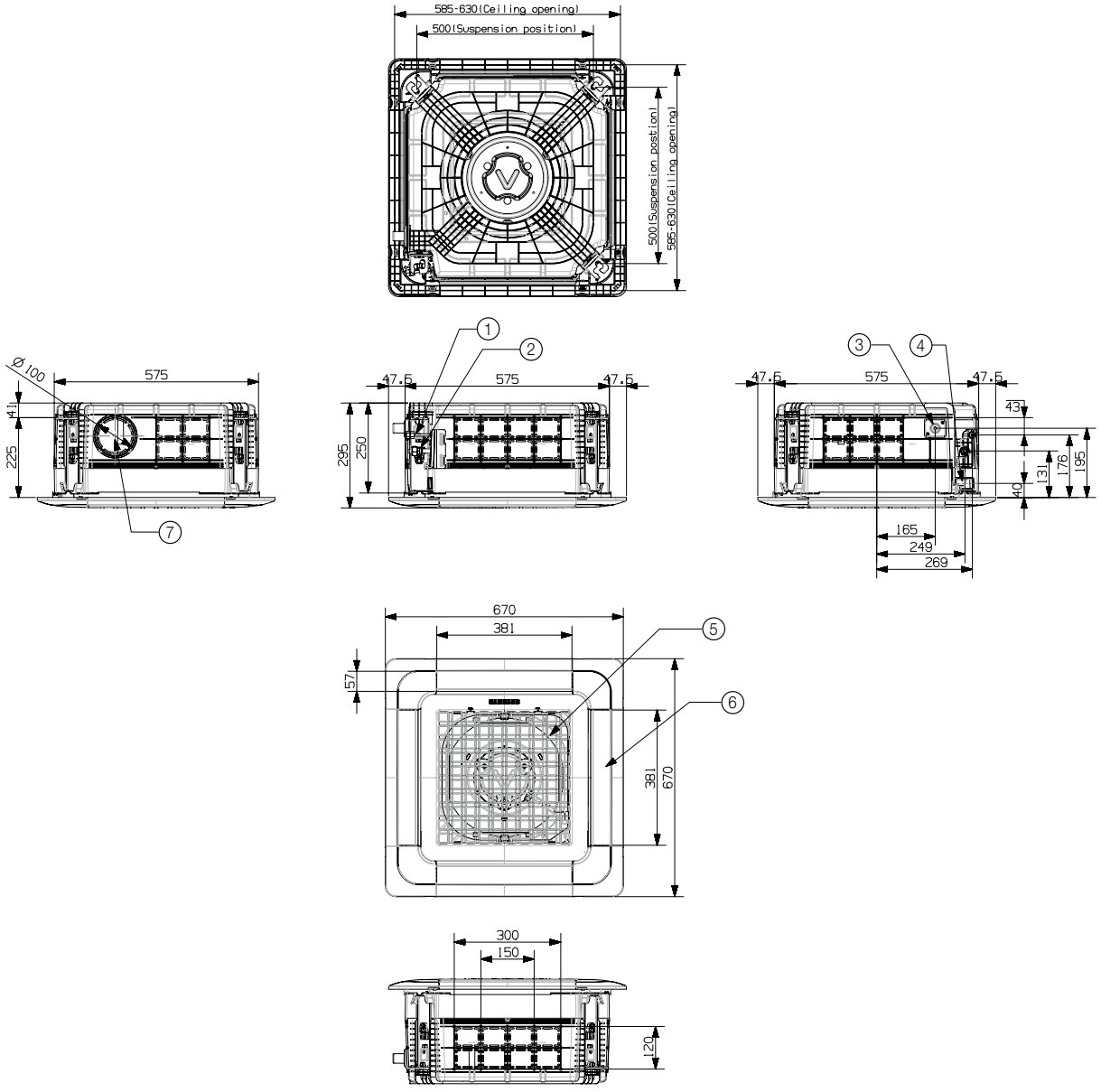
Indoor Temperature(°C)	Outdoor Temperature (°C, DB)							
	-20		-10		7		24	
DB	TC	PI	TC	PI	TC	PI	TC	PI
16	4.96	2.84	6.22	2.97	7.65	2.37	7.96	2.19
18	4.91	2.81	6.16	2.94	7.58	2.34	7.88	2.17
20	4.86	2.78	6.10	2.91	7.50	2.32	7.80	2.15
21	4.81	2.75	6.04	2.88	7.43	2.30	7.72	2.13
22	4.76	2.72	5.98	2.85	7.35	2.27	7.64	2.11
24	4.72	2.70	5.92	2.82	7.28	2.25	7.57	2.09

☑ ***Note***

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

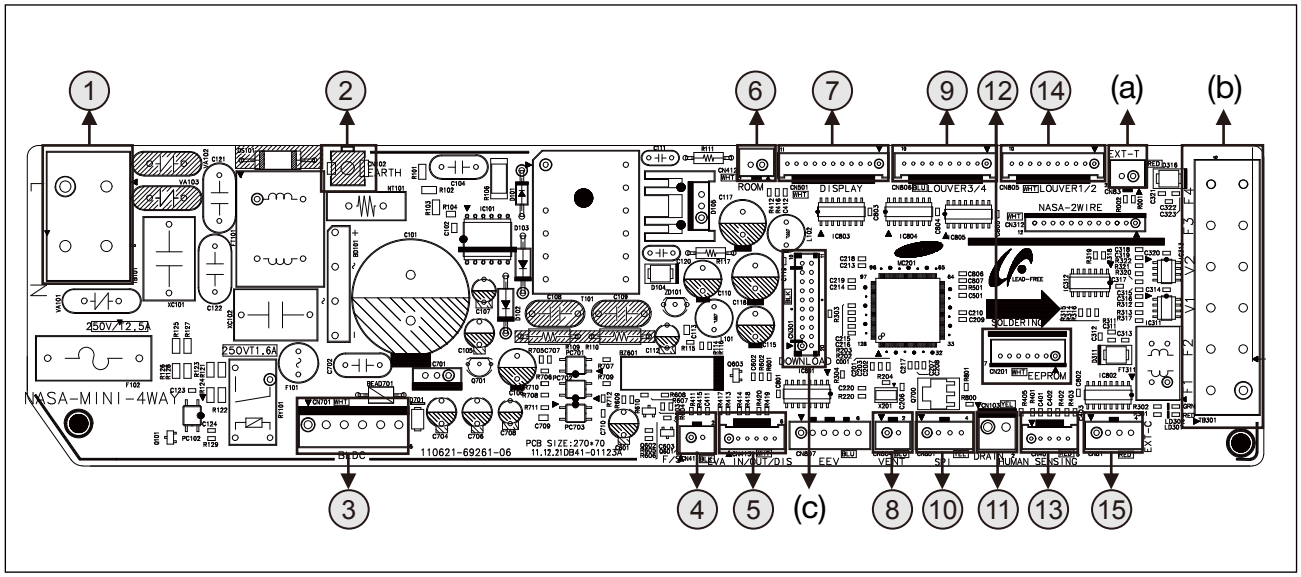
2-3. Dimensional drawing

Unit:mm



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

2-4. PCB connector lay-out



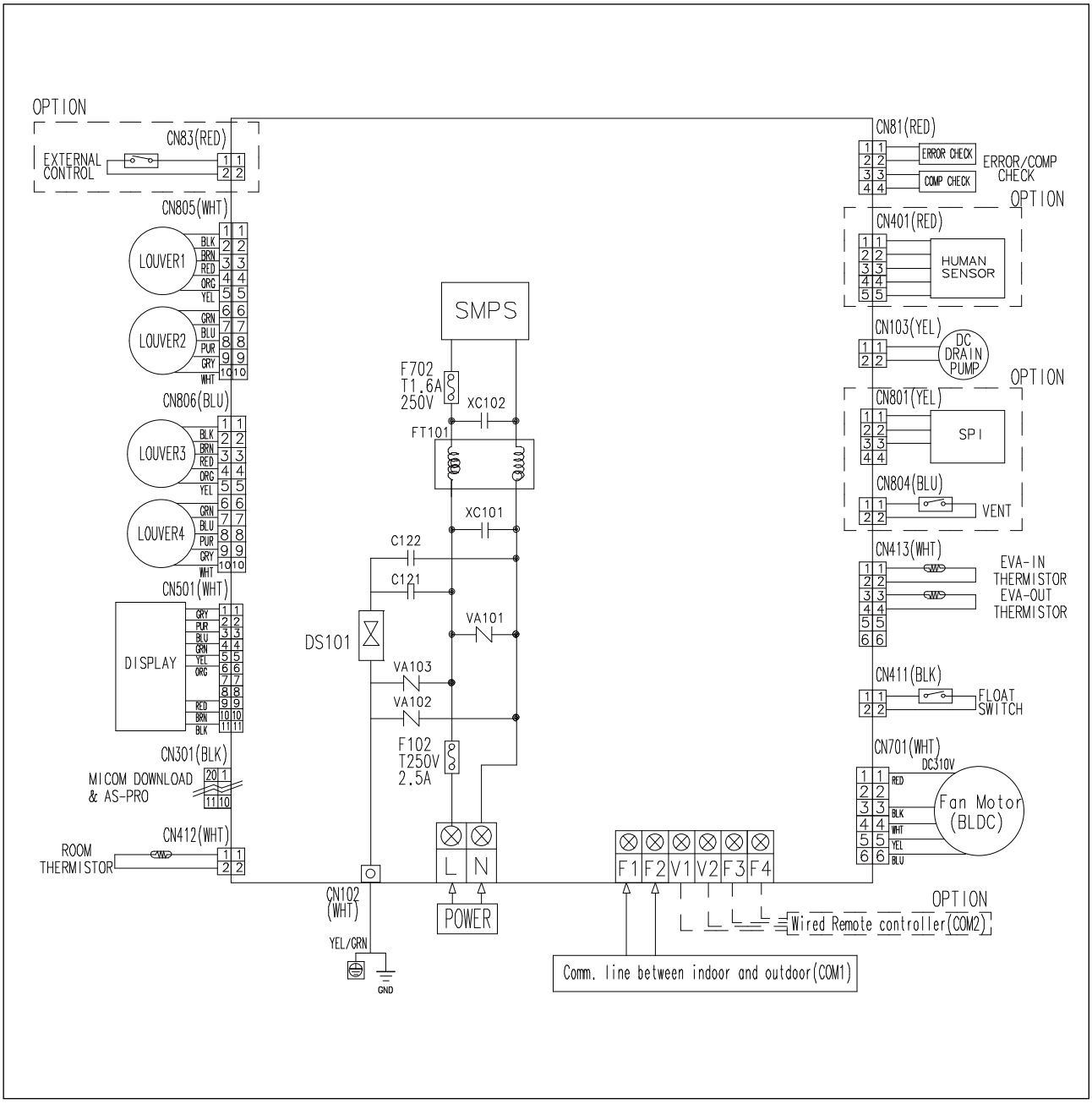
AC

No.	CN #	Color	Function
①	TB101	Black	Input Power (L, N)
②	CN102	White	Earth Wire
③	CN701	White	BLDC Fan Motor

DC

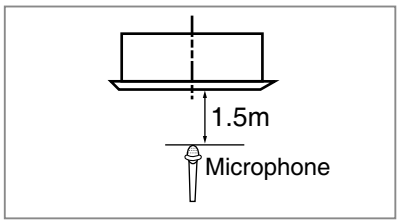
No.	CN #	Color	Function
④	CN411	Black	Float Sensor
⑤	CN413	Yellow	Eva In/Out/Discharge Temperature Sensor
⑥	CN412	White	Indoor Room Temperature sensor
⑦	CN501	White	Display
⑧	CN804	Blue	Ventilator
⑨	CN806	Blue	Louver 3/4
⑩	CN801	Yellow	SPi(S-Plasma ion)
⑪	CN103	Yellow	DC drain pump
⑫	CN201	White	EEPROM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

2-5 . Electrical wiring diagram



2-6. Sound pressure level

1) Operation sound level



Unit : dB(A)

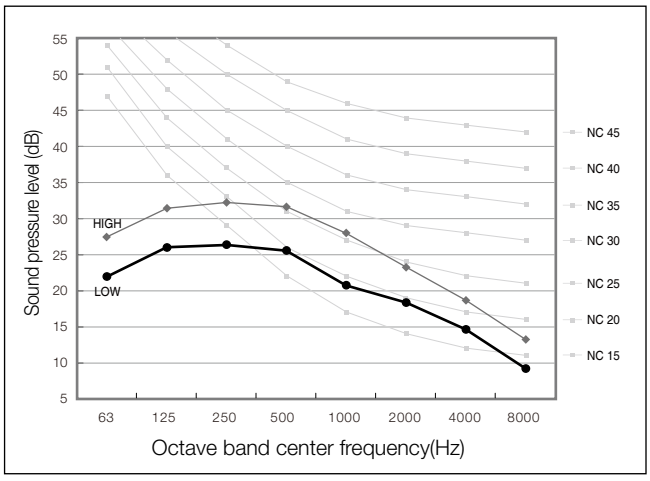
Model	High	Low
AC026FBNDEH/EU	33	27
AC035FBNDEH/EU	35	29
AC052FBNDEH/EU	39	34
AC060FBNDEH/EU	41	35
AC071FBNDEH/EU	42	36

☑ *Note*

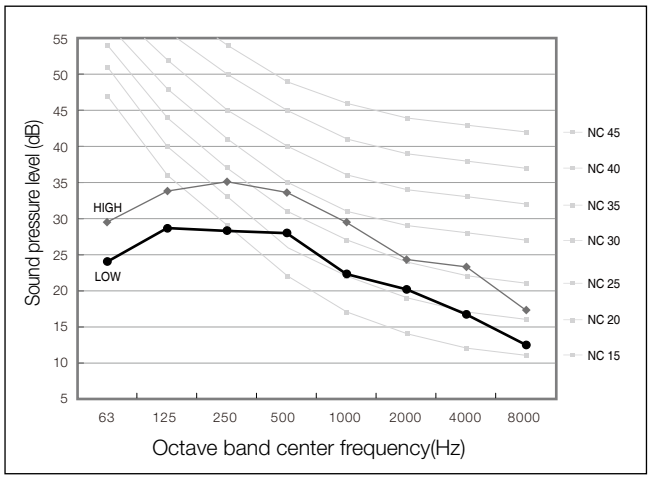
- ◆ These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- ◆ Operation sound level may differ depending on operation and ambient conditions.

2) NC curves

(1) AC026FBNDEH/EU



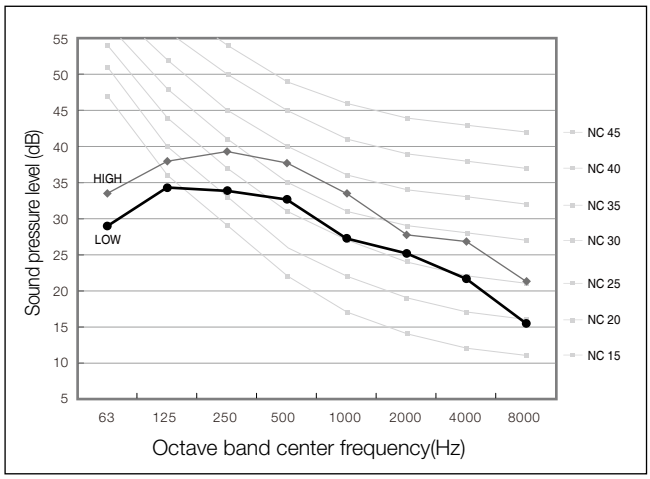
(2) AC035FBNDEH/EU



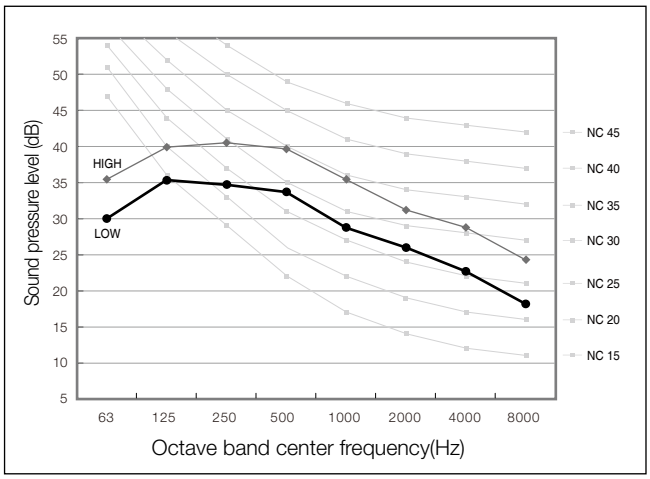
2-6. Sound pressure level

2) NC curves

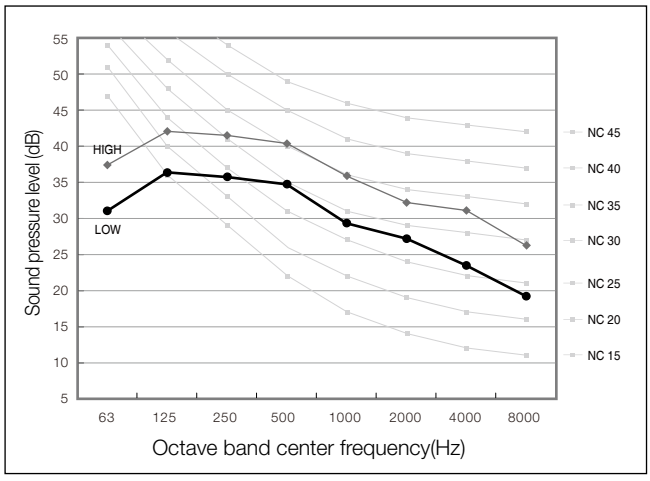
(3) AC052FBNDEH/EU



(4) AC060FBNDEH/EU



(5) AC071FBNDEH/EU

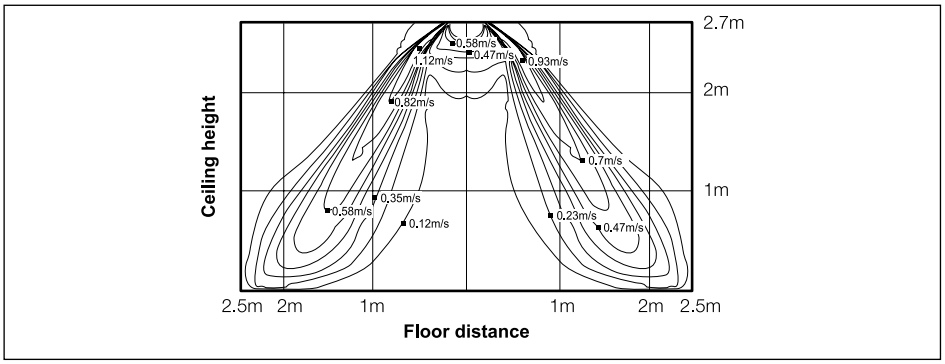


2-7. Temperature and air flow distribution

1) AC026FBNDEH/EU

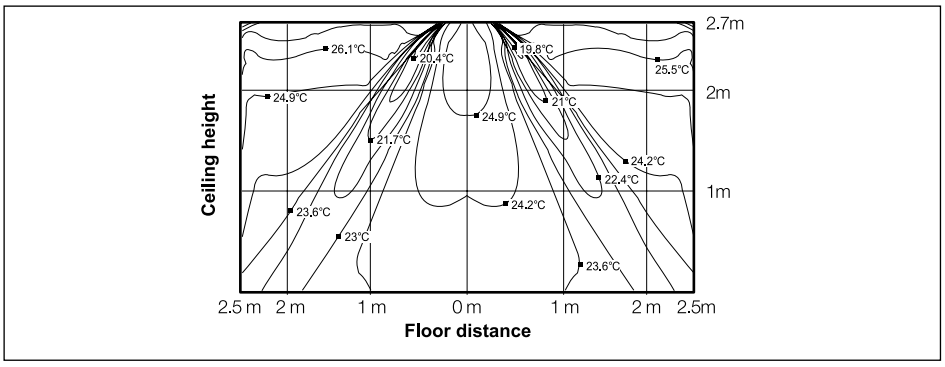
(1) Cooling air velocity distribution

◆ Discharge angle : 41°



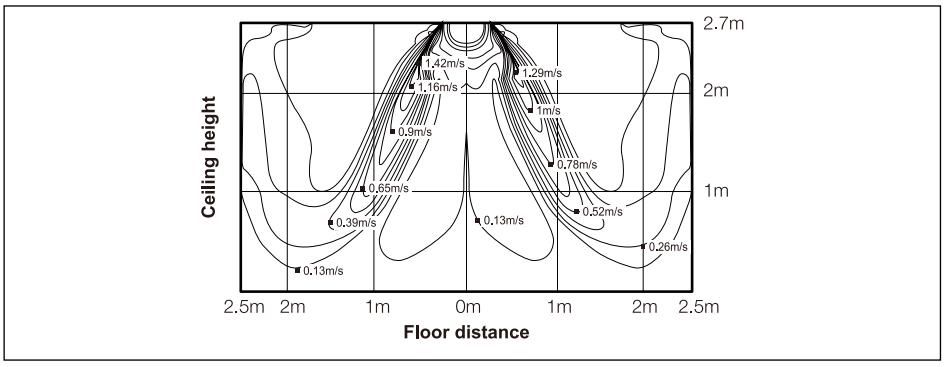
(2) Cooling temperature distribution

◆ Discharge angle : 41°



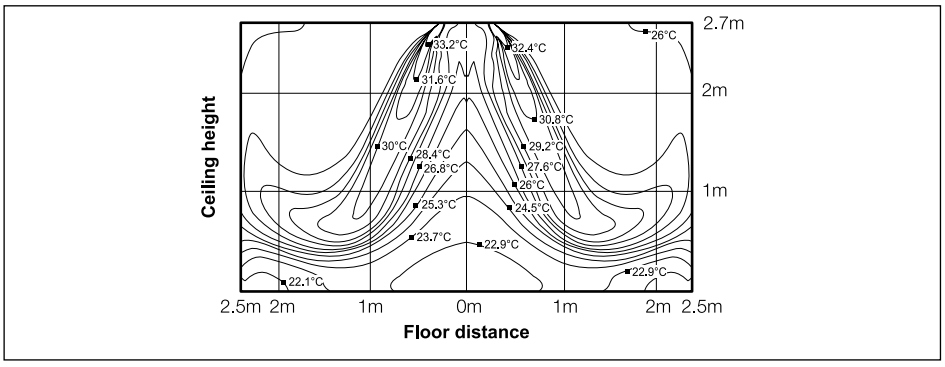
(3) Heating air velocity distribution

◆ Discharge angle : 52°



(4) Heating temperature distribution

◆ Discharge angle : 52°

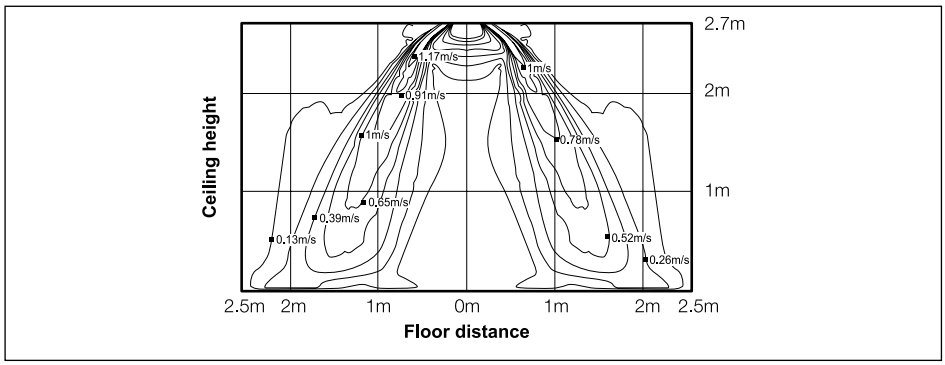


2-7. Temperature and air flow distribution

2) AC035FBNDEH/EU

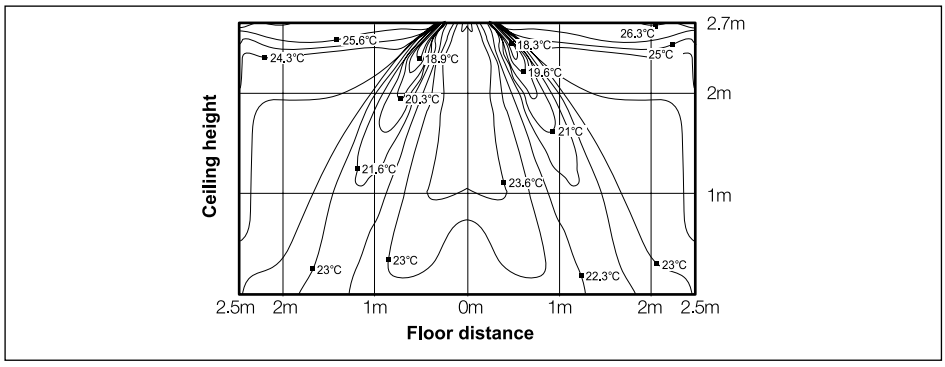
(1) Cooling air velocity distribution

◆ Discharge angle : 41°



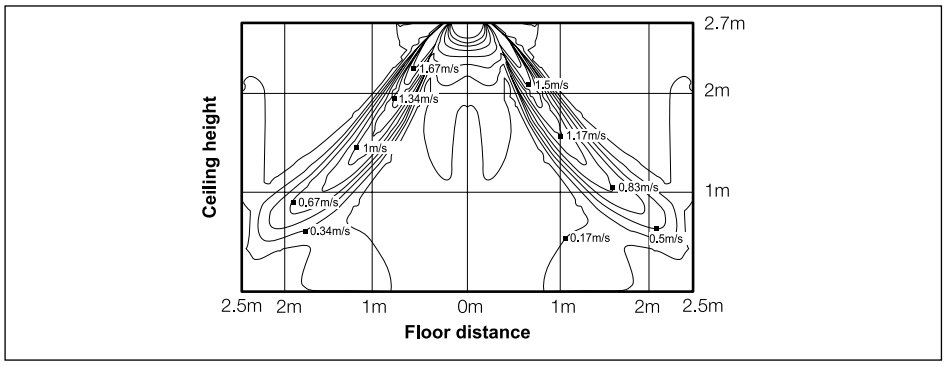
(2) Cooling temperature distribution

◆ Discharge angle : 41°



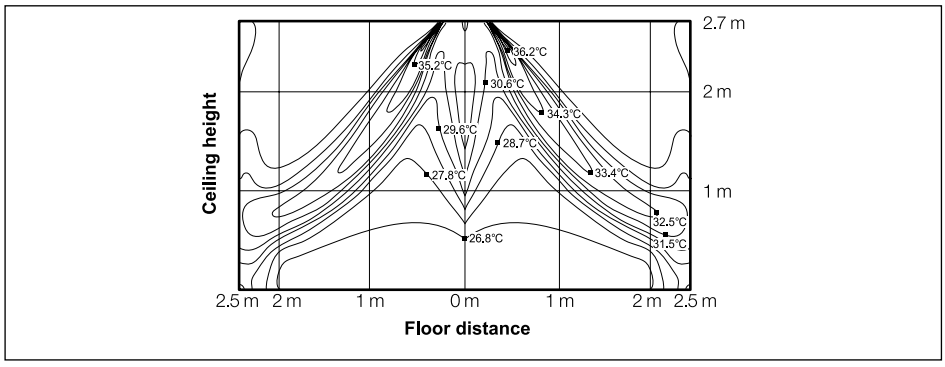
(3) Heating air velocity distribution

◆ Discharge angle : 52°



(4) Heating temperature distribution

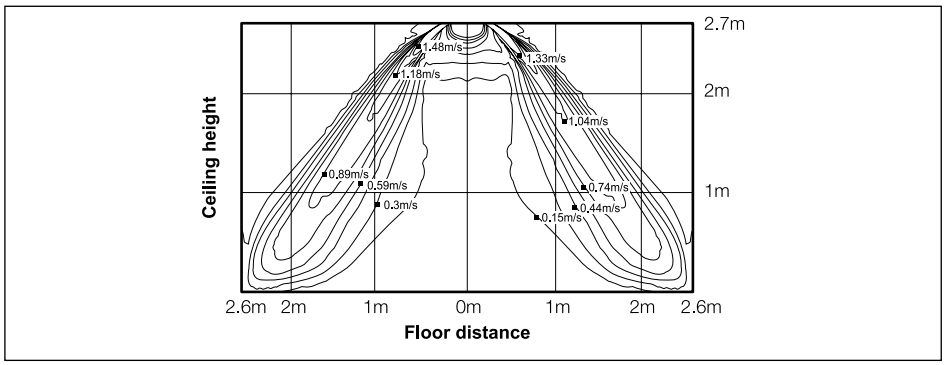
◆ Discharge angle : 52°



3) AC052FBNDEH/EU

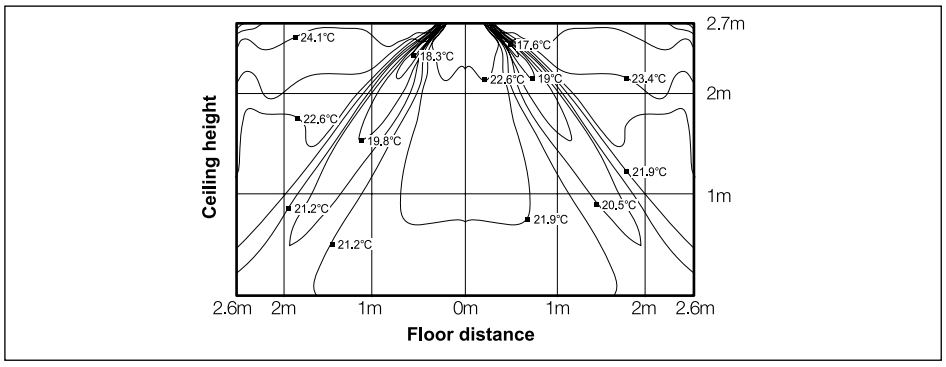
(1) Cooling air velocity distribution

◆ Discharge angle : 41°



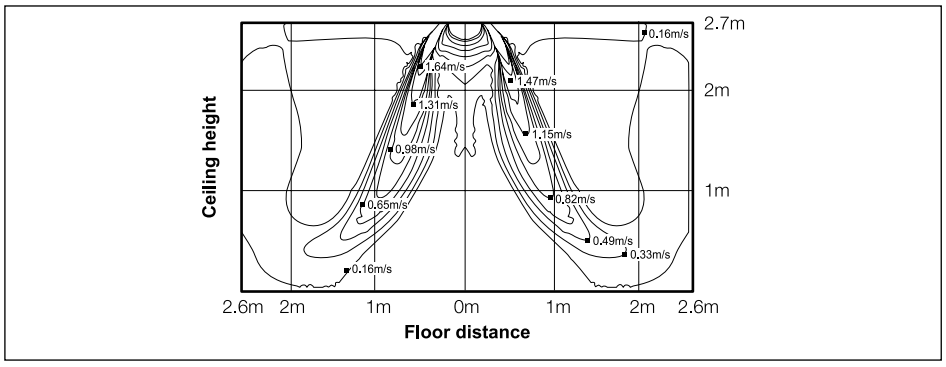
(2) Cooling temperature distribution

◆ Discharge angle : 41°



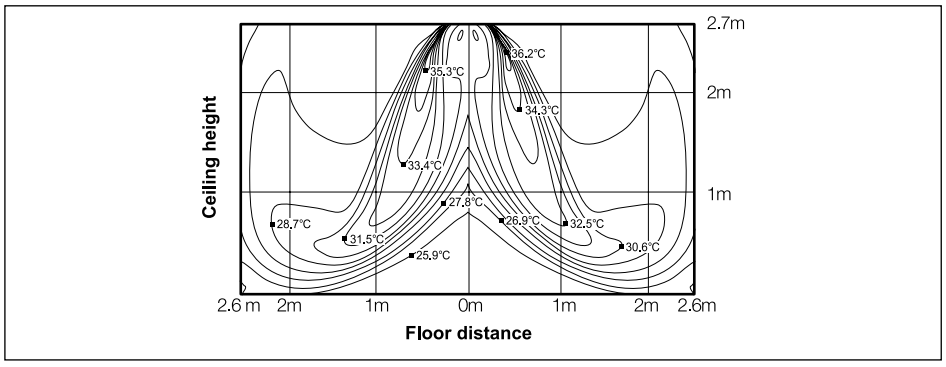
(3) Heating air velocity distribution

◆ Discharge angle : 52°



(4) Heating temperature distribution

◆ Discharge angle : 52°

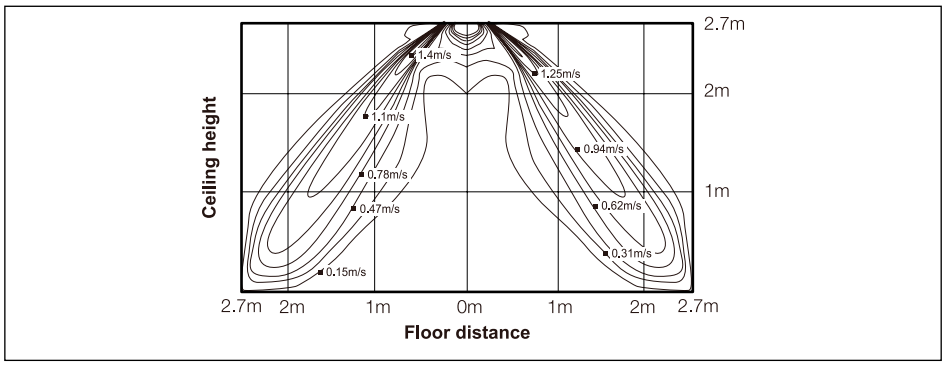


2-7. Temperature and air flow distribution

4) AC060FBNDEH/EU

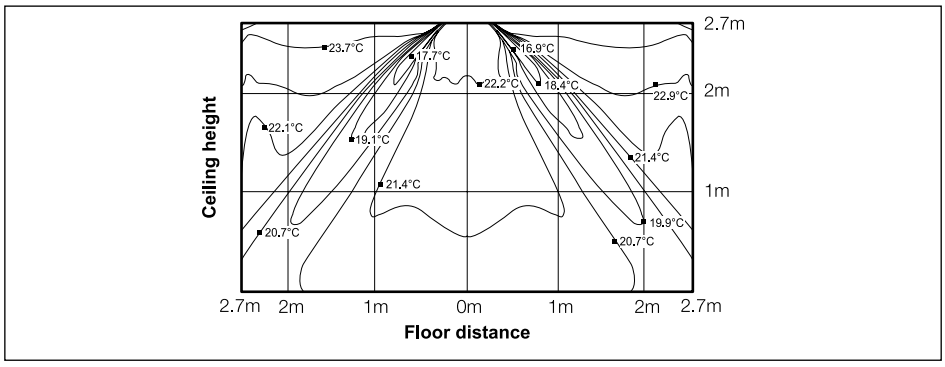
(1) Cooling air velocity distribution

◆ Discharge angle : 41°



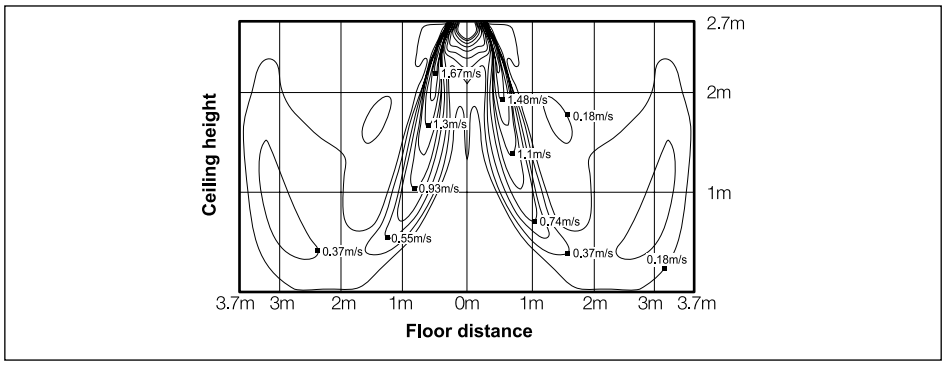
(2) Cooling temperature distribution

◆ Discharge angle : 41°



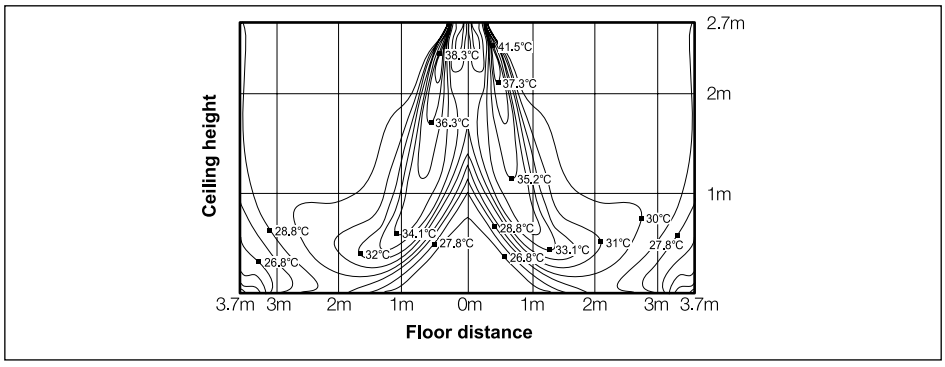
(3) Heating air velocity distribution

◆ Discharge angle : 52°



(4) Heating temperature distribution

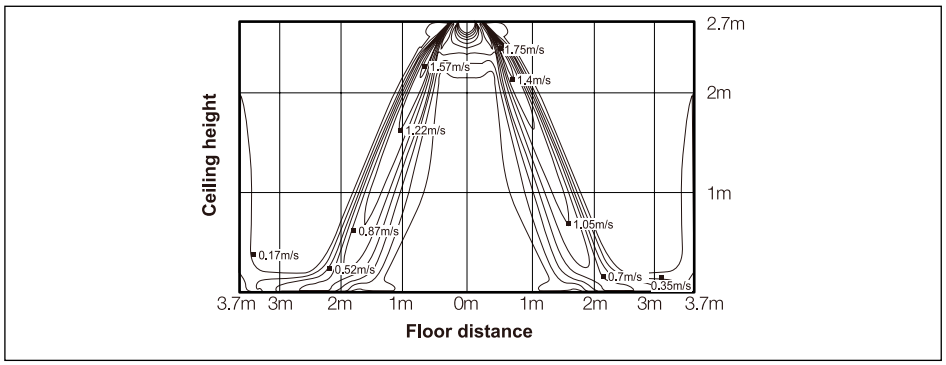
◆ Discharge angle : 52°



5) AC071FBNDEH/EU

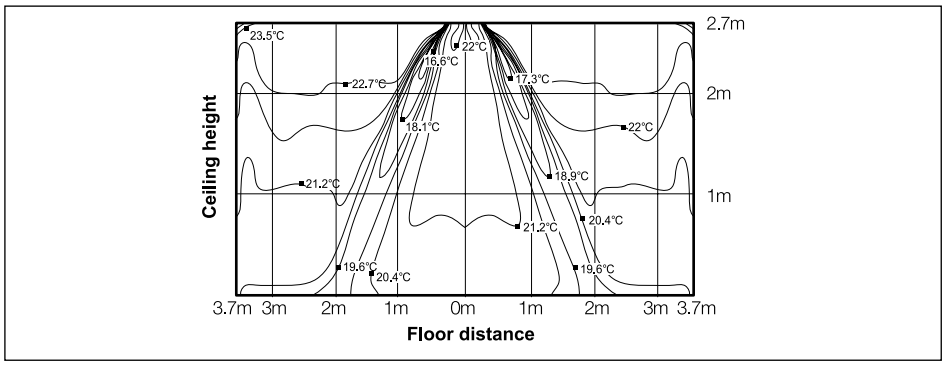
(1) Cooling air velocity distribution

◆ Discharge angle : 41°



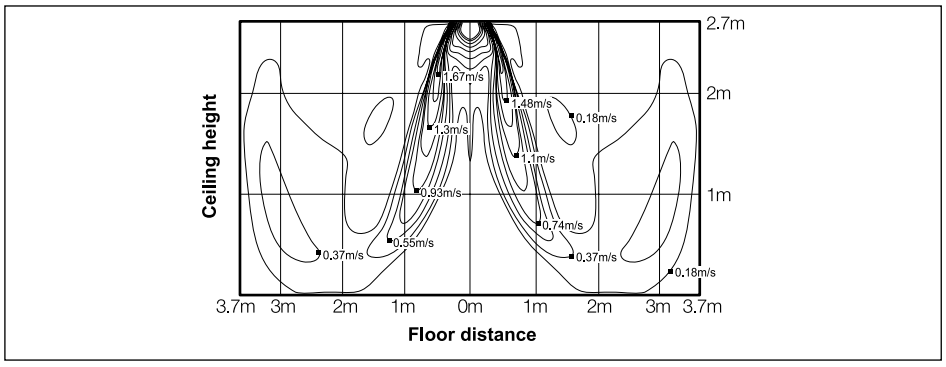
(2) Cooling temperature distribution

◆ Discharge angle : 41°



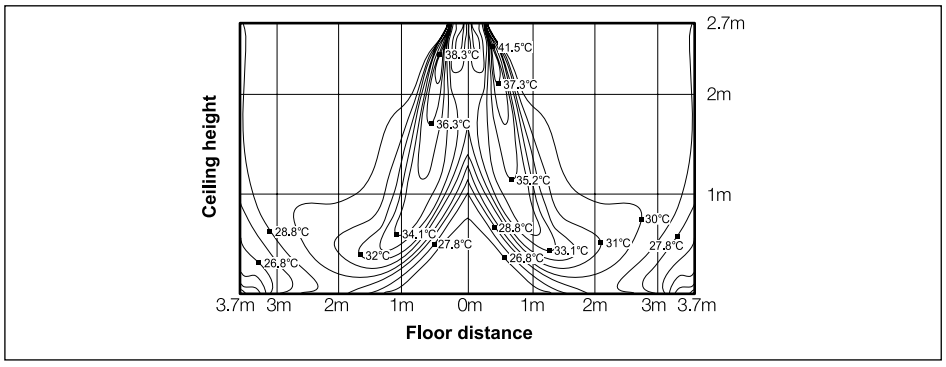
(3) Heating air velocity distribution

◆ Discharge angle : 52°



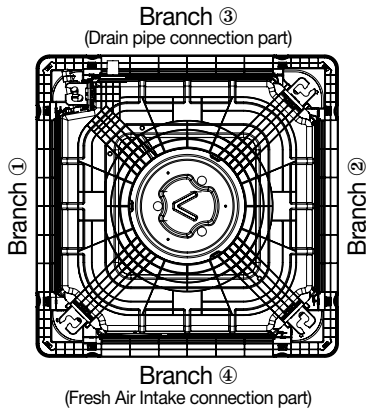
(4) Heating temperature distribution

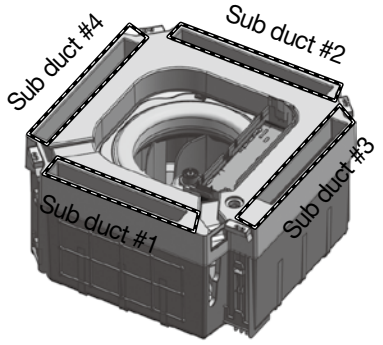
◆ Discharge angle : 52°

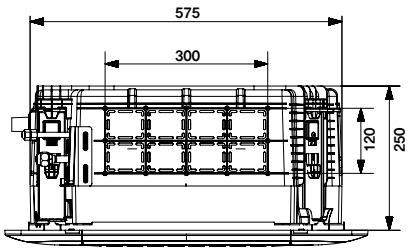


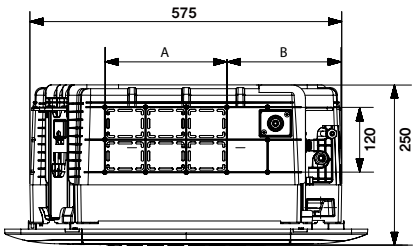
2-8. Sub duct

1) Dimensional drawing









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

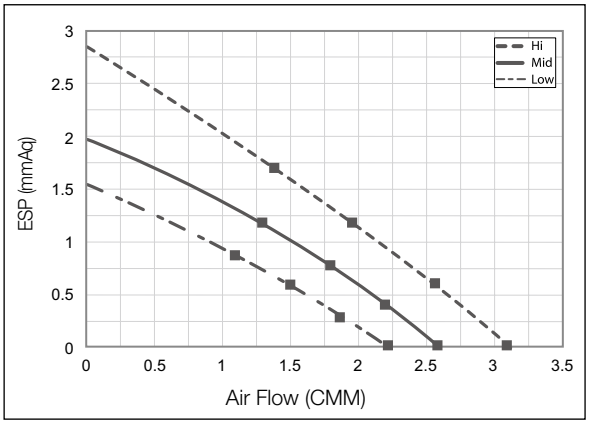
Note

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

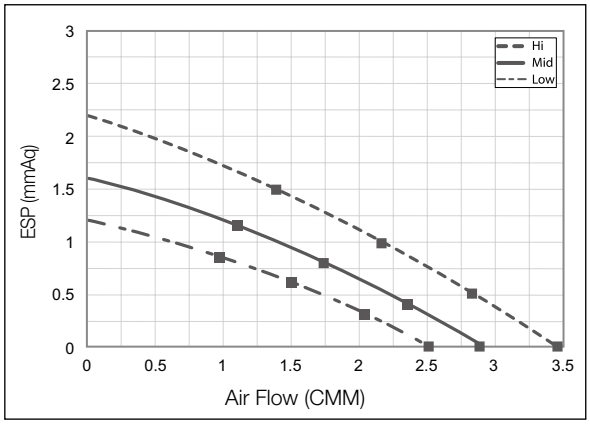
2) P-Q Curve

(1) AC026FBNDEH/EU

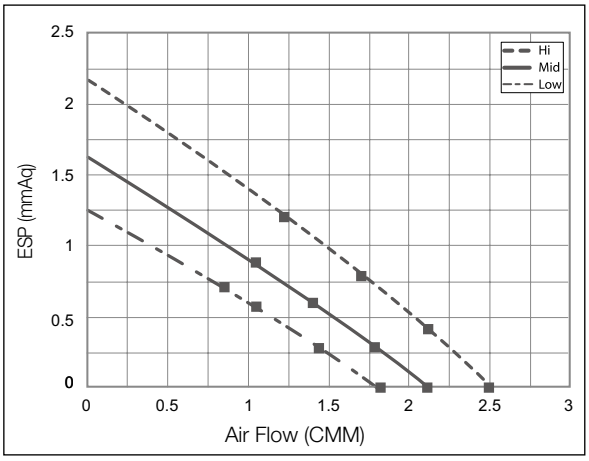
Branch ①



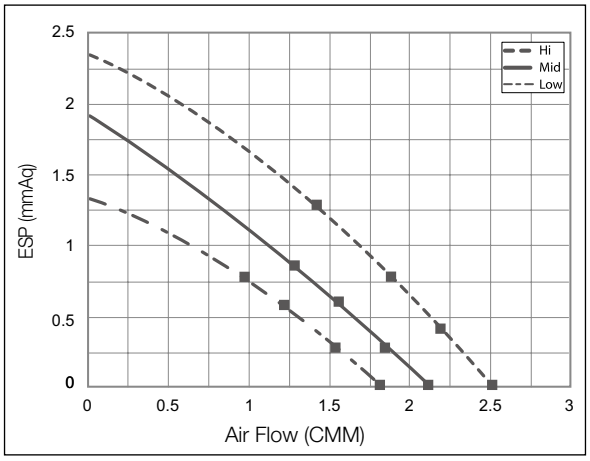
Branch ②



Branch ③

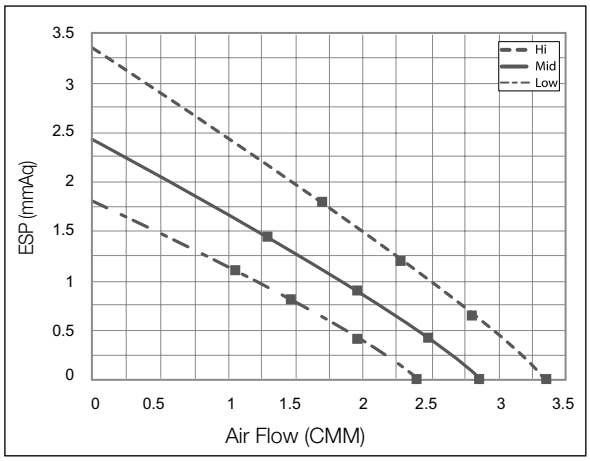


Branch ④

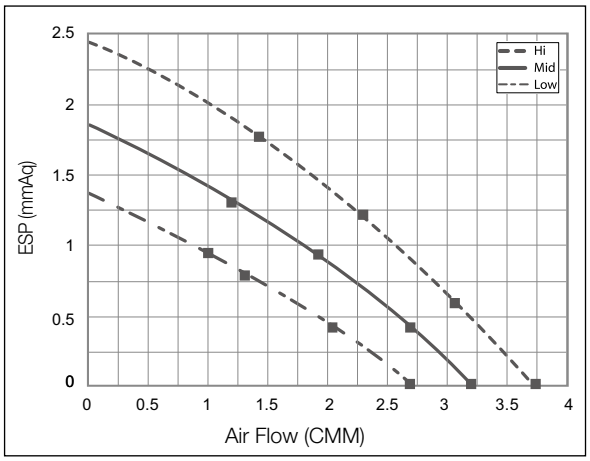


(2) AC035FBNDEH/EU

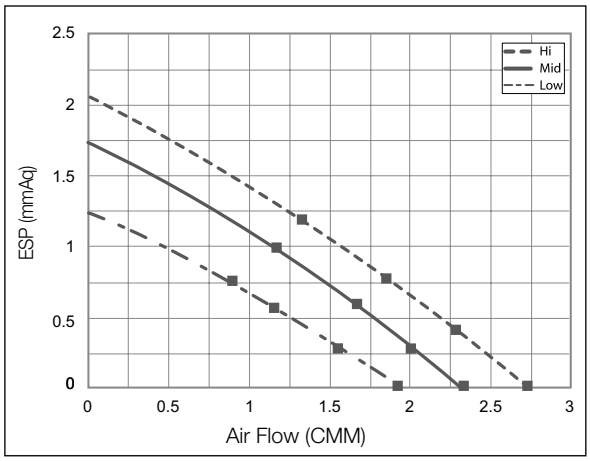
Branch ①



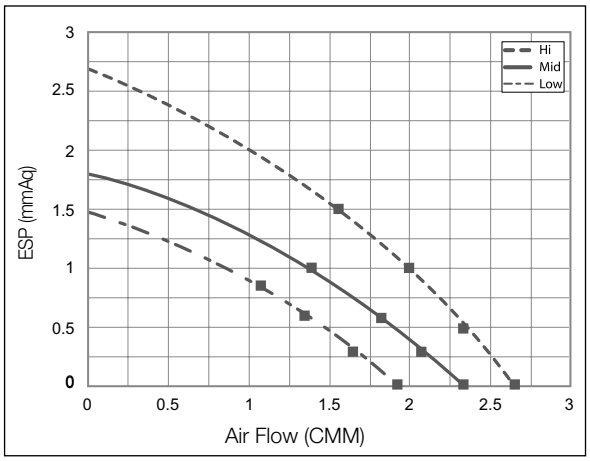
Branch ②



Branch ③



Branch ④

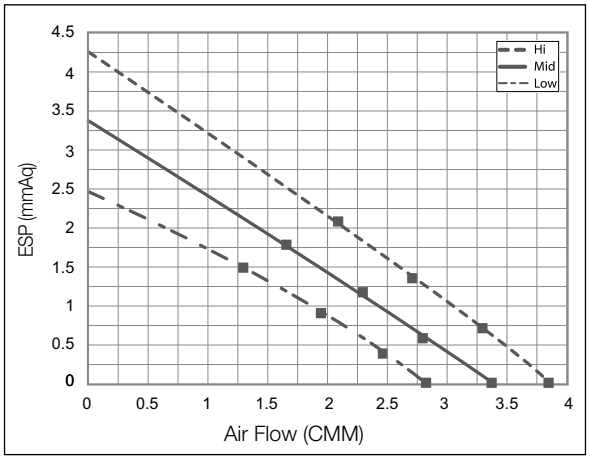


2-8. Sub duct

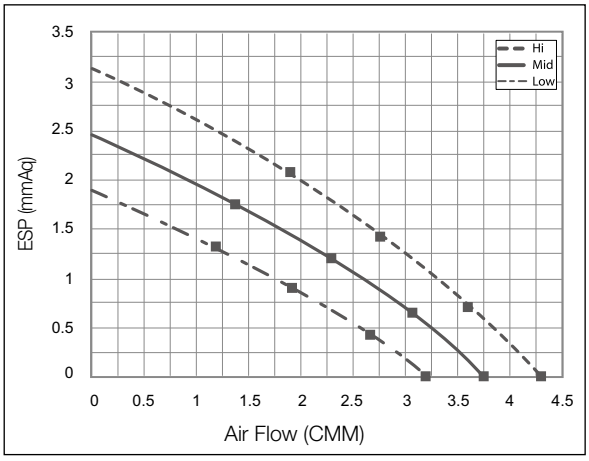
2) P-Q Curve

(3) AC052FBNDEH/EU

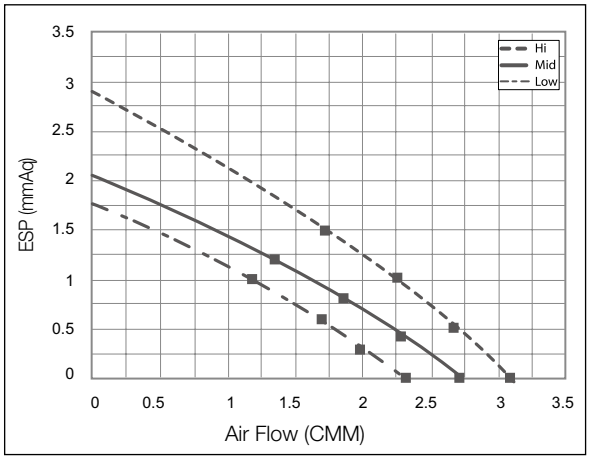
Branch ①



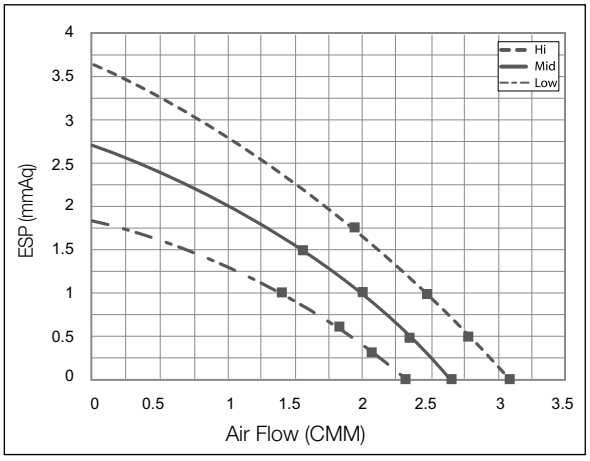
Branch ②



Branch ③

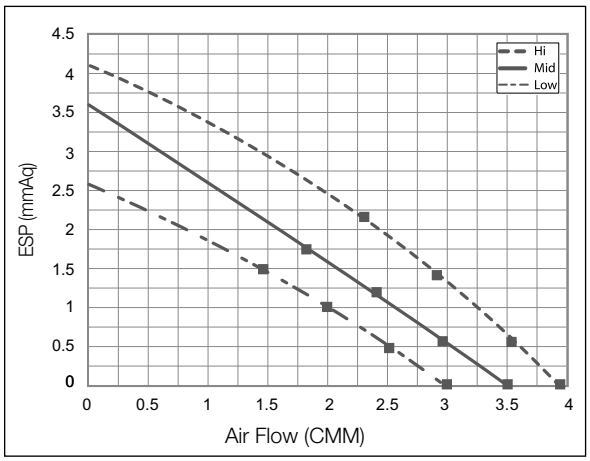


Branch ④

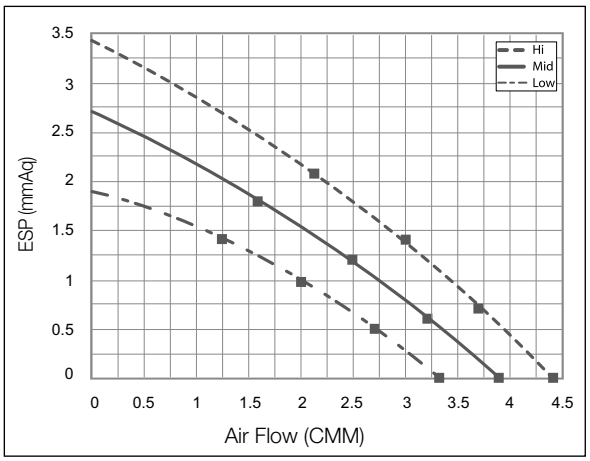


(4) AC060FBNDEH/EU

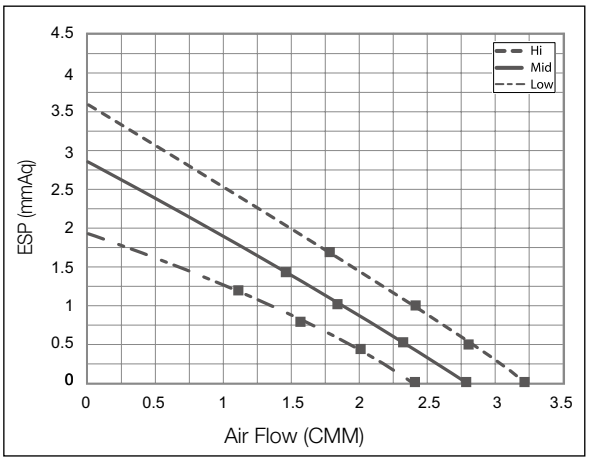
Branch ①



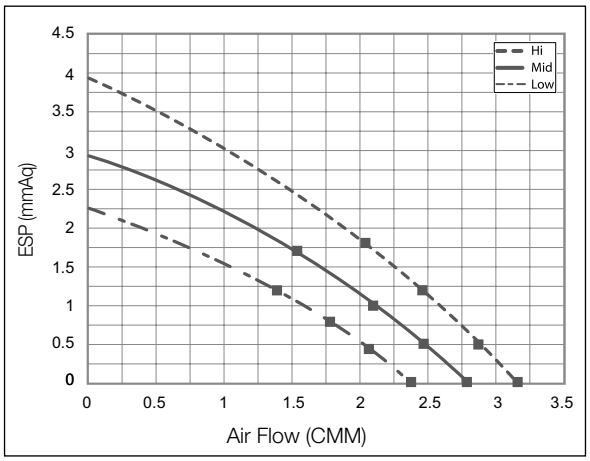
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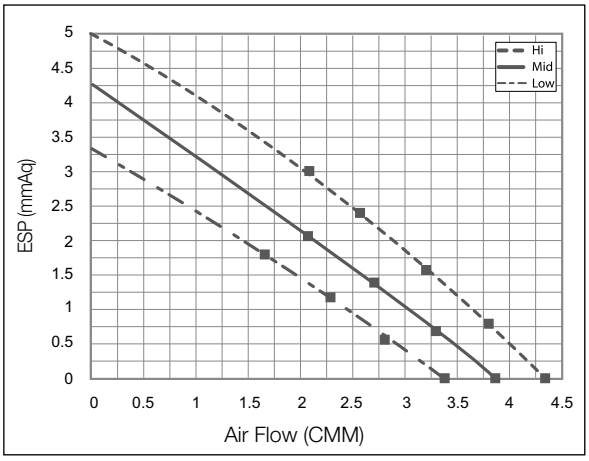


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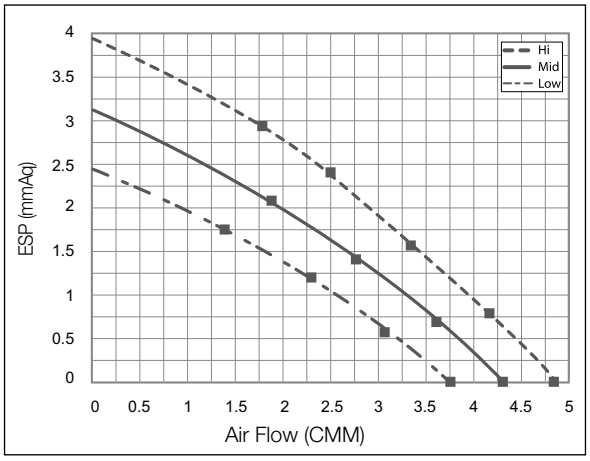


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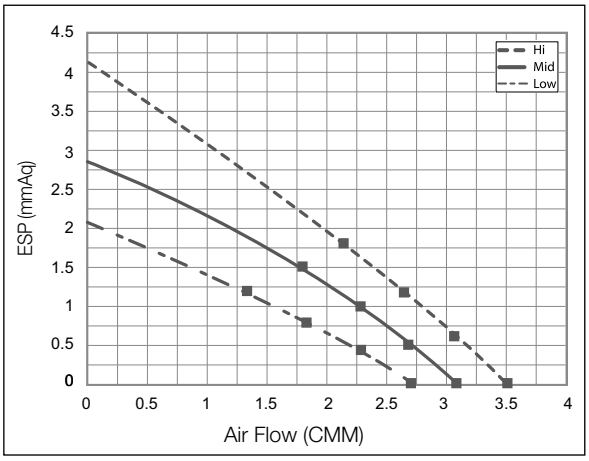
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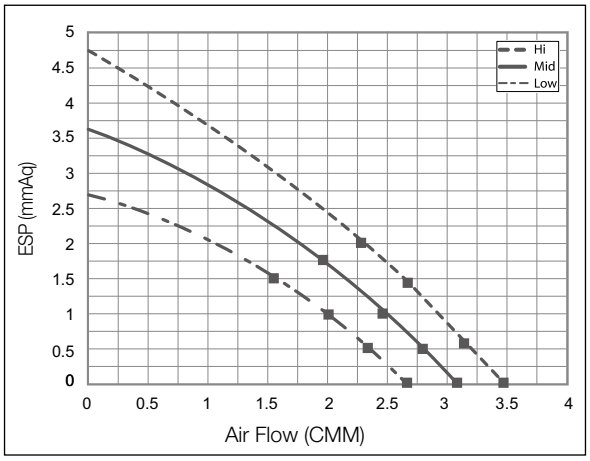
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Specifications



3 4 way cassette S

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3-1. Specifications

1) Technical specifications

Model Name		Indoor Unit			AC052FB4DEU/EU	AC071FB4DEH/EU	AC071FB4PEH/EU	AC090FB4DEH/EU
		Outdoor Unit			AC052FCADEU/EU	AC071FCADEH/EU	AC071FCAPEH/EU	AC090FCADEH/EU
System	Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP
	Capacity	Cooling (Min / Std / Max)		kW	1.00/5.10/6.00	2.20/7.10/8.00	2.20/7.10/8.00	3.00/9.00/10.00
				Btu/h	3,400/17,400/20,500	7,500/24,200/27,300	7,500/24,200/27,300	10,200/30,700/34,100
		Heating (Min / Std / Max)		kW	1.00/5.70/7.00	1.90/8.00/9.00	1.90/8.00/9.00	2.20/10.00/13.90
				Btu/h	3,400/19,400/23,900	6,500/27,300/30,700	6,500/27,300/30,700	7,500/34,100/47,400
	Power	Power Input (Nominal)	Cooling (Min / Std / Max)	kW	0.33/1.54/2.10	0.35/2.21/4.00	0.35/1.97/4.00	0.60/2.99/3.70
			Heating (Min / Std / Max)		0.25/1.46/1.90	0.35/2.22/4.00	0.35/2.10/4.00	0.46/2.93/5.20
		Current Input (Nominal)	Cooling (Min / Std / Max)	A	1.50/7.20/9.20	2.00/10.00/21.00	2.00/9.50/21.00	3.00/12.70/18.70
			Heating (Min / Std / Max)		1.50/7.00/8.60	2.00/10.00/21.00	2.00/9.80/21.00	2.50/12.50/22.70
		MCA		A	10.80 (MCA)	20.30 (MCA)	20.30 (MCA)	24.70 (MCA)
		MFA		A	13.13	25.00	25.00	30.00
	Energy Efficiency	EER (Nominal Cooling)		-	3.31	3.21	3.60	3.01
		COP (Nominal Heating)		-	3.90	3.60	3.81	3.41
		SEER (Cooling Energy Grade)		-	SEER 6.4(A++)	SEER 6.0(A+)	SEER 6.4(A++)	SEER 5.6(A+)
		SCOP (Heating Energy Grade)		-	SCOP 4.0(A+)	SCOP 3.9(A)	SCOP 4.2(A+)	SCOP 3.8(A)
		Pdesignh		kW	3.0	4.5	4.8	6.6
	Piping Connections	Liquid Pipe		Ø, mm	6.35	6.35	6.35	9.52
				Ø, inch	1/4"	1/4"	1/4"	3/8"
		Gas Pipe		Ø, mm	12.70	15.88	15.88	15.88
				Ø, inch	1/2"	5/8"	5/8"	5/8"
		Installation Limitation	Max. Length (Outdoor to indoor)	m	30(35)	50(55)	50(55)	50(55)
			Max. Height (Between ID/OD)	m	20(20)	30(30)	30(30)	30(30)
	Field Wiring	Power Source Wire		-	2.5 ~ 4.0	2.5 ~ 4.0	2.5 ~ 4.0	2.5 ~ 4.0
		Transmission Cable		-	0.75 ~ 1.0	0.75 ~ 1.0	0.75 ~ 1.0	0.75 ~ 1.25
	Refrigerant	Type		-	R410A	R410A	R410A	R410A
		Control Method		-	-	-	-	-
		Factory Charging		kg	1.40	1.80	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	1, 2, 220-240, 50
	Fan	Type		-	Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan
		Motor	Output	W	-	-	-	-
		Number of Unit		EA	1.00	1.00	1.00	1.00
		Air Flow Rate	High / Mid / Low	CMM	17.00/15.50/13.00	19.50/16.50/14.50	21.00/19.00/17.00	24.50/21.00/17.50
				l/s	283.33 / 258.33 / 216.67	325.00/275.00/241.67	350.00/316.67/283.33	408.33/350.00/291.67
		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)	35.00/32.0/29.0	37.00/35.0/30.0	37.00/33.0/28.0	40.00/36.0/32.0
		Sound Power		dB(A)	51	53	53	57
	External Dimension	Net Weight		kg	15.50	15.00	17.00	16.00
		Shipping Weight		kg	19.50	20.00	22.00	20.50
		Net Dimensions (WxHxD)		mm	840 x 204 x 840	840 x 204 x 840	840 x 246 x 840	840 x 246 x 840
		Shipping Dimensions (WxHxD)		mm	898 x 275 x 898	898 x 274 x 898	898 x 316 x 898	898 x 316 x 898
	Panel Size	Panel model		-	PC4NUSKE	PC4NUSKE	PC4NUSKE	PC4NUSKE
		Panel Net Weight		kg	5.90	5.90	5.90	5.90
		Shipping Weight		kg	8.40	8.40	8.40	8.40
		Net Dimensions (W×H×D)		mm	950 x 45 x 950	950 x 45 x 950	950 x 45 x 950	950 x 45 x 950
		Shipping Dimensions (W×H×D)		mm	1005 x 100 x 1005	1005 x 100 x 1005	1005 x 100 x 1005	1005 x 100 x 1005
	Additional Accessories	Drain pump	Drain pump	-	-	-	-	-
			Max. Lifting Height / Displacement	mm/liter/h	-	-	-	-
		Air Filter		-	-	-	-	-
Outdoor Unit	Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50
	Compressor	Type		-	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary
		Model		-	UG4T150FUDJQ	UG4T200FUAE4SG	UG4T200FUAE4SG	UG8T300FUBJUSG
		Output		kW	1.37	1.79	1.79	2.82
		Oil	Type	-	POE	POE	POE	POE
			Initial Charge	cc	650.00	650.00	650.00	1200.00
	Fan	Air Flow Rate	Cooling	CMM	33	50.00	50.00	63.50
				l/s	550	833.33	833.33	1,058.33
	Sound	Sound Pressure	Cooling / Heating	dB(A)	48.0 / 49.0	49.0 / 51.0	49.0 / 51.0	51.0 / 52.0
		Sound Power		dB(A)	64	67	67	68
	External Dimension	Net Weight		kg	38.50	55.00	55.00	72.00
		Shipping Weight		kg	42.50	59.00	59.00	77.00
		Net Dimensions (WxHxD)		mm	790 x 548 x 285	880 x 798 x 310	880 x 798 x 310	940 x 998 x 330
		Shipping Dimensions (WxHxD)		mm	926 x 655 x 382	1023 x 891 x 413	1023 x 891 x 413	995 x 1096 x 426
	Operating Temp. Range	Cooling		°C	-10~46	-15~50	-15~50	-15~50
		Heating		°C	-15~24	-20~24	-20~24	-20~24

Model Name		Indoor Unit			AC090FB4PEH/EU	AC100FB4DEH/EU	AC100FB4DEH/EU	AC100FB4PEH/EU	AC100FB4PEH/EU
		Outdoor Unit			AC090FCAPEH/EU	AC100FCADEH/EU	AC100FCADGH/EU	AC100FCAPEH/EU	AC100FCAPGH/EU
System	Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP
	Capacity	Cooling (Min / Std / Max)		kW	2.50/9.00/10.00	3.20/10.00/12.00	4.00/10.00/12.00	3.50/10.00/12.00	3.50/10.00/12.00
				Btu/h	8,500/30,700/34,100	10,900/34,100/40,900	13,600/34,100/40,900	11,900/34,100/40,900	11,900/34,100/40,900
		Heating (Min / Std / Max)		kW	2.30/10.00/13.90	2.20/11.20/15.50	3.50/11.20/15.50	3.50/11.20/15.50	3.50/11.20/15.50
				Btu/h	7,800/34,100/47,400	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 (Min / Std / Max)	kW	0.60/2.65/3.70	0.60/3.32/4.70	0.90/3.32/4.70	0.80/2.50/3.80	0.80/2.50/3.80
			Heating (Min / Std / Max)		0.48/2.63/5.20	0.50/3.32/5.20	0.70/3.28/5.50	0.70/2.60/4.50	0.70/2.60/4.50
		Current Input (Nominal)	Cooling (Min / Std / Max)	A	3.00/13.30/18.70	3.00/15.10/20.50	1.60/5.10/7.80	3.70/11.60/24.00	2.10/4.20/12.00
			Heating (Min / Std / Max)		2.40/13.00/23.00	2.60/14.60/24.00	1.30/5.10/16.10	3.50/11.90/24.00	2.10/4.30/16.10
		MCA		A	25.00 (MCA)	24.70 (MCA)	12.70 (MCA)	25.00 (MCA)	13.00 (MCA)
		MFA		A	30.00	30.00	15.00	30.00	15.00
	Energy Efficiency	EER (Nominal Cooling)		-	3.40	3.01	3.01	4.00	4.00
		COP (Nominal Heating)		-	3.80	3.37	3.41	4.31	4.31
		SEER (Cooling Energy Grade)		-	SEER 6.4(A++)	SEER 5.6(A+)	SEER 5.6(A+)	SEER 6.4(A++)	SEER 6.4(A++)
		SCOP (Heating Energy Grade)		-	SCOP 4.2(A+)	SCOP 3.8(A)	SCOP 3.8(A)	SCOP 4.21(A+)	SCOP 4.2(A+)
		Pdesignh		kW	7.6	7.6	7.6	9.3	9.3
	Piping Connections	Liquid Pipe		Ø, mm	9.52	9.52	9.52	9.52	9.52
				Ø, inch	3/8"	3/8"	3/8"	3/8"	3/8"
		Gas Pipe		Ø, mm	15.88	15.88	15.88	15.88	15.88
				Ø, inch	5/8"	5/8"	5/8"	5/8"	5/8"
		Installation Limitation	Max. Length (Outdoor to indoor)	m	50(55)	50(55)	50(55)	75(75)	75(75)
			Max. Height (Between ID/OD)	m	30(30)	30(30)	30(30)	30(30)	30(30)
	Field Wiring	Power Source Wire		-	2.5 ~ 4.0	2.5 ~ 4.0	1.5 ~ 2.5	2.5 ~ 4.0	1.5 ~ 2.5
		Transmission Cable		-	0.75 ~ 1.0	0.75 ~ 1.25	0.75 ~ 1.25	0.75 ~ 1.25	0.75 ~ 1.25
	Refrigerant	Type		-	R410A	R410A	R410A	R410A	R410A
		Control Method		-	-	-	-	-	-
		Factory Charging		kg	3.00	3.00	3.10	3.40	3.40
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	Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan
		Motor	Output	W	-	-	-	-	-
		Number of Unit		EA	1.00	1.00	1.00	1.00	1.00
		Air Flow Rate	High / Mid / Low	CMM	27.00/24.00/20.00	28.00/25.50/22.00	28.00/25.50/22.00	30.00/24.00/18.90	30.00/24.00/18.90
				l/s	450.00/400.00/333.33	466.67/425.00/366.67	466.67/425.00/366.67	500.00/400.00/315.00	500.00/400.00/315.00
		External Static Pressure	Min / Std / Max	mmAq	-	-	-	-	-
				Pa	-	-	-	-	-
	Drain	Drain Pipe		Ø,mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
	Sound	Sound Pressure	High / Mid / Low	dB(A)	42.00/37.0/32.0	44.00/39.0/34.0	44.00/39.0/34.0	44.00/39.0/34.0	44.00/39.0/34.0
		Sound Power		dB(A)	58	58	58	59	59
	External Dimension	Net Weight		kg	18.00	16.00	16.00	21.00	21.00
		Shipping Weight		kg	23.00	20.50	20.50	26.00	26.00
		Net Dimensions (WxHxD)		mm	840 x 288 x 840	840 x 246 x 840	840 x 246 x 840	840 x 288 x 840	840 x 288 x 840
		Shipping Dimensions (WxHxD)		mm	898 x 357 x 898	898 x 316 x 898	898 x 316 x 898	898 x 357 x 898	898 x 357 x 898
	Panel Size	Panel model		-	PC4NUSKE	PC4NUSKE	PC4NUSKE	PC4NUSKE	PC4NUSKE
		Panel Net Weight		kg	5.90	5.90	5.90	5.90	5.90
		Shipping Weight		kg	8.40	8.40	8.40	8.40	8.40
		Net Dimensions (W×H×D)		mm	950 x 45 x 950	950 x 45 x 950	950 x 45 x 950	950 x 45 x 950	950 x 45 x 950
		Shipping Dimensions (W×H×D)		mm	1005 x 100 x 1005	1005 x 100 x 1005	1005 x 100 x 1005	1005 x 100 x 1005	1005 x 100 x 1005
	Additional Accessories	Drain pump	Drain pump	-	-	-	-	-	-
			Max. Lifting Height / Displacement	mm/liter/h	-	-	-	-	-
		Air Filter		-	-	-	-	-	-
Outdoor Unit	Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50	3, 4, 380-415, 50	1, 2, 220-240, 50	3, 4, 380-415, 50
	Compressor	Type		-	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary
		Model		-	UG8T300FUBJUSG	UG8T300FUBJUSG	UG5T450FUFJXSG	UG5T450FUEJXSG	UG5T450FUFJXSG
		Output		kW	2.82	2.82	4.12	4.12	4.12
		Oil	Type	-	POE	POE	POE	POE	POE
			Initial Charge	cc	1200.00	1200.00	1700.00	1700.00	1700.00
	Fan	Air Flow Rate	Cooling	CMM	63.50	68.00	68.00	91.00	91.00
				l/s	1,058.33	1,133.33	1,133.33	1,516.67	1,516.67
	Sound	Sound Pressure	Cooling / Heating	dB(A)	52.0 / 53.0	52.0 / 54.0	52.0 / 54.0	50.0 / 52.0	50.0 / 52.0
		Sound Power		dB(A)	67	69	68	66	66
	External Dimension	Net Weight		kg	72.00	72.00	81.00	88.00	91.00
		Shipping Weight		kg	77.00	77.00	86.00	98.00	101.00
		Net Dimensions (WxHxD)		mm	940 x 998 x 330	940 x 998 x 330	940 x 998 x 330	940 x 1210 x 330	940 x 1210 x 330
		Shipping Dimensions (WxHxD)		mm	995 x 1096 x 426	995 x 1096 x 426	995 x 1096 x 426	995 x 1338 x 426	995 x 1338 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

3-1. Specifications

1) Technical specifications

Model Name		Indoor Unit			AC100FB4FEH/EU	NS1254DXEA	NS1254DXEA	NS1254PXEA
		Outdoor Unit			AC100FCAFEH/EU	RC125DHXEB	RC125DHXGA	RC125PHXEA
System	Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP
	Capacity	Cooling (Min / Std / Max)		kW	4.40/10.00/12.00	3.50/12.50/14.00	3.50/12.50/14.00	3.50/12.50/14.00
				Btu/h	15,000/34,100/40,900	11,900/42,700/47,800	11,900/42,700/47,800	11,900/42,700/47,800
		Heating (Min / Std / Max)		kW	3.50/11.20/15.50	3.00/14.00/16.20	3.00/14.00/16.20	3.50/14.00/16.20
				Btu/h	11,900/38,200/52,900	10,200/47,800/55,300	10,200/47,800/55,300	11,900/47,800/55,300
	Power	Power Input (Nominal)	Cooling (Min / Std / Max)	kW	1.05/2.38/3.10	0.80/3.89/4.50	0.80/3.89/4.50	0.80/3.47/4.80
			Heating (Min / Std / Max)		0.62/2.46/4.60	0.81/3.88/4.88	0.81/3.88/4.88	0.70/3.59/4.50
		Current Input (Nominal)	Cooling (Min / Std / Max)	A	4.60/11.50/24.00	4.00/18.00/20.00	2.10/6.10/12.10	3.70/15.50/24.00
			Heating (Min / Std / Max)		3.00/11.80/24.00	3.50/18.00/24.00	2.10/6.10/16.10	3.50/16.00/24.00
		MCA		A	25.00 (MCA)	25.00 (MCA)	13.00 (MCA)	25.00 (MCA)
		MFA		A	30.00	30.00	15.00	30.00
	Energy Efficiency	EER (Nominal Cooling)		-	4.20	3.21	3.21	3.60
		COP (Nominal Heating)		-	4.55	3.61	3.61	3.90
		SEER (Cooling Energy Grade)		-	SEER 6.7(A++)	Energy Grade (C) A	Energy Grade (C) A	Energy Grade (C) A
		SCOP (Heating Energy Grade)		-	SCOP 4.31(A+)	Energy Grade (H) A	Energy Grade (H) A	Energy Grade (H) A
		Pdesignh		kW	10.5			
	Piping Connections	Liquid Pipe		Ø, mm	9.52	9.52	9.52	9.52
				Ø, inch	3/8"	3/8"	3/8"	3/8"
		Gas Pipe		Ø, mm	15.88	15.88	15.88	15.88
				Ø, inch	5/8"	5/8"	5/8"	5/8"
		Installation Limitation	Max. Length (Outdoor to indoor)	m	75(75)	75(75)	75(75)	75(75)
			Max. Height (Between ID/OD)	m	30(30)	30(30)	30(30)	30(30)
	Field Wiring	Power Source Wire		-	4.0 ~ 6.0	2.5 ~ 4.0	1.5 ~ 2.5	2.5 ~ 4.0
		Transmission Cable		-	0.75 ~ 1.25	0.75 ~ 1.25	0.75 ~ 1.25	0.75 ~ 1.25
	Refrigerant	Type		-	R410A	R410A	R410A	R410A
		Control Method		-	-	-	-	-
		Factory Charging		kg	3.80	2.90	2.90	3.40
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	W	-	-	-	-
		Number of Unit		EA	1.00	1.00	1.00	1.00
		Air Flow Rate	High / Mid / Low	CMM	32.00/28.00/22.00	30.00/24.00/19.00	32.00/28.00/22.00	32.00/28.00/22.00
				l/s	533.33/466.67/366.67	500.00/400.00/316.67	533.33/466.67/366.67	533.33/466.67/366.67
		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)	45.00/38.5/32.0	44.00/40.0/36.0	44.00/40.0/36.0	44.00/40.0/36.0
		Sound Power		dB(A)	60	61	61	61
	External Dimension	Net Weight		kg	20.00	18.00	18.00	20.00
		Shipping Weight		kg	25.00	24.00	24.00	26.00
		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		-	PC4NUSKE	PC4NUSKE	PC4NUSKE	PC4NUSKE
		Panel Net Weight		kg	5.90	5.90	5.90	5.90
		Shipping Weight		kg	8.40	8.40	8.40	8.40
		Net Dimensions (W×H×D)		mm	950 x 45 x 950	950 x 45 x 950	950 x 45 x 950	950 x 45 x 950
		Shipping Dimensions (W×H×D)		mm	1005 x 100 x 1005	1005 x 100 x 1005	1005 x 100 x 1005	1005 x 100 x 1005
	Additional Accessories	Drain pump	Drain pump	-	-	-	-	-
			Max. Lifting Height / Displacement	mm/liter/h	-	-	-	-
		Air Filter		-	-	-	-	-
Outdoor Unit	Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50	3, 4, 380-415, 50	1, 2, 220-240, 50
	Compressor	Type		-	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary
		Model		-	UG5T450FXAJXSG	UG5T450FUEJXSG	UG5T450FUFJXSG	UG5T450FUEJXSG
		Output		kW	4.01	4.12	4.12	4.12
		Oil	Type	-	POE	POE	POE	POE
			Initial Charge	cc	1700.00	1700.00	1700.00	1700.00
	Fan	Air Flow Rate	Cooling	CMM	112.00	90.50	90.50	90.50
				l/s	1,866.67	1,508.33	1,508.33	1,508.33
	Sound	Sound Pressure	Cooling / Heating	dB(A)	49.0 / 51.0	51.0 / 52.0	51.0 / 52.0	51.0 / 52.0
		Sound Power		dB(A)	68	68	68	68
	External Dimension	Net Weight		kg	98.00	88.00	91.00	88.00
		Shipping Weight		kg	108.00	98.00	101.00	98.00
		Net Dimensions (WxHxD)		mm	940 x 1420 x 330	940 x 1210 x 330	940 x 1210 x 330	940 x 1210 x 330
		Shipping Dimensions (WxHxD)		mm	1009 x 1578 x 419	995 x 1338 x 426	995 x 1338 x 426	995 x 1338 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

Model Name		Indoor Unit			NS1254PXEA	NS1404DXEA	NS1404DXEA	NS1404PXEA	NS1404PXEA
		Outdoor Unit			RC125PHXGA	RC140DHXEB	RC140DHXGA	RC140PHXEA	RC140PHXGA
System	Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP
	Capacity	Cooling (Min / Std / Max)		kW	3.50/12.50/14.00	3.50/14.00/15.50	3.50/14.00/15.50	4.40/14.00/15.50	4.40/14.00/15.50
				Btu/h	11,900/42,700/47,800	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 (Min / Std / Max)		kW	3.50/14.00/16.20	3.50/16.00/18.00	3.50/16.00/18.00	3.50/16.00/20.00	3.50/16.00/20.00
				Btu/h	11,900/47,800/55,300	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 (Min / Std / Max)	kW	0.80/3.47/4.80	0.80/4.36/5.40	0.80/4.36/5.40	1.05/4.00/5.40	1.05/4.00/5.40
			Heating (Min / Std / Max)		0.70/3.59/4.50	0.70/4.43/6.16	0.70/4.43/6.16	0.87/4.10/6.50	0.87/4.10/6.50
		Current Input (Nominal)	Cooling (Min / Std / Max)	A	2.10/5.80/12.00	3.70/20.00/24.00	2.10/7.50/12.00	4.60/17.80/24.00	2.10/7.10/12.00
			Heating (Min / Std / Max)		2.10/5.80/16.10	3.50/20.00/24.00	2.10/7.40/16.10	4.00/18.70/28.00	2.00/7.20/16.10
		MCA		A	13.00 (MCA)	25.00 (MCA)	13.00 (MCA)	33.00 (MCA)	13.00 (MCA)
		MFA		A	15.00	30.00	15.00	40.00	15.00
	Energy Efficiency	EER (Nominal Cooling)		-	3.60	3.21	3.21	3.50	3.50
		COP (Nominal Heating)		-	3.90	3.61	3.61	3.90	3.90
		SEER (Cooling Energy Grade)		-	Energy Grade (C) A	Energy Grade (C) A	Energy Grade (C) A	Energy Grade (C) A	Energy Grade (C) A
		SCOP (Heating Energy Grade)		-	Energy Grade (H) A	Energy Grade (H) A	Energy Grade (H) A	Energy Grade (H) A	Energy Grade (H) A
		Pdesignh		kW					
	Piping Connections	Liquid Pipe		Ø, mm	9.52	9.52	9.52	9.52	9.52
				Ø, inch	3/8"	3/8"	3/8"	3/8"	3/8"
		Gas Pipe		Ø, mm	15.88	15.88	15.88	15.88	15.88
				Ø, inch	5/8"	5/8"	5/8"	5/8"	5/8"
		Installation Limitation	Max. Length (Outdoor to indoor)	m	75(75)	75(75)	75(75)	75(75)	75(75)
			Max. Height (Between ID/OD)	m	30(30)	30(30)	30(30)	30(30)	30(30)
	Field Wiring	Power Source Wire		-	1.5 ~ 2.5	2.5 ~ 4.0	1.5 ~ 2.5	4.0 ~ 6.0	1.5 ~ 2.5
		Transmission Cable		-	0.75 ~ 1.25	0.75 ~ 1.25	0.75 ~ 1.25	0.75 ~ 1.25	0.75 ~ 1.25
	Refrigerant	Type		-	R410A	R410A	R410A	R410A	R410A
		Control Method		-	-	-	-	-	-
		Factory Charging		kg	3.40	3.40	3.40	3.80	3.80
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	Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan
		Motor	Output	W	-	-	-	-	-
		Number of Unit		EA	1.00	1.00	1.00	1.00	1.00
		Air Flow Rate	High / Mid / Low	CMM	32.00/28.00/22.00	32.00/28.00/22.00	32.00/28.00/22.00	32.00/28.00/22.00	32.00/28.00/22.00
				l/s	533.33/466.67/366.67	533.33/466.67/366.67	533.33/466.67/366.67	533.33/466.67/366.67	533.33/466.67/366.67
		External Static Pressure	Min / Std / Max	mmAq	-	-	-	-	-
				Pa	-	-	-	-	-
	Drain	Drain Pipe		Ø,mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
	Sound	Sound Pressure	High / Mid / Low	dB(A)	44.00/40.0/36.0	45.00/41.5/38.0	45.00/41.5/38.0	45.00/41.5/38.0	45.00/41.5/38.0
		Sound Power		dB(A)	61	61	61	62	62
	External Dimension	Net Weight		kg	20.00	20.00	20.00	20.00	21.00
		Shipping Weight		kg	26.00	26.00	26.00	26.00	26.00
		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		-	PC4NUSKE	PC4NUSKE	PC4NUSKE	PC4NUSKE	PC4NUSKE
		Panel Net Weight		kg	5.90	5.90	5.90	5.90	5.90
		Shipping Weight		kg	8.40	8.40	8.40	8.40	8.40
		Net Dimensions (W×H×D)		mm	950 x 45 x 950	950 x 45 x 950	950 x 45 x 950	950 x 45 x 950	950 x 45 x 950
		Shipping Dimensions (W×H×D)		mm	1005 x 100 x 1005	1005 x 100 x 1005	1005 x 100 x 1005	1005 x 100 x 1005	1005 x 100 x 1005
	Additional Accessories	Drain pump	Drain pump	-	-	-	-	-	-
			Max. Lifting Height / Displacement	mm/liter/h	-	-	-	-	-
		Air Filter		-	-	-	-	-	-
Outdoor Unit	Power Supply			Ø, #, V, Hz	3, 4, 380-415, 50	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	Twin BLDC Rotary
		Model		-	UG5T450FUFJXSG	UG5T450FUEJXSG	UG5T450FUFJXSG	UG5T450FXAJXSG	UG5T450FXAJXSG
		Output		kW	4.12	4.12	4.12	4.01	4.01
		Oil	Type	-	POE	POE	POE	POE	POE
			Initial Charge	cc	1700.00	1700.00	1700.00	1700.00	1700.00
	Fan	Air Flow Rate	Cooling	CMM	90.50	90.50	90.50	101.00	101.00
				l/s	1,508.33	1,508.33	1,508.33	1,683.33	1,683.33
	Sound	Sound Pressure	Cooling / Heating	dB(A)	51.0 / 52.0	52.0 / 54.0	52.0 / 54.0	51.0 / 53.0	51.0 / 53.0
		Sound Power		dB(A)	68	69	69	71	71
	External Dimension	Net Weight		kg	91.00	88.00	91.00	98.00	101.00
		Shipping Weight		kg	101.00	98.00	101.00	108.00	111.00
		Net Dimensions (WxHxD)		mm	940 x 1210 x 330	940 x 1210 x 330	940 x 1210 x 330	940 x 1420 x 330	940 x 1420 x 330
		Shipping Dimensions (WxHxD)		mm	995 x 1338 x 426	995 x 1338 x 426	995 x 1338 x 426	1009 x 1548 x 419	1009 x 1548 x 419
	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

3-2. Capacity tables

1) AC052FCADEU/EU + AC052FB4DEH/EU

(1) Cooling

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

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)											
		-15			21			35			46		
WB	DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	5.35	4.01	1.66	5.25	3.94	1.59	4.74	3.56	1.43	3.86	2.89	1.81
16	22	5.48	4.11	1.71	5.38	4.04	1.63	4.86	3.64	1.47	3.95	2.96	1.86
18	25	5.61	4.21	1.75	5.51	4.14	1.67	4.98	3.73	1.50	4.05	3.04	1.90
19	27	5.75	4.31	1.79	5.65	4.24	1.71	5.10	3.83	1.54	4.15	3.11	1.95
22	30	5.89	4.42	1.83	5.79	4.34	1.75	5.22	3.92	1.58	4.25	3.19	2.00
24	32	6.03	4.52	1.88	5.92	4.44	1.79	5.35	4.01	1.61	4.35	3.26	2.04

(2) Heating

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

Indoor Temperature(°C)	Outdoor Temperature (°C, DB)							
	-15		-10		7		24	
DB	TC	PI	TC	PI	TC	PI	TC	PI
16	4.77	2.50	5.70	2.02	5.81	1.49	6.24	1.31
18	4.73	2.47	5.65	2.00	5.76	1.47	6.18	1.29
20	4.68	2.45	5.59	1.98	5.70	1.46	6.12	1.28
21	4.63	2.43	5.53	1.96	5.64	1.45	6.06	1.27
22	4.59	2.40	5.48	1.94	5.59	1.43	6.00	1.25
24	4.54	2.38	5.42	1.92	5.53	1.42	5.94	1.24

2) AC071FCADEH/EU + AC071FB4DEH/EU

(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	6.83	5.13	1.67	7.29	5.47	1.59	6.60	4.95	2.05	6.70	5.03	2.93	5.28	3.96	2.90
16	22	7.00	5.25	1.71	7.47	5.60	1.63	6.76	5.07	2.11	6.87	5.15	3.00	5.41	4.06	2.97
18	25	7.17	5.38	1.75	7.65	5.74	1.67	6.93	5.20	2.16	7.03	5.28	3.07	5.54	4.16	3.05
19	27	7.35	5.51	1.79	7.84	5.88	1.71	7.10	5.33	2.21	7.21	5.41	3.15	5.68	4.26	3.12
22	30	7.53	5.64	1.84	8.03	6.02	1.75	7.27	5.45	2.26	7.38	5.53	3.23	5.82	4.36	3.19
24	32	7.71	5.78	1.88	8.22	6.16	1.80	7.44	5.58	2.32	7.56	5.67	3.30	5.96	4.47	3.27

(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	2.81	6.58	2.81	8.16	2.26	9.16	2.19
18	4.45	2.78	6.52	2.78	8.08	2.24	9.07	2.17
20	4.40	2.75	6.45	2.76	8.00	2.22	8.98	2.15
21	4.36	2.72	6.39	2.73	7.92	2.20	8.89	2.13
22	4.32	2.70	6.32	2.70	7.84	2.18	8.80	2.11
24	4.27	2.67	6.26	2.67	7.76	2.15	8.71	2.09

☑ ***Note***

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

3) AC071FCAPEH/EU + AC071FB4PEH/EU

(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	7.76	5.82	1.67	7.64	5.73	1.65	6.60	4.95	1.83	6.49	4.87	2.97	5.30	3.98	2.61
16	22	7.95	5.97	1.71	7.83	5.87	1.69	6.76	5.07	1.88	6.65	4.99	3.04	5.43	4.08	2.68
18	25	8.15	6.11	1.76	8.02	6.01	1.73	6.93	5.20	1.92	6.81	5.11	3.12	5.57	4.18	2.74
19	27	8.35	6.26	1.80	8.22	6.16	1.77	7.10	5.33	1.97	6.98	5.24	3.19	5.71	4.28	2.81
22	30	8.55	6.41	1.84	8.41	6.31	1.81	7.27	5.45	2.02	7.15	5.36	3.27	5.84	4.38	2.88
24	32	8.76	6.57	1.89	8.61	6.46	1.86	7.44	5.58	2.07	7.32	5.49	3.35	5.98	4.49	2.95

(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	5.25	2.61	6.72	2.62	8.16	2.14	9.23	2.35
18	5.20	2.59	6.65	2.60	8.08	2.12	9.14	2.33
20	5.15	2.56	6.58	2.57	8.00	2.10	9.05	2.30
21	5.10	2.53	6.52	2.55	7.92	2.08	8.96	2.28
22	5.05	2.51	6.45	2.52	7.84	2.06	8.87	2.26
24	5.00	2.48	6.39	2.50	7.76	2.04	8.78	2.24

4) AC090FCADEH/EU + AC090FB4DEH/EU

(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	9.72	7.77	2.75	8.37	6.69	2.78	7.99	6.39	3.89	6.65	5.32	3.41
16	22	9.86	7.89	2.02	9.95	7.96	2.82	8.57	6.86	2.85	8.18	6.55	3.99	6.81	5.45	3.50
18	25	10.11	8.09	2.07	10.20	8.16	2.89	8.78	7.03	2.92	8.38	6.71	4.09	6.98	5.58	3.58
19	27	10.36	8.28	2.12	10.45	8.36	2.96	9.00	7.20	2.99	8.59	6.87	4.19	7.15	5.72	3.67
22	30	10.60	8.48	2.17	10.70	8.56	3.03	9.22	7.37	3.06	8.80	7.04	4.29	7.32	5.86	3.76
24	32	10.86	8.69	2.22	10.96	8.77	3.10	9.44	7.55	3.14	9.01	7.21	4.39	7.50	6.00	3.85

(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	6.68	4.05	9.29	4.17	10.20	2.99	10.75	2.79
18	6.62	4.01	9.20	4.13	10.10	2.96	10.65	2.76
20	6.55	3.97	9.11	4.09	10.00	2.93	10.54	2.74
21	6.48	3.93	9.02	4.05	9.90	2.90	10.43	2.71
22	6.42	3.89	8.93	4.00	9.80	2.87	10.33	2.68
24	6.36	3.85	8.84	3.96	9.70	2.84	10.23	2.65

☑ ***Note***

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

3-2. Capacity tables

5) RC140PHXEA + NS1404PXEA

(1) Cooling

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

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)														
		-15			21			35			43			50		
WB	DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	9.99	7.99	1.87	10.09	8.07	2.78	8.37	6.69	2.32	8.35	6.68	4.08	7.03	5.62	3.77
16	22	10.23	8.19	1.92	10.34	8.27	2.85	8.57	6.86	2.38	8.55	6.84	4.18	7.20	5.76	3.86
18	25	10.48	8.39	1.96	10.59	8.47	2.92	8.78	7.03	2.44	8.76	7.01	4.28	7.38	5.90	3.95
19	27	10.74	8.59	2.01	10.85	8.68	2.99	9.00	7.20	2.50	8.98	7.18	4.39	7.56	6.05	4.05
22	30	11.00	8.80	2.06	11.11	8.89	3.06	9.22	7.37	2.56	9.20	7.36	4.49	7.74	6.19	4.15
24	32	11.26	9.01	2.11	11.38	9.10	3.14	9.44	7.55	2.62	9.42	7.53	4.60	7.93	6.34	4.25

(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	7.29	3.52	9.77	3.83	10.20	2.55	12.39	2.88
18	7.22	3.48	9.68	3.79	10.10	2.53	12.27	2.85
20	7.15	3.45	9.58	3.76	10.00	2.50	12.15	2.82
21	7.08	3.42	9.48	3.72	9.90	2.48	12.03	2.79
22	7.01	3.38	9.39	3.68	9.80	2.45	11.91	2.76
24	6.94	3.35	9.30	3.65	9.70	2.43	11.79	2.74

6) RC140PHXGA + NS1404PXEA

(1) Cooling

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

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)														
		-15			21			35			43			50		
WB	DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	10.75	8.60	2.28	11.37	9.10	3.21	9.30	7.44	3.09	8.56	6.84	4.28	7.03	5.62	3.86
16	22	11.01	8.81	2.33	11.65	9.32	3.29	9.53	7.62	3.16	8.77	7.01	4.38	7.20	5.76	3.95
18	25	11.28	9.03	2.39	11.94	9.55	3.37	9.76	7.81	3.24	8.98	7.18	4.49	7.38	5.90	4.05
19	27	11.56	9.25	2.45	12.23	9.78	3.45	10.00	8.00	3.32	9.20	7.36	4.60	7.56	6.05	4.15
22	30	11.84	9.47	2.51	12.52	10.02	3.53	10.24	8.19	3.40	9.42	7.54	4.71	7.74	6.19	4.25
24	32	12.12	9.70	2.57	12.83	10.26	3.62	10.49	8.39	3.48	9.65	7.72	4.83	7.93	6.34	4.35

(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	3.35	13.83	4.19
18	7.88	4.24	10.11	4.71	11.31	3.31	13.70	4.15
20	7.80	4.20	10.01	4.66	11.20	3.28	13.56	4.11
21	7.72	4.16	9.91	4.61	11.09	3.25	13.42	4.07
22	7.64	4.12	9.81	4.57	10.98	3.21	13.29	4.03
24	7.57	4.08	9.71	4.52	10.87	3.18	13.16	3.99

☑ *Note*

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

7) AC100FCADGH/EU + AC100FB4DEH/EU

(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	10.46	8.37	2.18	10.92	8.74	2.93	9.30	7.44	3.09	8.86	7.09	4.24	7.21	5.76	3.95
16	22	10.72	8.57	2.24	11.19	8.95	3.00	9.53	7.62	3.16	9.08	7.26	4.34	7.38	5.91	4.05
18	25	10.98	8.78	2.29	11.47	9.17	3.07	9.76	7.81	3.24	9.30	7.44	4.45	7.56	6.05	4.15
19	27	11.25	9.00	2.35	11.75	9.40	3.15	10.00	8.00	3.32	9.53	7.63	4.56	7.75	6.20	4.25
22	30	11.52	9.22	2.41	12.03	9.63	3.23	10.24	8.19	3.40	9.76	7.81	4.67	7.94	6.35	4.35
24	32	11.80	9.44	2.46	12.32	9.86	3.30	10.49	8.39	3.48	10.00	8.00	4.78	8.13	6.50	4.46

(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	8.14	4.36	10.39	4.88	11.43	3.35	13.52	3.86
18	8.06	4.31	10.28	4.83	11.31	3.31	13.38	3.82
20	7.98	4.27	10.18	4.78	11.20	3.28	13.25	3.78
21	7.90	4.23	10.08	4.73	11.09	3.25	13.12	3.74
22	7.82	4.19	9.98	4.69	10.98	3.21	12.99	3.70
24	7.74	4.15	9.88	4.64	10.87	3.18	12.86	3.67

8) AC100FCAPEH/EU + AC100FB4PEH/EU

(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	8.91	7.13	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	9.13	7.30	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	9.35	7.48	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	9.58	7.66	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	9.81	7.85	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	10.05	8.04	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

☑ ***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) AC100FCAPGH/EU + AC100FB4PEH/EU

(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	11.14	8.91	1.81	11.62	9.30	3.02	9.30	7.44	2.32	9.34	7.47	4.26	7.03	5.62	3.42
16	22	11.41	9.13	1.86	11.91	9.53	3.10	9.53	7.62	2.38	9.57	7.66	4.36	7.20	5.76	3.51
18	25	11.69	9.35	1.90	12.20	9.76	3.17	9.76	7.81	2.44	9.81	7.85	4.47	7.38	5.90	3.59
19	27	11.98	9.58	1.95	12.50	10.00	3.25	10.00	8.00	2.50	10.05	8.04	4.58	7.56	6.05	3.68
22	30	12.27	9.81	2.00	12.80	10.24	3.33	10.24	8.19	2.56	10.29	8.23	4.69	7.74	6.19	3.77
24	32	12.56	10.05	2.04	13.11	10.49	3.41	10.49	8.39	2.62	10.54	8.43	4.80	7.93	6.34	3.86

(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	4.95	11.27	4.85	11.43	2.65	15.66	3.32
18	10.91	4.90	11.16	4.80	11.31	2.63	15.50	3.28
20	10.80	4.85	11.05	4.75	11.20	2.60	15.35	3.25
21	10.69	4.80	10.94	4.70	11.09	2.57	15.20	3.22
22	10.59	4.75	10.83	4.66	10.98	2.55	15.04	3.19
24	10.48	4.71	10.72	4.61	10.87	2.52	14.89	3.15

10) AC100FCAFEH/EU + AC100FB4FEH/EU

(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	11.20	8.96	1.63	9.84	7.87	2.24	9.30	7.44	2.21	8.65	6.92	3.11	8.38	6.70	4.14
16	22	11.48	9.18	1.67	10.08	8.06	2.30	9.53	7.62	2.27	8.86	7.09	3.19	8.58	6.87	4.24
18	25	11.76	9.41	1.71	10.33	8.26	2.36	9.76	7.81	2.32	9.08	7.26	3.27	8.79	7.04	4.34
19	27	12.05	9.64	1.75	10.58	8.46	2.41	10.00	8.00	2.38	9.30	7.44	3.35	9.01	7.21	4.45
22	30	12.34	9.87	1.80	10.83	8.67	2.47	10.24	8.19	2.44	9.53	7.62	3.43	9.23	7.38	4.56
24	32	12.64	10.11	1.84	11.09	8.88	2.53	10.49	8.39	2.50	9.75	7.80	3.51	9.45	7.56	4.67

(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	10.04	4.35	13.40	5.38	11.43	2.51	14.75	2.75
18	9.94	4.31	13.26	5.33	11.31	2.48	14.60	2.72
20	9.84	4.27	13.13	5.28	11.20	2.46	14.46	2.69
21	9.74	4.23	13.00	5.22	11.09	2.44	14.31	2.67
22	9.64	4.18	12.87	5.17	10.98	2.41	14.17	2.64
24	9.55	4.14	12.74	5.12	10.87	2.39	14.03	2.61

☑ *Note*

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

11) 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	12.61	10.09	2.28	13.06	10.45	3.21	11.62	9.30	3.62	9.34	7.47	4.24	7.03	5.62	3.49
16	22	12.92	10.33	2.34	13.38	10.71	3.29	11.91	9.53	3.71	9.57	7.66	4.34	7.20	5.76	3.57
18	25	13.23	10.59	2.39	13.71	10.97	3.37	12.20	9.76	3.80	9.81	7.85	4.45	7.38	5.90	3.66
19	27	13.56	10.85	2.45	14.05	11.24	3.45	12.50	10.00	3.89	10.05	8.04	4.56	7.56	6.05	3.75
22	30	13.89	11.11	2.51	14.39	11.51	3.53	12.80	10.24	3.98	10.29	8.23	4.67	7.74	6.19	3.84
24	32	14.22	11.37	2.57	14.73	11.79	3.62	13.11	10.49	4.08	10.54	8.43	4.78	7.93	6.34	3.93

(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	10.97	5.08	11.49	5.25	14.28	3.96	16.41	4.06
18	10.86	5.03	11.37	5.19	14.14	3.92	16.25	4.02
20	10.75	4.98	11.26	5.14	14.00	3.88	16.09	3.98
21	10.64	4.93	11.15	5.09	13.86	3.84	15.93	3.94
22	10.54	4.88	11.04	5.04	13.72	3.80	15.77	3.90
24	10.43	4.83	10.93	4.99	13.58	3.76	15.61	3.86

12) 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	12.63	10.11	2.31	13.34	10.67	3.32	11.62	9.30	3.62	9.53	7.62	4.74	7.10	5.68	3.58
16	22	12.95	10.36	2.37	13.66	10.93	3.40	11.91	9.53	3.71	9.76	7.81	4.86	7.27	5.82	3.67
18	25	13.26	10.61	2.43	14.00	11.20	3.48	12.20	9.76	3.80	10.00	8.00	4.97	7.45	5.96	3.76
19	27	13.59	10.87	2.49	14.35	11.48	3.57	12.50	10.00	3.89	10.25	8.20	5.10	7.64	6.11	3.85
22	30	13.92	11.13	2.55	14.69	11.75	3.66	12.80	10.24	3.98	10.50	8.40	5.22	7.82	6.25	3.94
24	32	14.25	11.40	2.61	15.04	12.03	3.74	13.11	10.49	4.08	10.75	8.60	5.34	8.01	6.40	4.04

(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	10.79	5.43	11.91	5.24	14.28	3.96	16.34	4.09
18	10.69	5.38	11.80	5.19	14.14	3.92	16.18	4.05
20	10.58	5.32	11.68	5.14	14.00	3.88	16.02	4.01
21	10.47	5.27	11.56	5.09	13.86	3.84	15.86	3.97
22	10.37	5.22	11.45	5.04	13.72	3.80	15.70	3.93
24	10.27	5.17	11.33	4.99	13.58	3.76	15.54	3.89

☑ ***Note***

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

3-2. Capacity tables

13) RC125PHXEA + NS1254PXEA

(1) Cooling

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

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)														
		-15			21			35			43			50		
WB	DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	12.63	10.11	1.94	13.25	10.60	3.21	11.62	9.30	3.23	10.40	8.32	4.26	7.31	5.85	3.67
16	22	12.95	10.36	1.99	13.57	10.86	3.29	11.91	9.53	3.31	10.66	8.53	4.36	7.49	5.99	3.76
18	25	13.26	10.61	2.03	13.91	11.13	3.37	12.20	9.76	3.39	10.92	8.74	4.47	7.67	6.14	3.86
19	27	13.59	10.87	2.08	14.25	11.40	3.45	12.50	10.00	3.47	11.19	8.95	4.58	7.86	6.29	3.95
22	30	13.92	11.13	2.13	14.59	11.67	3.53	12.80	10.24	3.55	11.46	9.17	4.69	8.05	6.44	4.04
24	32	14.25	11.40	2.19	14.94	11.95	3.62	13.11	10.49	3.64	11.73	9.39	4.80	8.24	6.59	4.14

(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

14) RC125PHXGA + NS1254PXEA

(1) Cooling

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

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)														
		-15			21			35			43			50		
WB	DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	12.62	10.09	2.09	13.16	10.52	3.02	11.62	9.30	3.23	10.41	8.33	4.28	7.39	5.91	3.77
16	22	12.93	10.34	2.14	13.48	10.78	3.10	11.91	9.53	3.31	10.67	8.54	4.38	7.57	6.06	3.86
18	25	13.24	10.60	2.20	13.81	11.05	3.17	12.20	9.76	3.39	10.93	8.74	4.49	7.76	6.21	3.95
19	27	13.57	10.86	2.25	14.15	11.32	3.25	12.50	10.00	3.47	11.20	8.96	4.60	7.95	6.36	4.05
22	30	13.90	11.12	2.30	14.49	11.59	3.33	12.80	10.24	3.55	11.47	9.18	4.71	8.14	6.51	4.15
24	32	14.23	11.38	2.36	14.84	11.87	3.41	13.11	10.49	3.64	11.74	9.40	4.82	8.34	6.67	4.25

(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.

15) 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	13.93	11.14	3.52	14.88	11.91	4.42	13.02	10.41	4.05	12.69	10.15	4.60	7.90	6.32	4.04
16	22	14.27	11.42	3.61	15.25	12.20	4.53	13.34	10.67	4.15	13.00	10.40	4.72	8.10	6.48	4.14
18	25	14.62	11.70	3.70	15.62	12.50	4.64	13.66	10.93	4.26	13.32	10.66	4.83	8.30	6.64	4.25
19	27	14.98	11.98	3.79	16.01	12.81	4.75	14.00	11.20	4.36	13.65	10.92	4.95	8.50	6.80	4.35
22	30	15.34	12.27	3.88	16.39	13.11	4.87	14.34	11.47	4.46	13.98	11.18	5.07	8.70	6.96	4.45
24	32	15.71	12.57	3.97	16.78	13.43	4.98	14.68	11.74	4.57	14.31	11.45	5.19	8.91	7.13	4.56

(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	17.64	4.16
18	12.12	6.26	13.45	6.07	16.16	4.47	17.46	4.12
20	12.00	6.20	13.31	6.01	16.00	4.43	17.29	4.08
21	11.88	6.14	13.18	5.95	15.84	4.39	17.12	4.04
22	11.76	6.08	13.05	5.89	15.68	4.34	16.94	4.00
24	11.64	6.02	12.92	5.83	15.52	4.30	16.78	3.96

16) 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	13.90	11.12	3.53	14.88	11.91	4.42	13.02	10.41	4.05	12.69	10.15	4.60	7.90	6.32	4.04
16	22	14.24	11.39	3.62	15.25	12.20	4.53	13.34	10.67	4.15	13.00	10.40	4.72	8.10	6.48	4.14
18	25	14.59	11.67	3.71	15.62	12.50	4.64	13.66	10.93	4.26	13.32	10.66	4.83	8.30	6.64	4.25
19	27	14.95	11.96	3.80	16.01	12.81	4.75	14.00	11.20	4.36	13.65	10.92	4.95	8.50	6.80	4.35
22	30	15.31	12.25	3.89	16.39	13.11	4.87	14.34	11.47	4.46	13.98	11.18	5.07	8.70	6.96	4.45
24	32	15.68	12.54	3.98	16.78	13.43	4.98	14.68	11.74	4.57	14.31	11.45	5.19	8.91	7.13	4.56

(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	17.64	4.16
18	12.63	6.46	13.45	6.07	16.16	4.47	17.46	4.12
20	12.50	6.40	13.31	6.01	16.00	4.43	17.29	4.08
21	12.38	6.34	13.18	5.95	15.84	4.39	17.12	4.04
22	12.25	6.27	13.05	5.89	15.68	4.34	16.94	4.00
24	12.13	6.21	12.92	5.83	15.52	4.30	16.78	3.96

☑ *Note*

◆ Ratings shown are net capacities.

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

3-2. Capacity tables

17) RC140PHXEA + AC100FB4PEH/EU

(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	14.09	11.27	3.49	14.92	11.94	3.69	13.02	10.41	3.72	12.82	10.25	5.71	8.38	6.70	4.14
16	22	14.43	11.55	3.57	15.29	12.23	3.78	13.34	10.67	3.81	13.13	10.50	5.85	8.58	6.87	4.24
18	25	14.79	11.83	3.66	15.66	12.53	3.87	13.66	10.93	3.90	13.45	10.76	5.99	8.79	7.04	4.34
19	27	15.15	12.12	3.75	16.05	12.84	3.97	14.00	11.20	4.00	13.78	11.03	6.14	9.01	7.21	4.45
22	30	15.51	12.41	3.84	16.44	13.15	4.07	14.34	11.47	4.10	14.11	11.29	6.29	9.23	7.38	4.56
24	32	15.89	12.71	3.93	16.83	13.46	4.16	14.68	11.74	4.19	14.45	11.56	6.44	9.45	7.56	4.67

(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	6.43	14.49	7.15	16.32	4.18	18.62	5.05
18	12.63	6.36	14.35	7.08	16.16	4.14	18.43	5.00
20	12.50	6.30	14.21	7.01	16.00	4.10	18.25	4.95
21	12.38	6.24	14.06	6.94	15.84	4.06	18.07	4.90
22	12.25	6.17	13.92	6.87	15.68	4.02	17.89	4.85
24	12.13	6.11	13.78	6.80	15.52	3.98	17.71	4.80

18) RC140DHXEB + AC100FB4DEH/EU

(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	14.09	11.27	3.49	14.92	11.94	3.69	13.02	10.41	3.72	12.82	10.25	5.71	8.38	6.70	4.14
16	22	14.43	11.55	3.57	15.29	12.23	3.78	13.34	10.67	3.81	13.13	10.50	5.85	8.58	6.87	4.24
18	25	14.79	11.83	3.66	15.66	12.53	3.87	13.66	10.93	3.90	13.45	10.76	5.99	8.79	7.04	4.34
19	27	15.15	12.12	3.75	16.05	12.84	3.97	14.00	11.20	4.00	13.78	11.03	6.14	9.01	7.21	4.45
22	30	15.51	12.41	3.84	16.44	13.15	4.07	14.34	11.47	4.10	14.11	11.29	6.29	9.23	7.38	4.56
24	32	15.89	12.71	3.93	16.83	13.46	4.16	14.68	11.74	4.19	14.45	11.56	6.44	9.45	7.56	4.67

(2) Heating

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

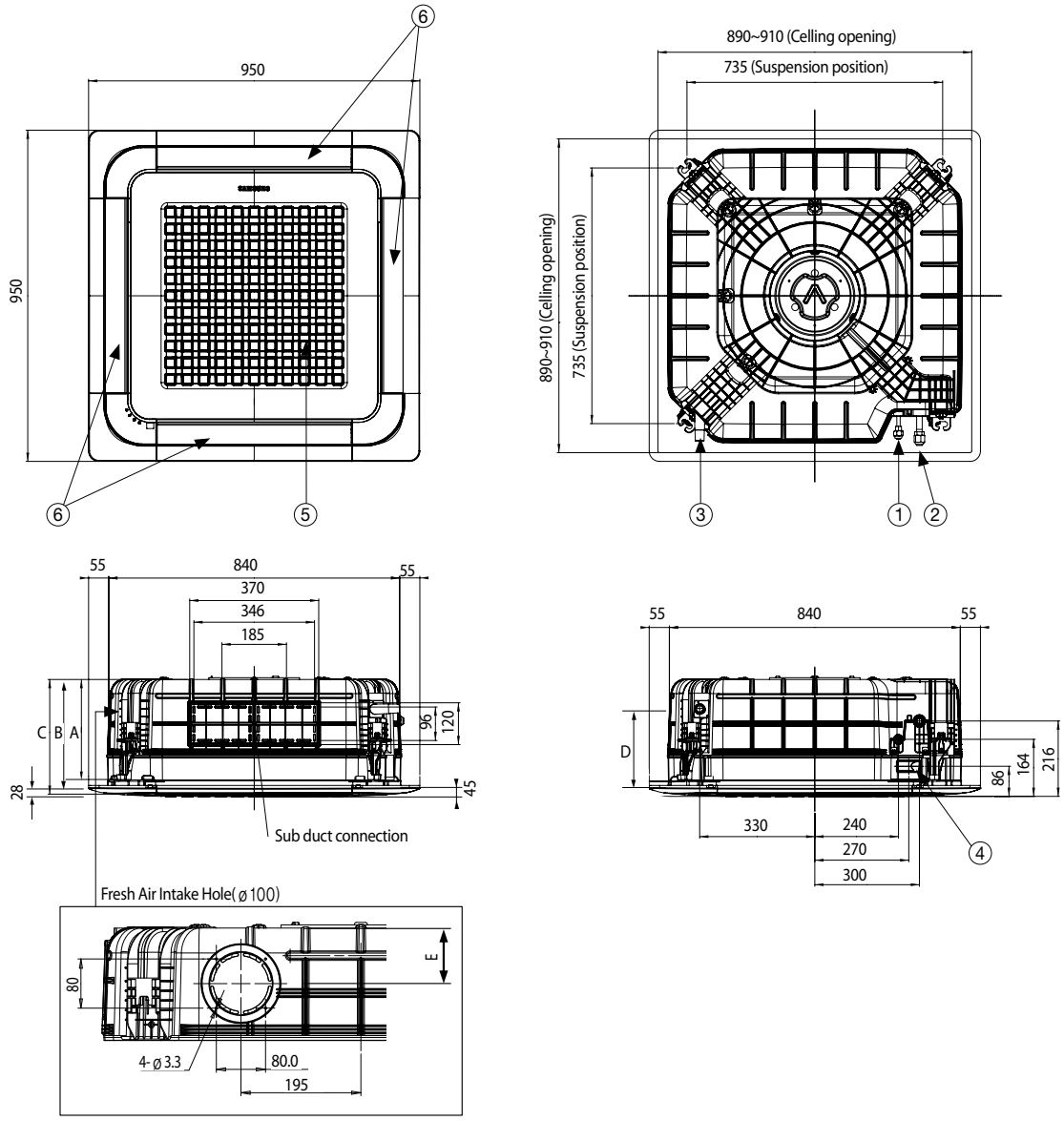
Indoor Temperature(°C)	Outdoor Temperature (°C, DB)							
	-20		-10		7		24	
DB	TC	PI	TC	PI	TC	PI	TC	PI
16	12.75	6.43	14.49	7.15	16.32	4.18	18.62	5.05
18	12.63	6.36	14.35	7.08	16.16	4.14	18.43	5.00
20	12.50	6.30	14.21	7.01	16.00	4.10	18.25	4.95
21	12.38	6.24	14.06	6.94	15.84	4.06	18.07	4.90
22	12.25	6.17	13.92	6.87	15.68	4.02	17.89	4.85
24	12.13	6.11	13.78	6.80	15.52	3.98	17.71	4.80

☑ ***Note***

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

3-3 . Dimensional drawing

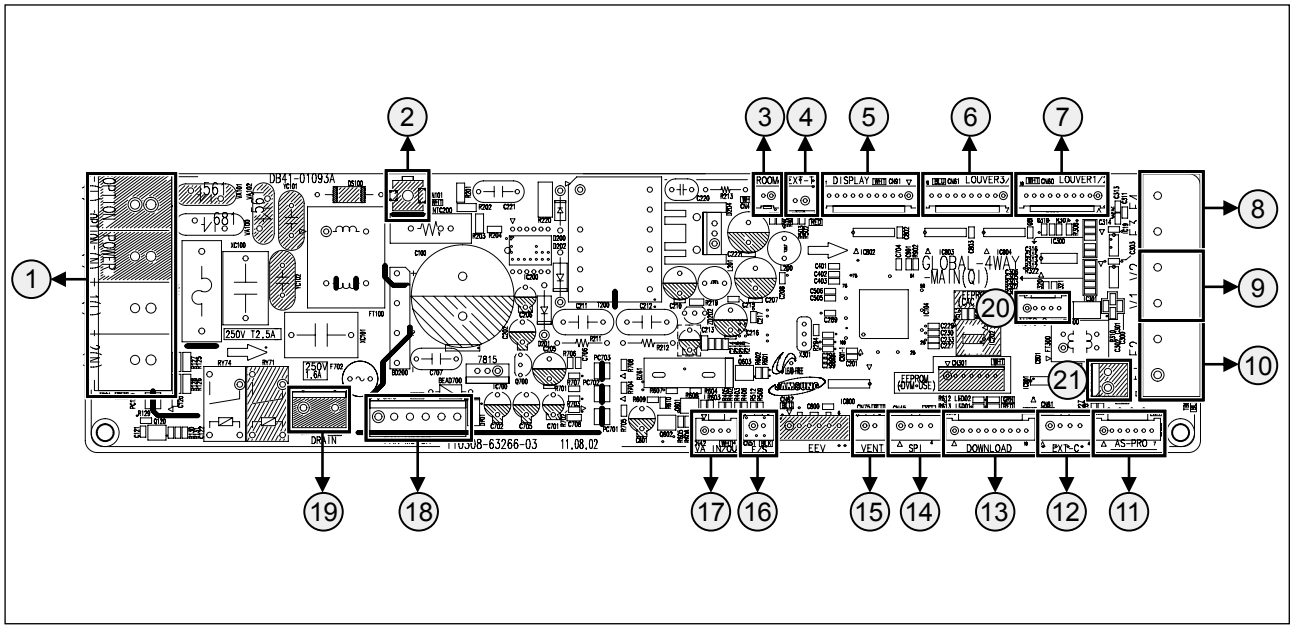
Unit:mm



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. PCB connector lay-out



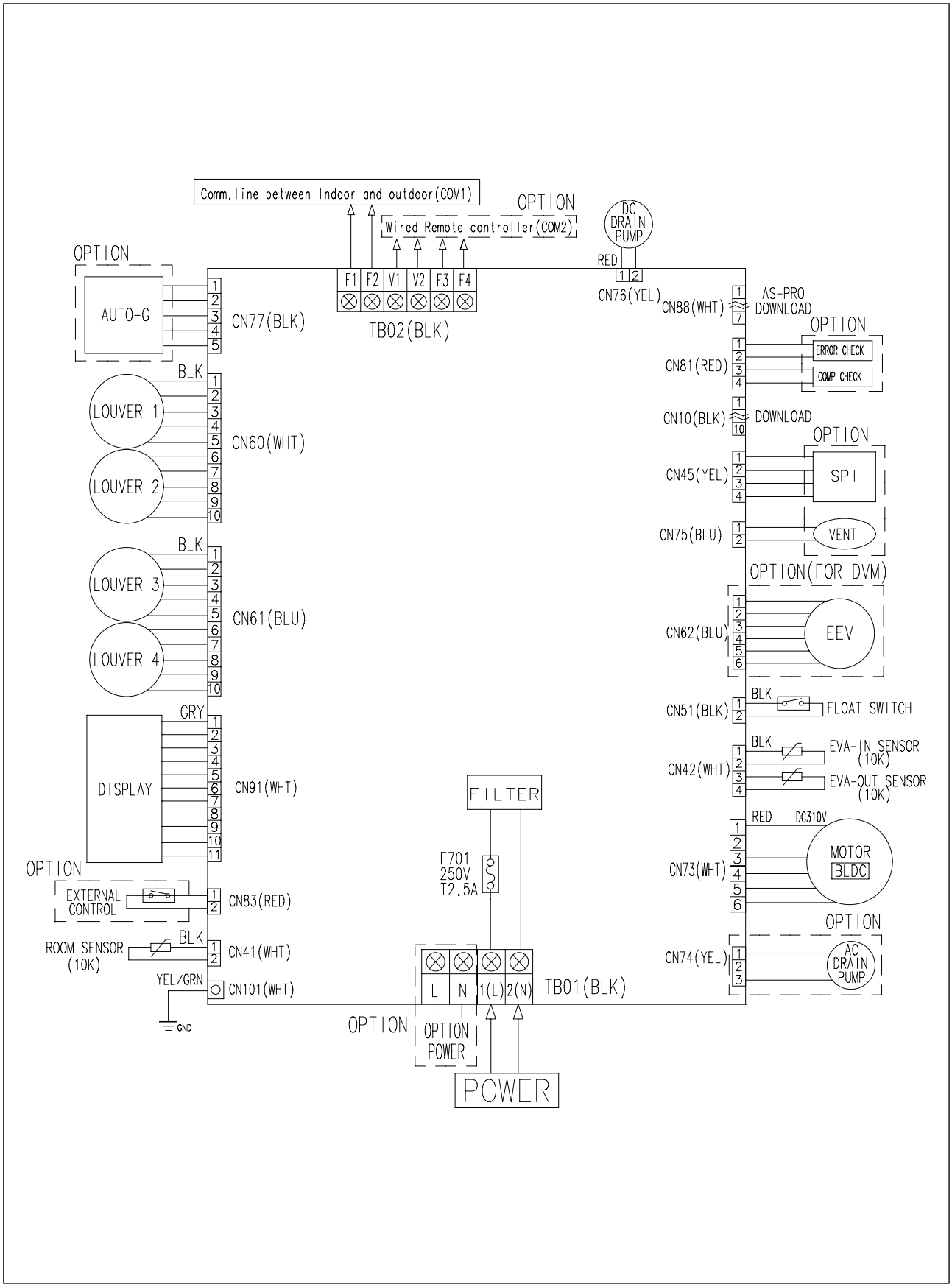
➘ AC

No.	CN #	Color	Function
①	TB01	BLK	1(L), 2(N) : Input POWER L, N : Auto Grill Power
②	CN101	WHT	Earth Wire
⑲	CN73	WHT	BLDC Fan Motor

➘ DC

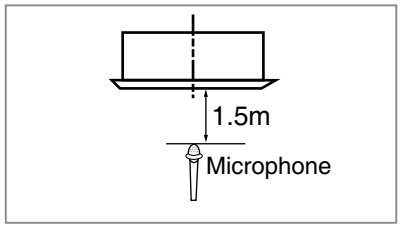
No.	CN #	Color	Function
③	CN41	WHT	ROOM Temp. sensor
④	CN83	RED	External Control(On/Off)
⑤	CN91	WHT	Panel Display
⑥	CN61	BLU	Louver 3/4
⑦	CN60	WHT	Louver 1/2
⑧	TB02	BLK	COM1
⑨			DC12V
⑩			COM2
⑪	CN88	WHT	Micom-Download(AS-PRO)
⑫	CN81	RED	Error Check, Oper. Check
⑬	CN10	BLK	Micom-Download
⑭	CN45	YEL	SPi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

3-5. Electrical wiring diagram



3-6. Sound pressure level

1) Operation sound level



Unit : dB(A)

Model	High	Low
AC052FB4DEU/EU	35	29
AC071FB4DEH/EU	37	30
AC071FB4PEH/EU	37	28
AC090FB4DEH/EU	40	32
AC090FB4PEH/EU	42	32
AC100FB4DEH/EU	44	34

Unit : dB(A)

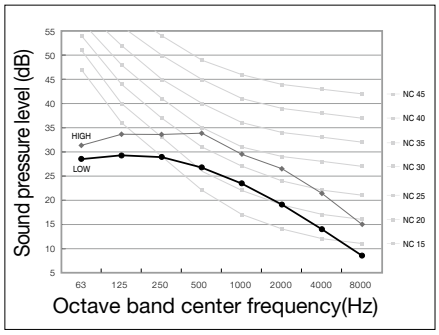
Model	High	Low
AC100FB4PEH/EU	44	34
AC100FB4FEH/EU	45	32
NS1254DXEA	44	36
NS1254PXEA	44	36
NS1404DXEA	45	38
NS1404PXEA	45	38

☑ *Note*

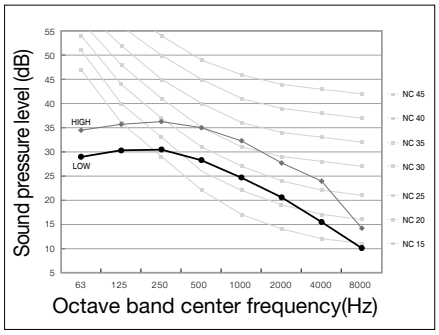
- ◆ These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- ◆ Operation sound level may differ depending on operation and ambient conditions.

2) NC curves

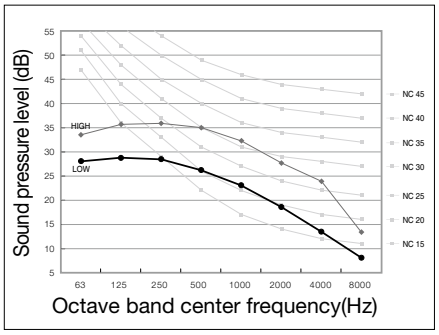
(1) AC052FB4DEU/EU



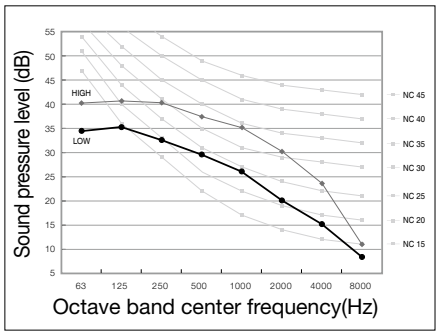
(2) AC071FB4DEH/EU



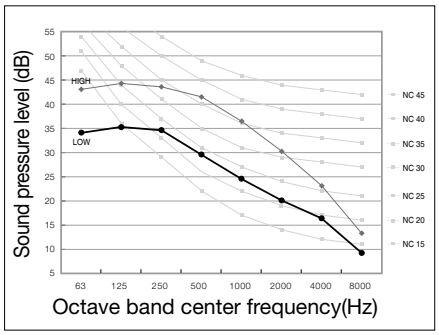
(3) AC071FB4PEH/EU



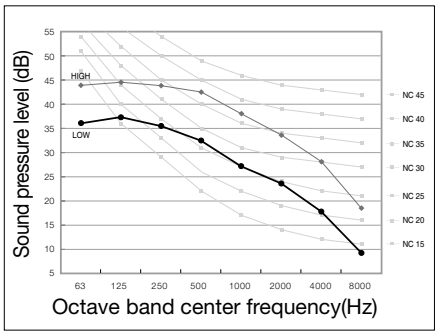
(4) AC090FB4DEH/EU



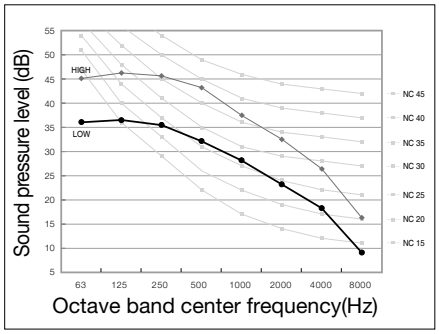
(5) AC090FB4PEH/EU



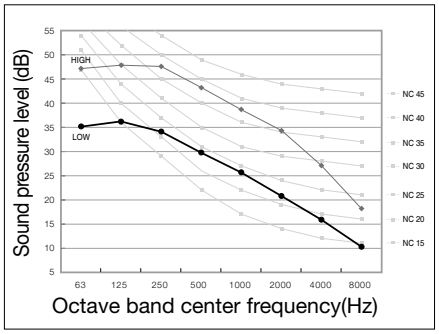
(6) AC100FB4DEH/EU



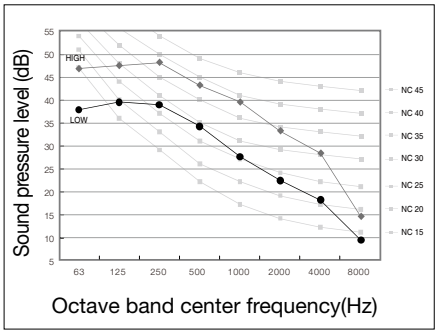
(7) AC100FB4PEH/EU



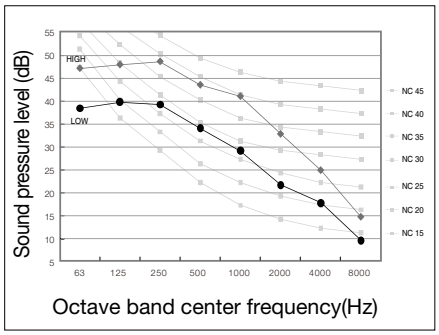
(8) AC100FB4FEH/EU



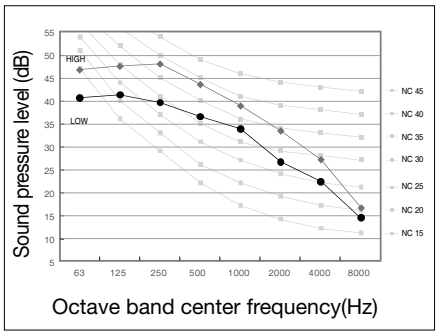
(9) NS1254DXEA



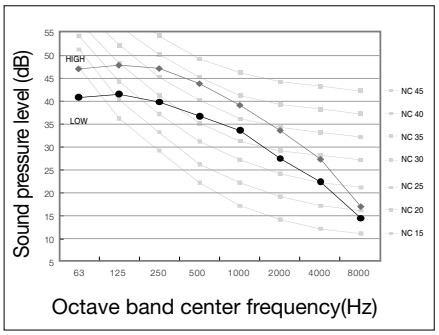
(10) NS1254PXEA



(11) NS1404DXEA



(12) NS1404PXEA

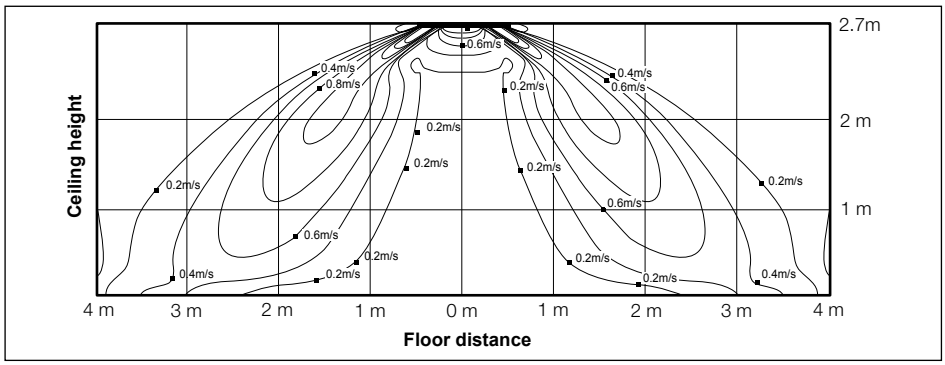


3-7. Temperature and air flow distribution

1) AC052FB4DEH/EU, AC071FB4DEH/EU

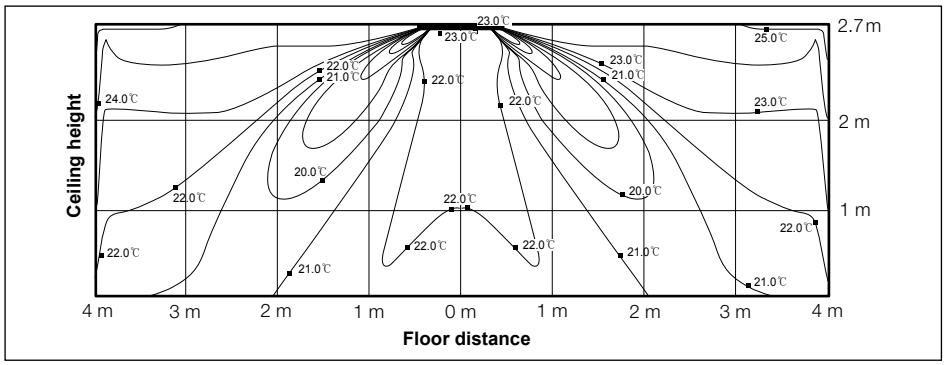
(1) Cooling air velocity distribution

◆ Discharge angle : 45°



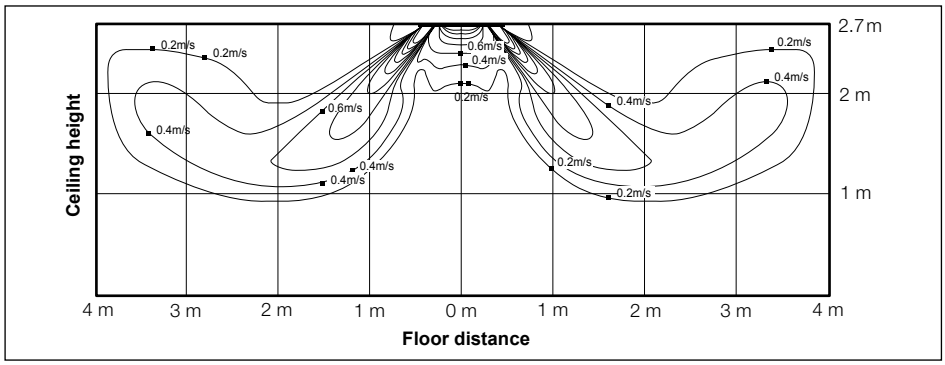
(2) Cooling temperature distribution

◆ Discharge angle : 45°



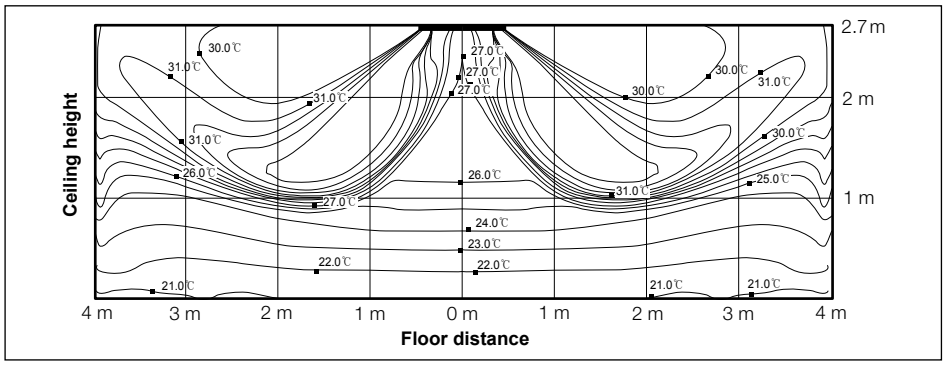
(3) Heating air velocity distribution

◆ Discharge angle : 52°



(4) Heating temperature distribution

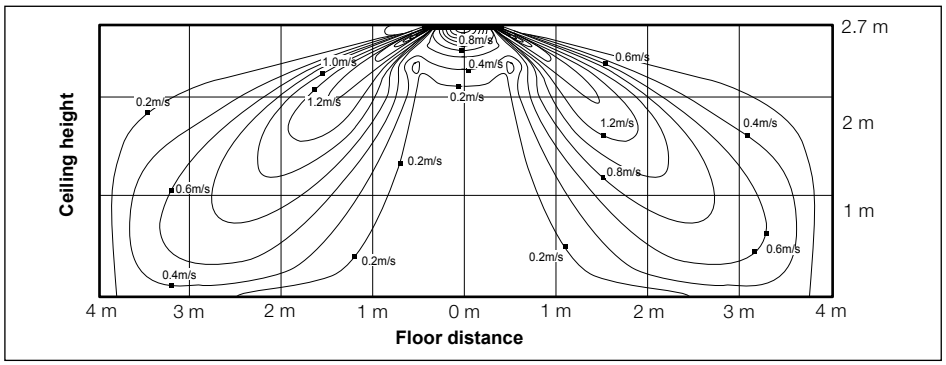
◆ Discharge angle : 52°



2) AC071FB4PEH/EU

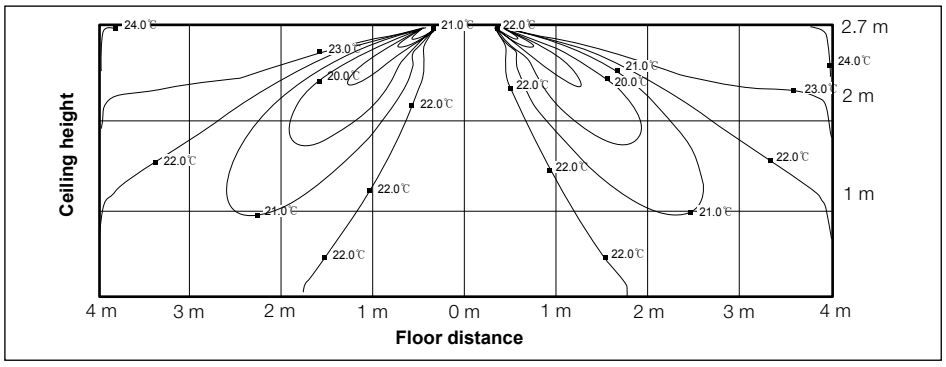
(1) Cooling air velocity distribution

◆ Discharge angle : 45°



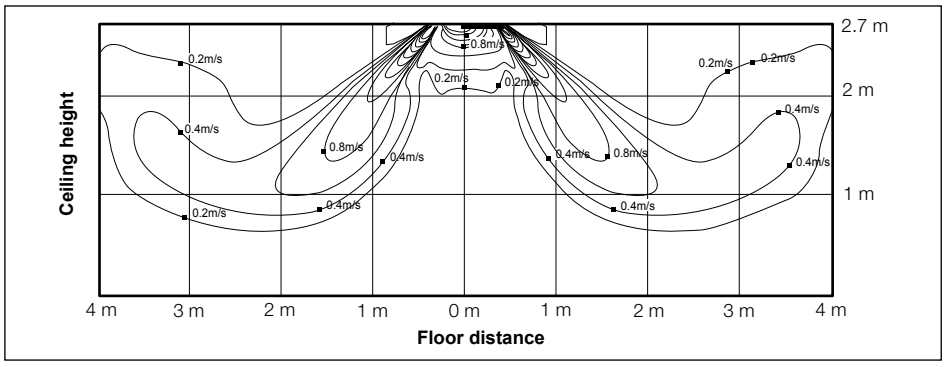
(2) Cooling temperature distribution

◆ Discharge angle : 45°



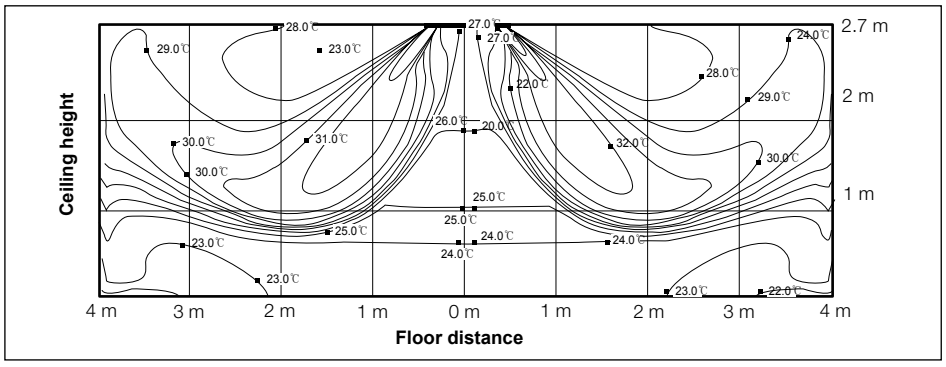
(3) Heating air velocity distribution

◆ Discharge angle : 52°



(4) Heating temperature distribution

◆ Discharge angle : 52°

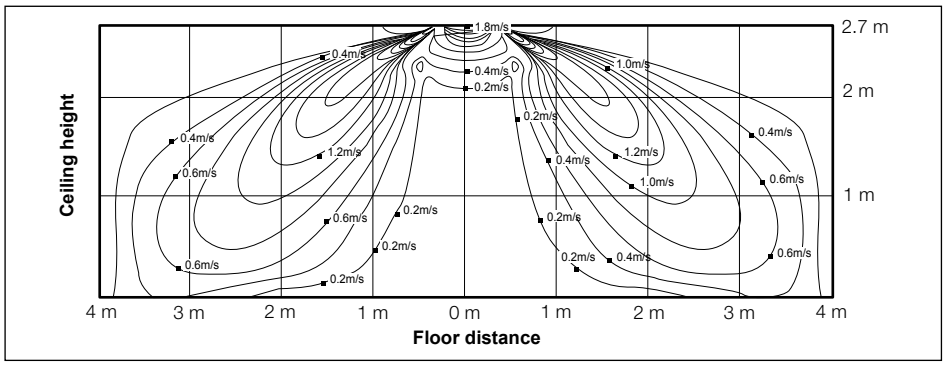


3-7. Temperature and air flow distribution

3) AC090FB4DEH/EU

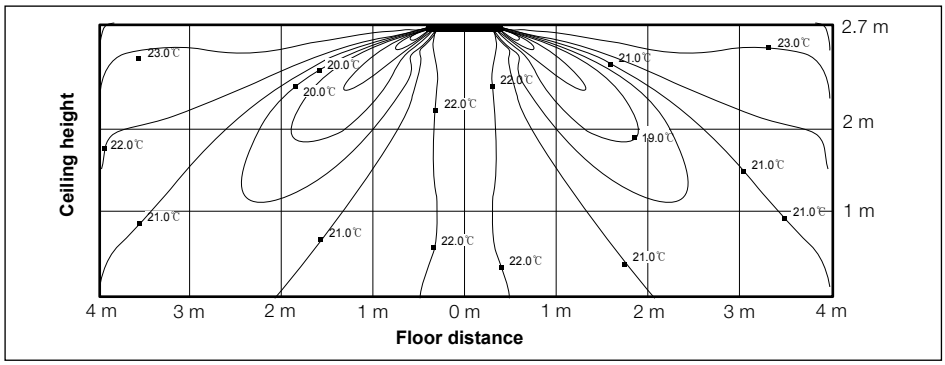
(1) Cooling air velocity distribution

◆ Discharge angle : 45°



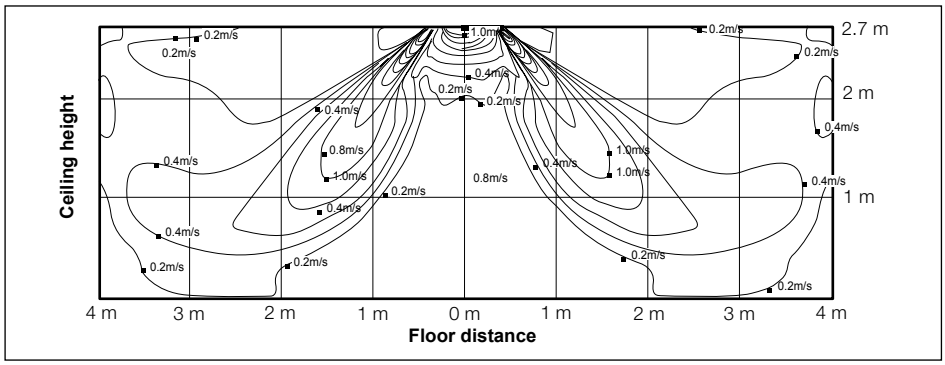
(2) Cooling temperature distribution

◆ Discharge angle : 45°



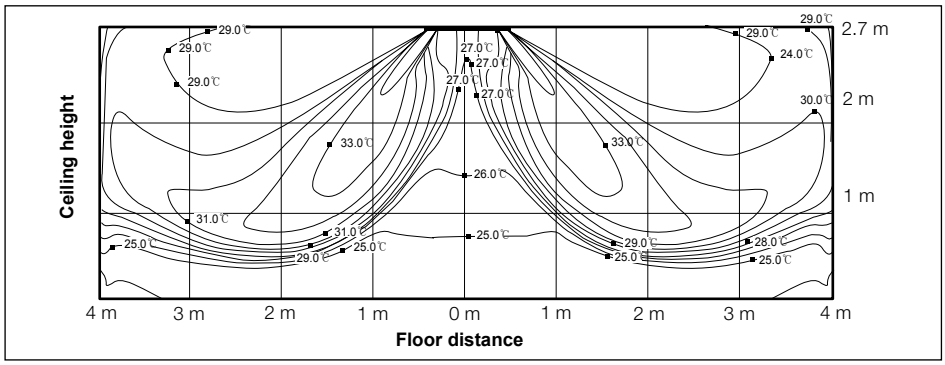
(3) Heating air velocity distribution

◆ Discharge angle : 52°



(4) Heating temperature distribution

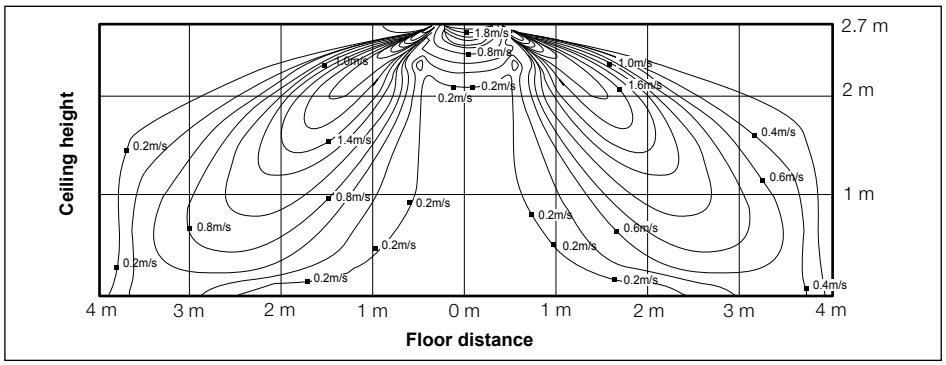
◆ Discharge angle : 52°



4) AC090FB4PEH/EU

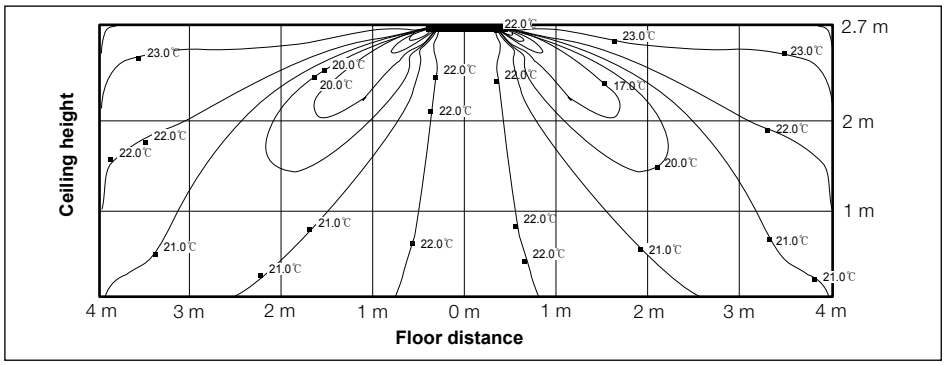
(1) Cooling air velocity distribution

◆ Discharge angle : 45°



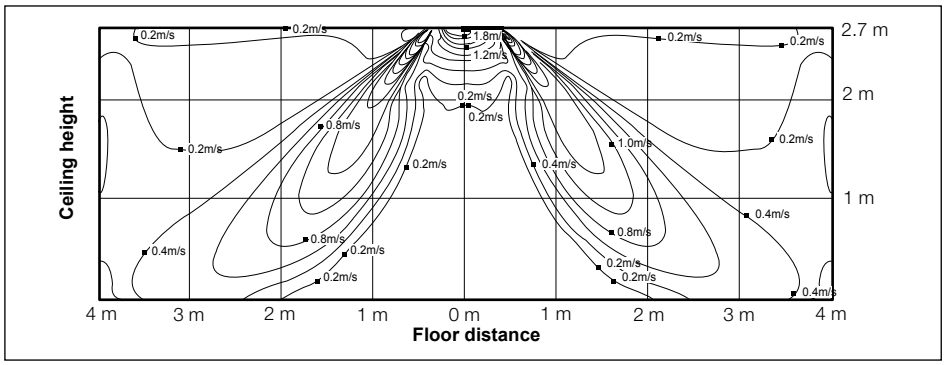
(2) Cooling temperature distribution

◆ Discharge angle : 45°



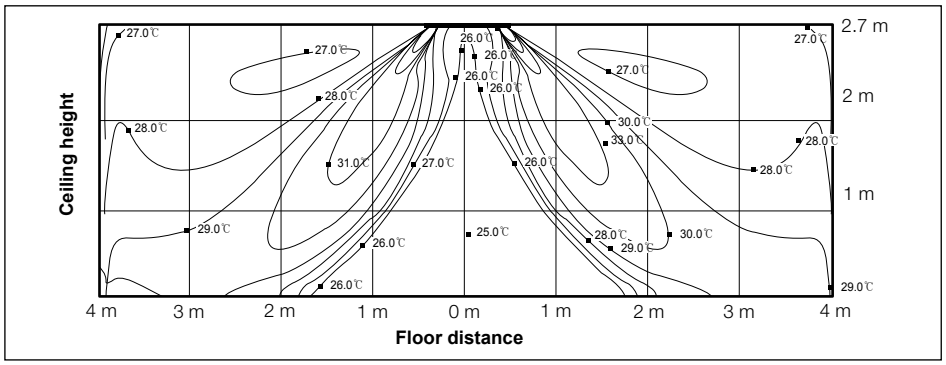
(3) Heating air velocity distribution

◆ Discharge angle : 52°



(4) Heating temperature distribution

◆ Discharge angle : 52°

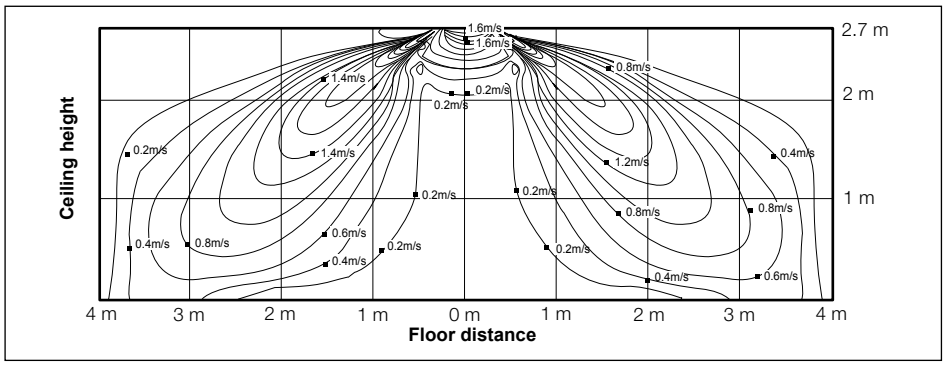


3-7. Temperature and air flow distribution

5) AC100FB4DEH/EU

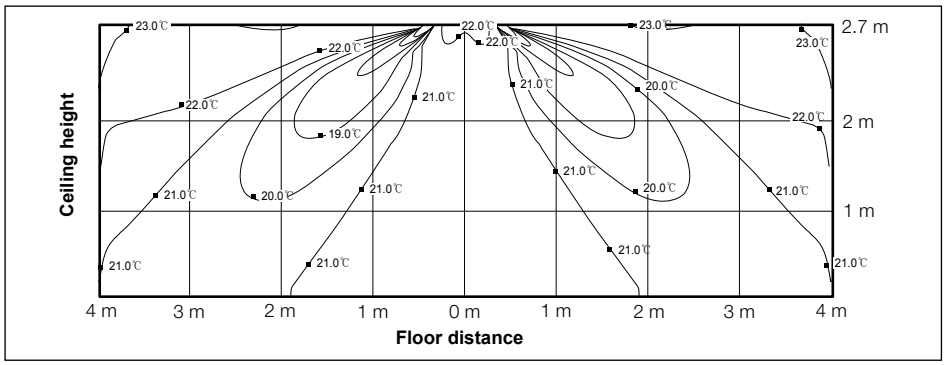
(1) Cooling air velocity distribution

◆ Discharge angle : 45°



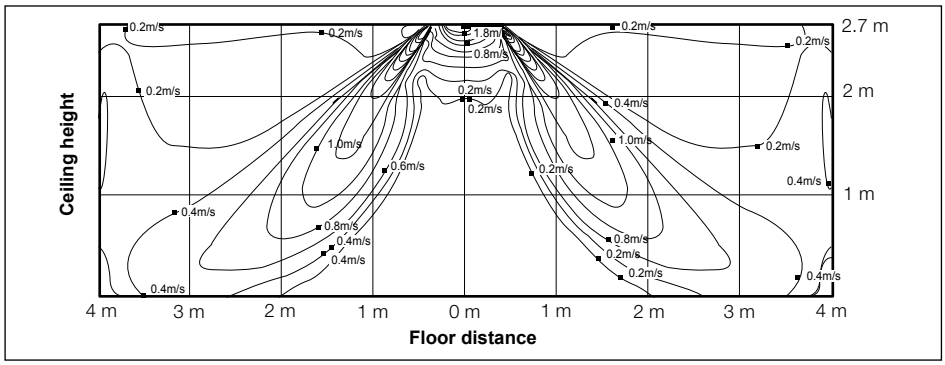
(2) Cooling temperature distribution

◆ Discharge angle : 45°



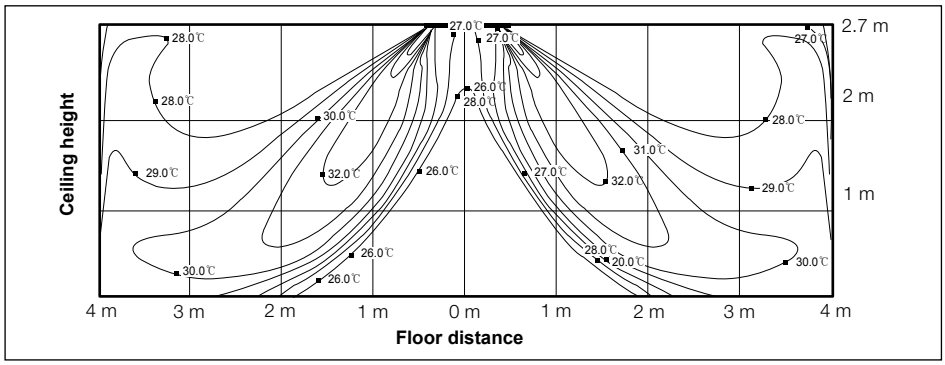
(3) Heating air velocity distribution

◆ Discharge angle : 52°



(4) Heating temperature distribution

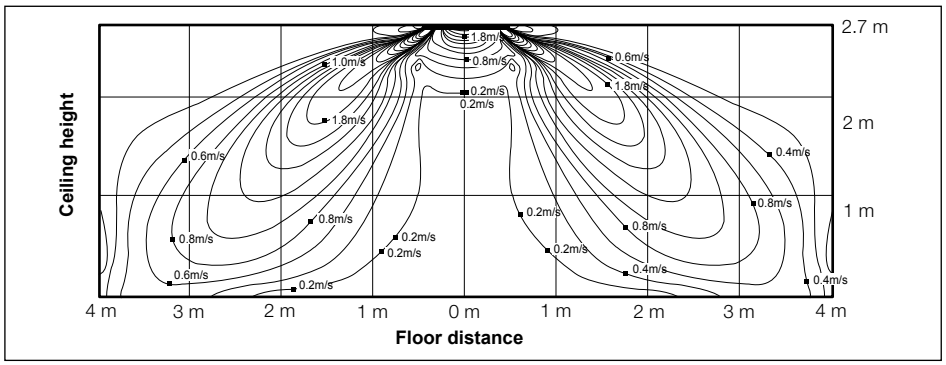
◆ Discharge angle : 52°



6) AC100FB4PEH/EU

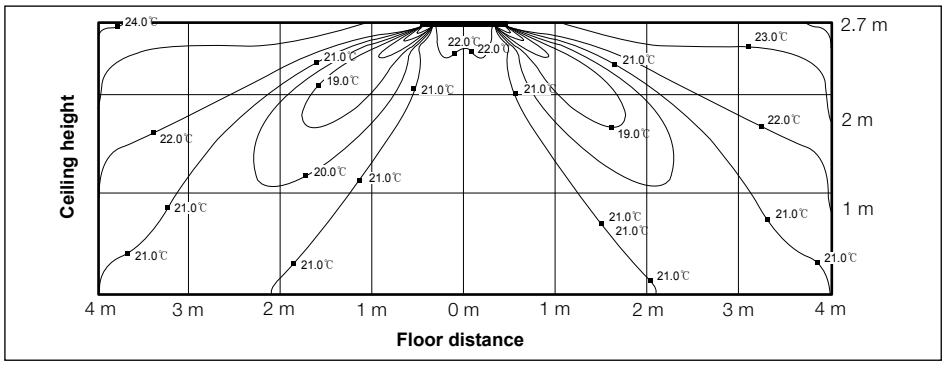
(1) Cooling air velocity distribution

◆ Discharge angle : 45°



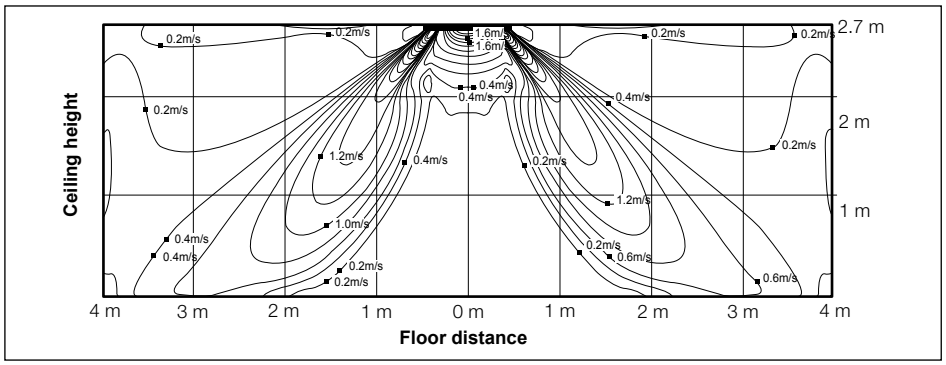
(2) Cooling temperature distribution

◆ Discharge angle : 45°



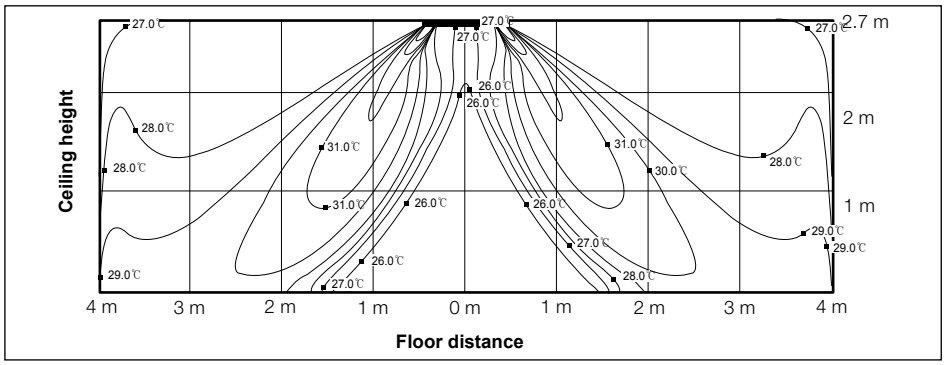
(3) Heating air velocity distribution

◆ Discharge angle : 52°



(4) Heating temperature distribution

◆ Discharge angle : 52°

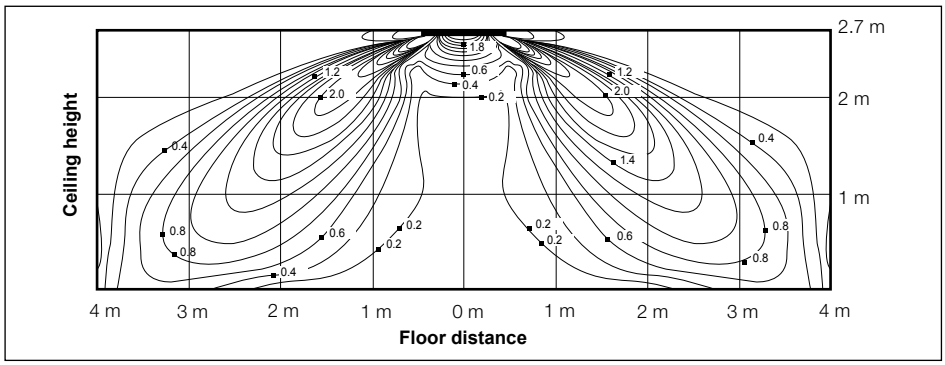


3-7. Temperature and air flow distribution

7) AC100FB4FEH/EU

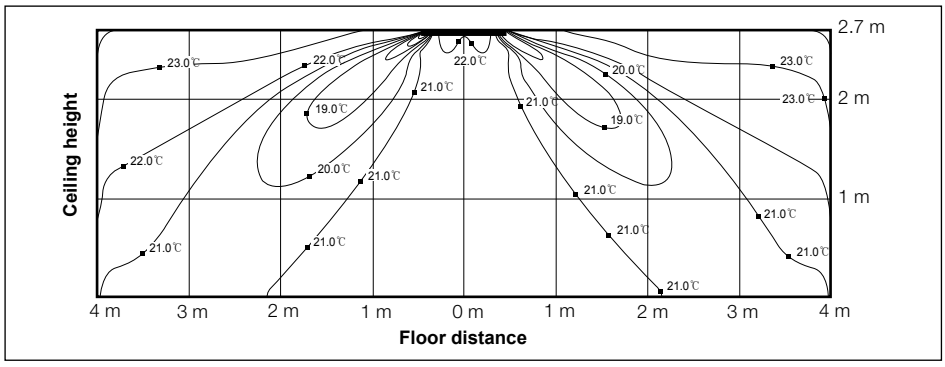
(1) Cooling air velocity distribution

◆ Discharge angle : 45°



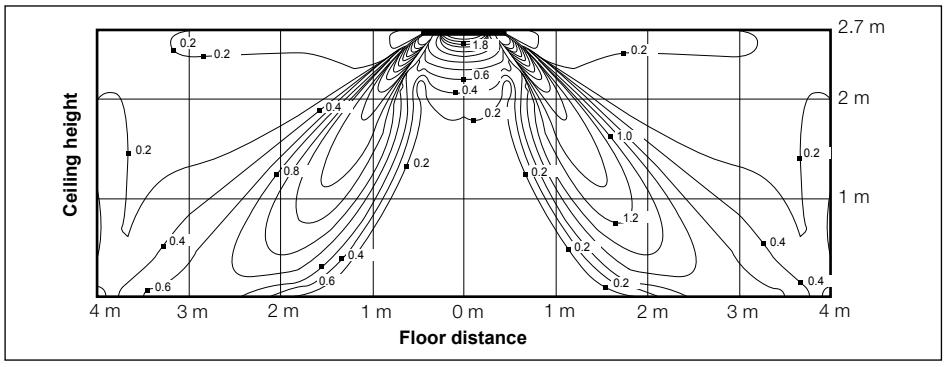
(2) Cooling temperature distribution

◆ Discharge angle : 45°



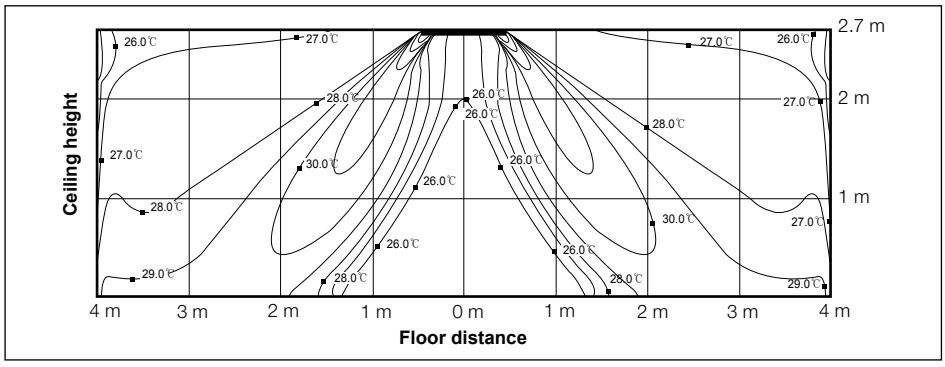
(3) Heating air velocity distribution

◆ Discharge angle : 52°



(4) Heating temperature distribution

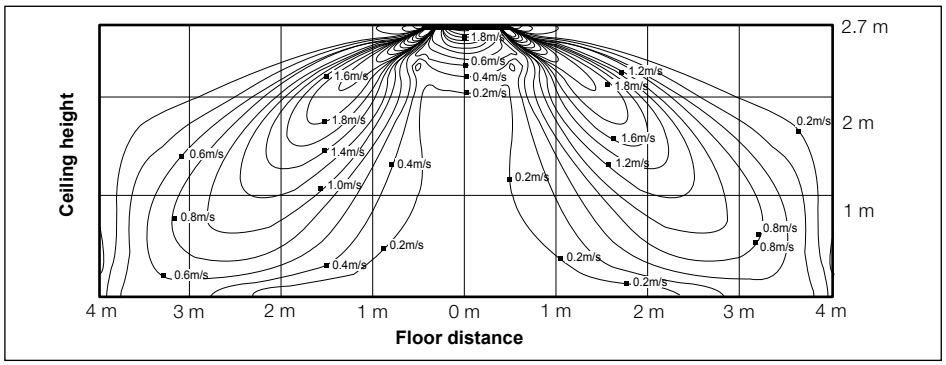
◆ Discharge angle : 52°



8) NS1254DXEA

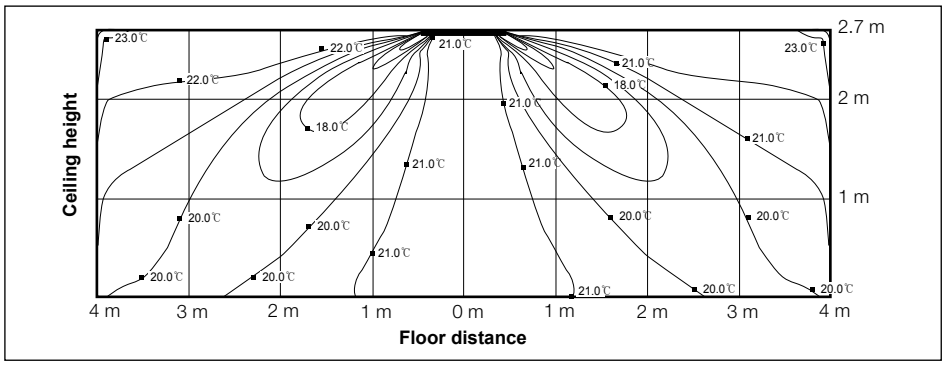
(1) Cooling air velocity distribution

◆ Discharge angle : 45°



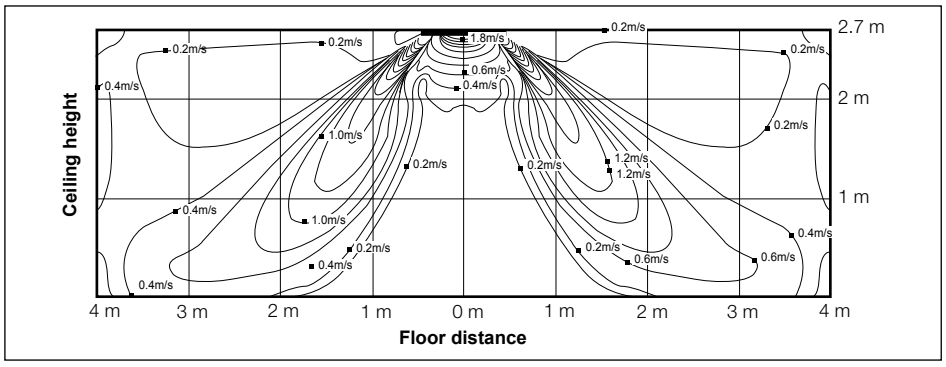
(2) Cooling temperature distribution

◆ Discharge angle : 45°



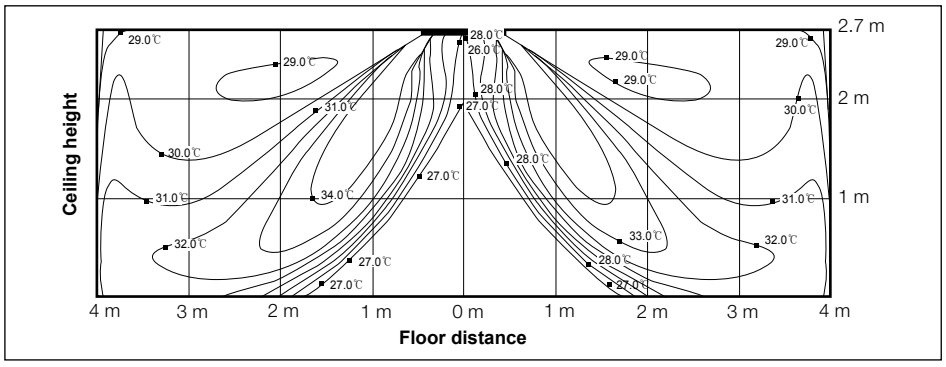
(3) Heating air velocity distribution

◆ Discharge angle : 52°



(4) Heating temperature distribution

◆ Discharge angle : 52°

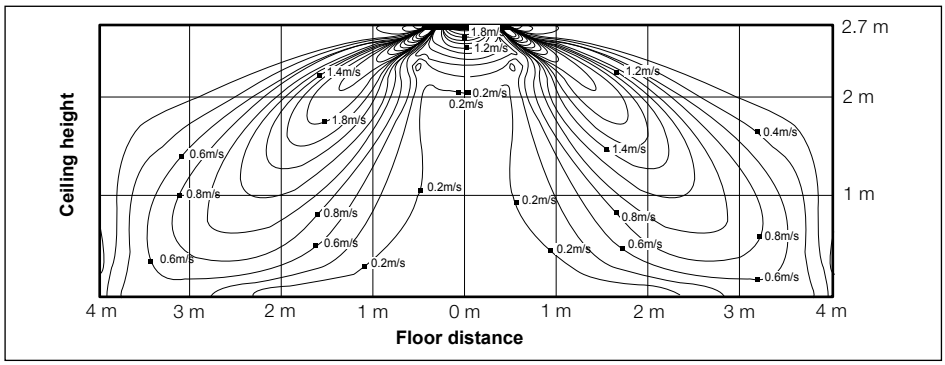


3-7. Temperature and air flow distribution

9) NS1254PXEA

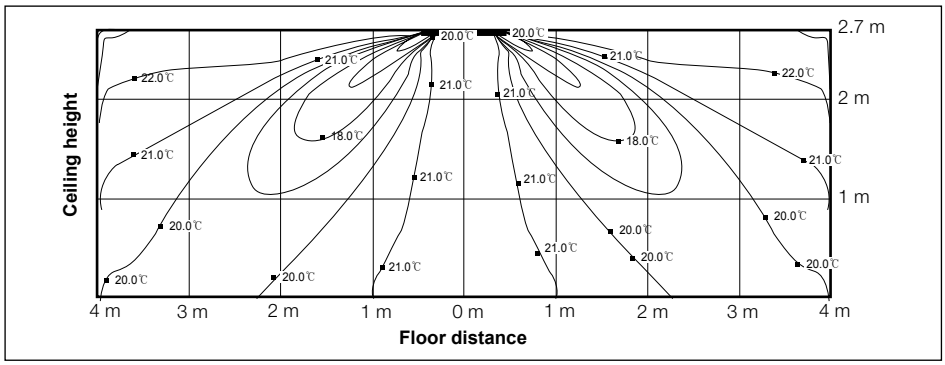
(1) Cooling air velocity distribution

◆ Discharge angle : 45°



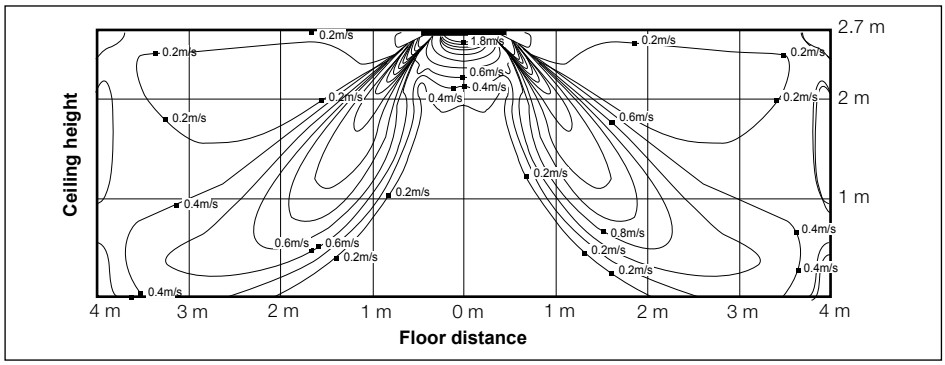
(2) Cooling temperature distribution

◆ Discharge angle : 45°



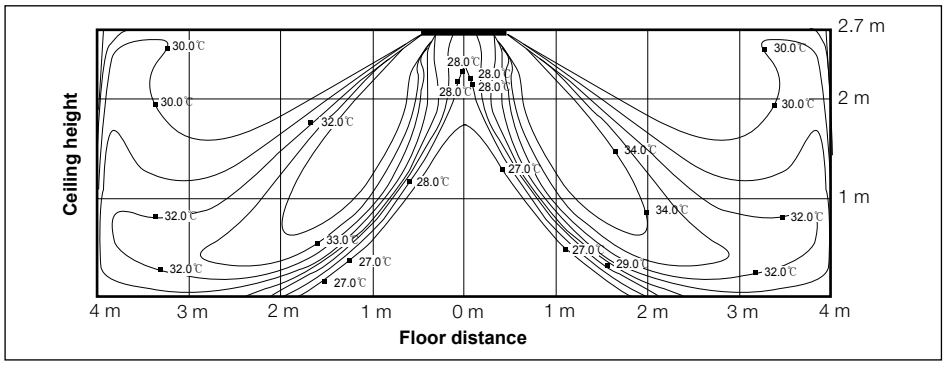
(3) Heating air velocity distribution

◆ Discharge angle : 52°



(4) Heating temperature distribution

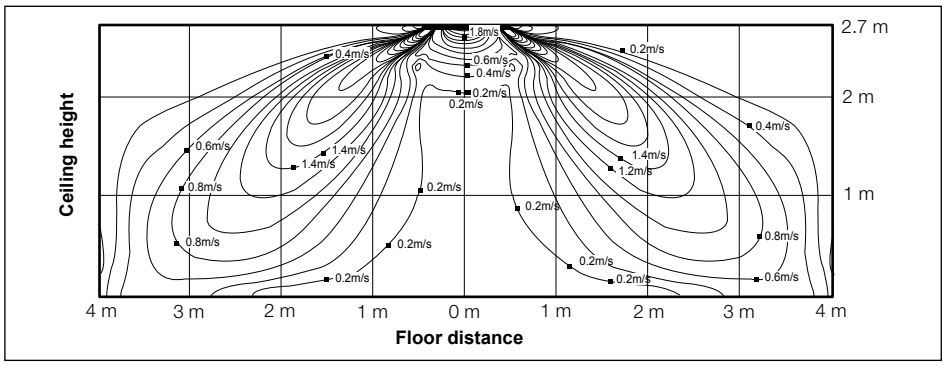
◆ Discharge angle : 52°



10) NS1404DXEA

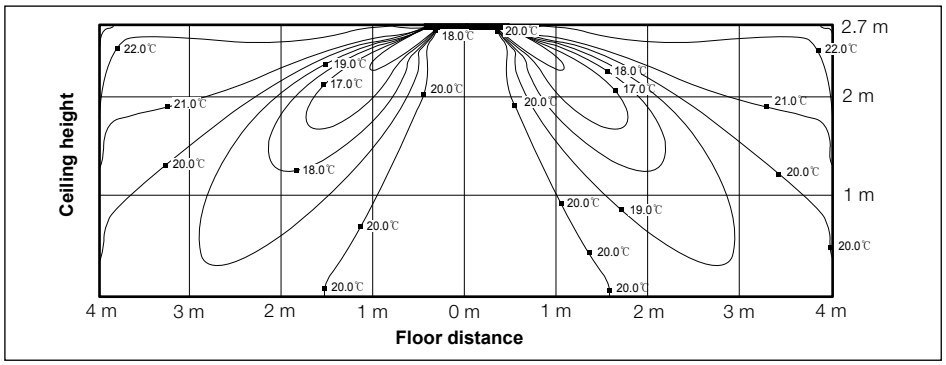
(1) Cooling air velocity distribution

◆ Discharge angle : 45°



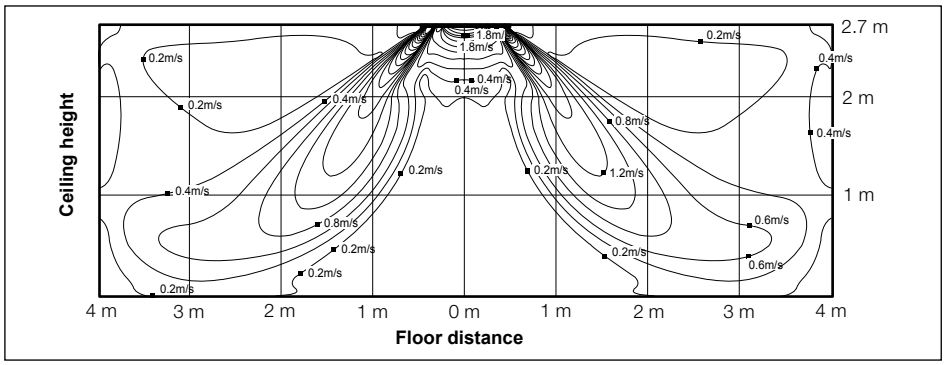
(2) Cooling temperature distribution

◆ Discharge angle : 45°



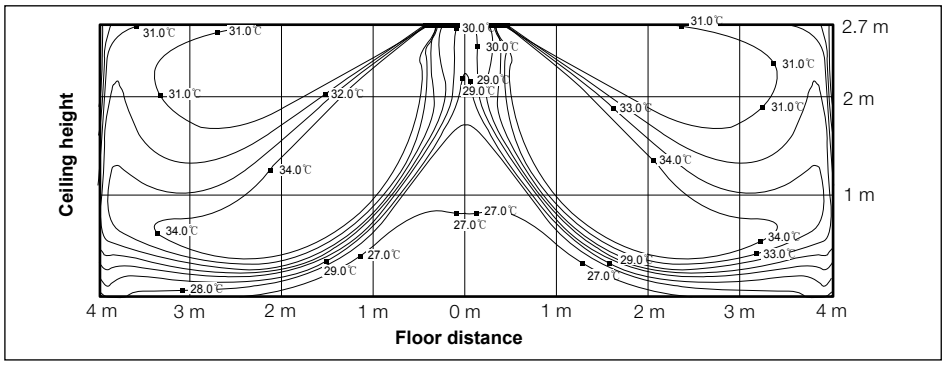
(3) Heating air velocity distribution

◆ Discharge angle : 52°



(4) Heating temperature distribution

◆ Discharge angle : 52°

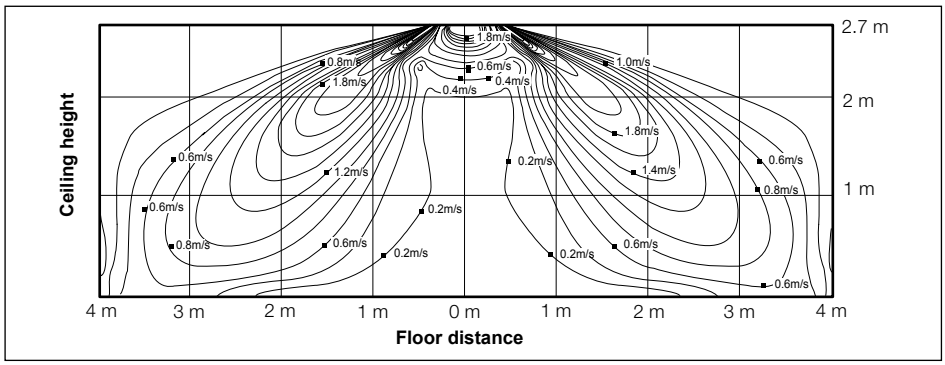


3-7. Temperature and air flow distribution

11) NS1404PXEA

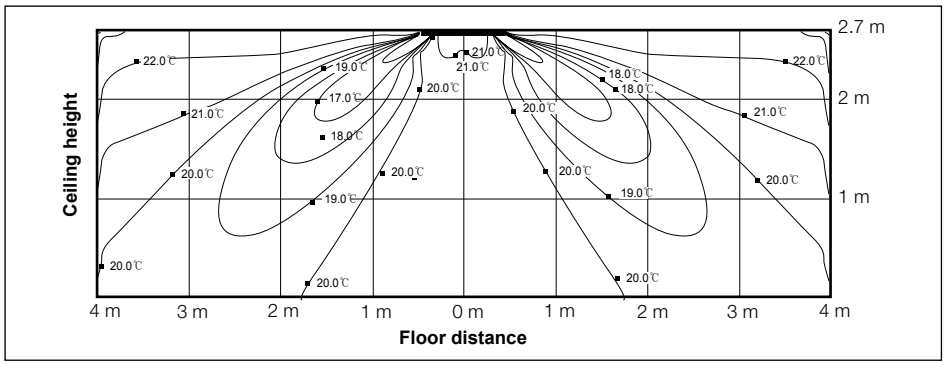
(1) Cooling air velocity distribution

◆ Discharge angle : 45°



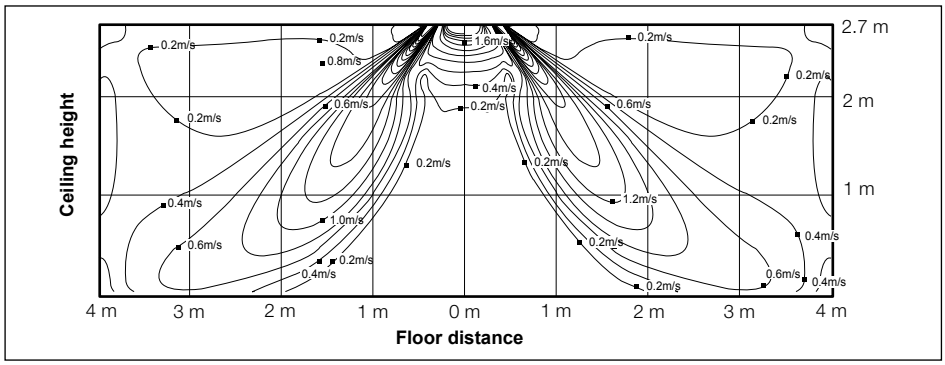
(2) Cooling temperature distribution

◆ Discharge angle : 45°



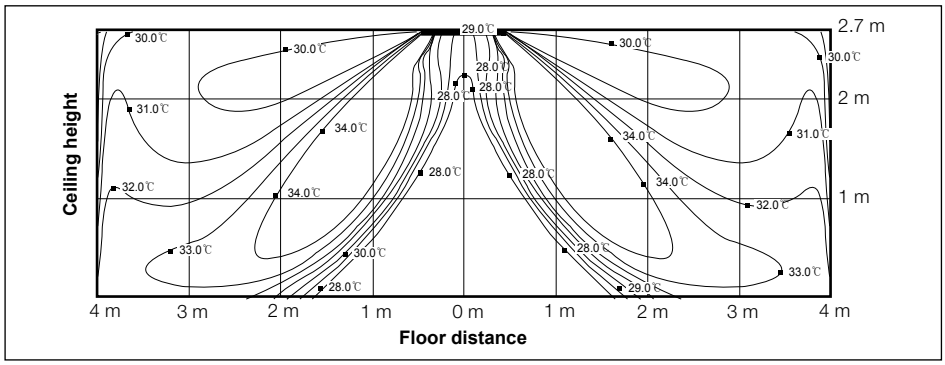
(3) Heating air velocity distribution

◆ Discharge angle : 52°



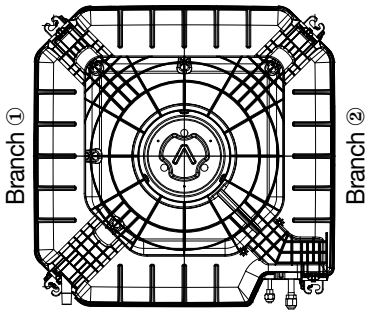
(4) Heating temperature distribution

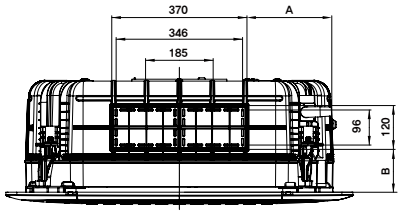
◆ Discharge angle : 52°



3-8. Sub duct

1) Dimensional drawing





Indoor Unit (Height)		204mm	246mm	288mm
A	mm	235 (Branch 1), 260 (Branch 2)		
B	mm	95	118	118

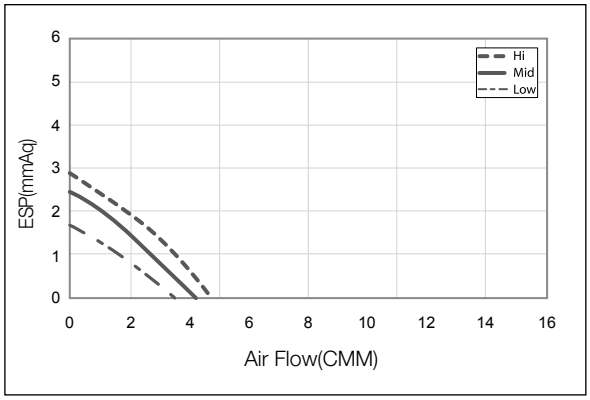
☑ *Note*

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

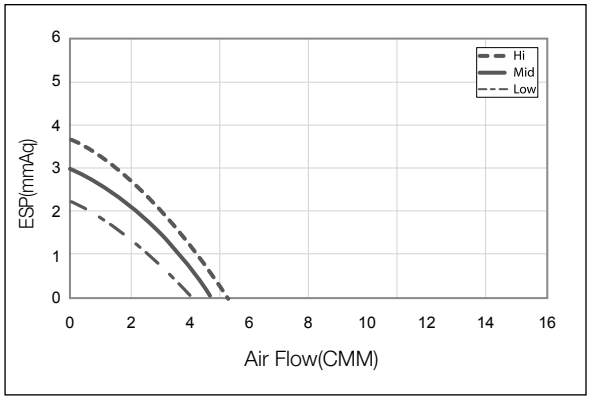
2) P-Q Curve

(1) AC052FB4DEH/EU, AC071FB4DEH/EU

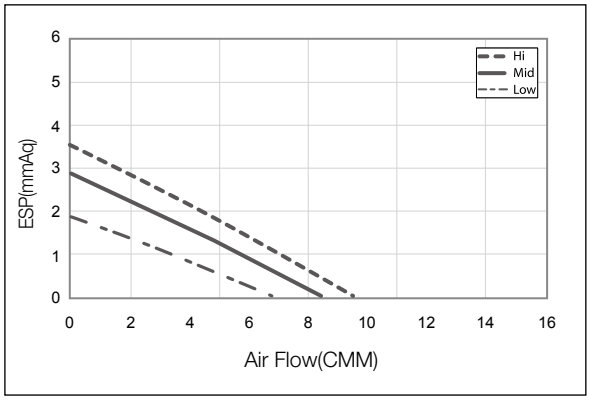
Branch ①



Branch ②



Branch ① + ②

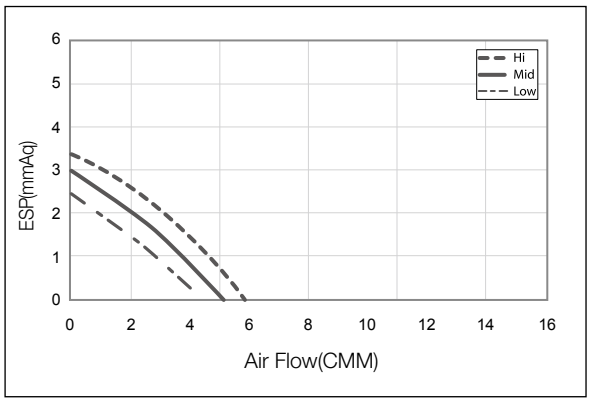


3-8. Sub duct

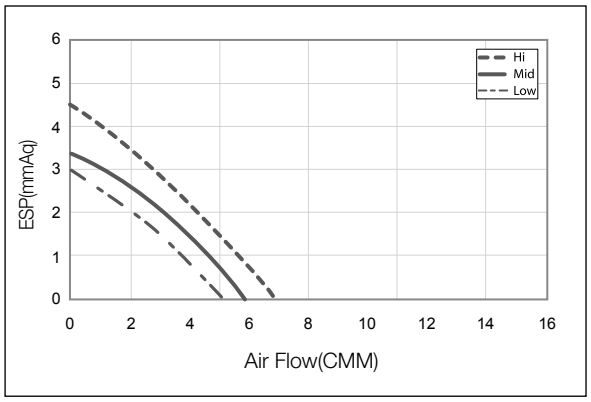
2) P-Q Curve

(2) AC071FB4PEH/EU

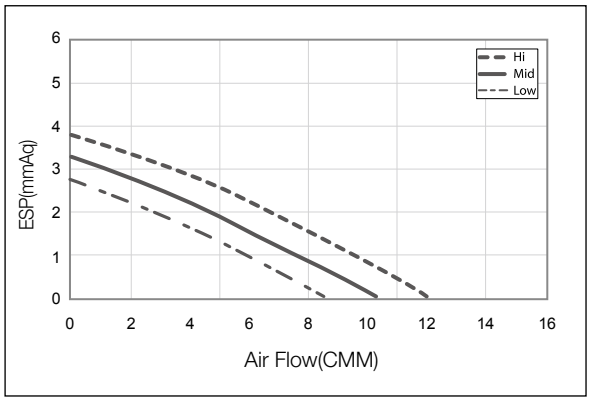
Branch ①



Branch ②

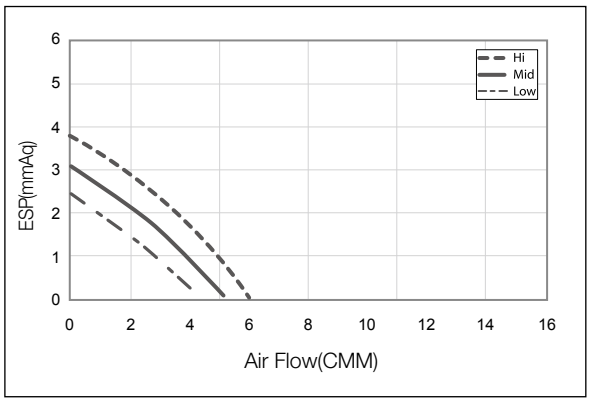


Branch ① + ②

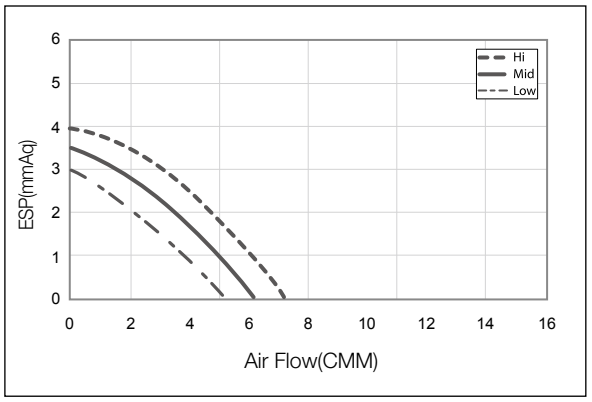


(3) AC090FB4DEH/EU

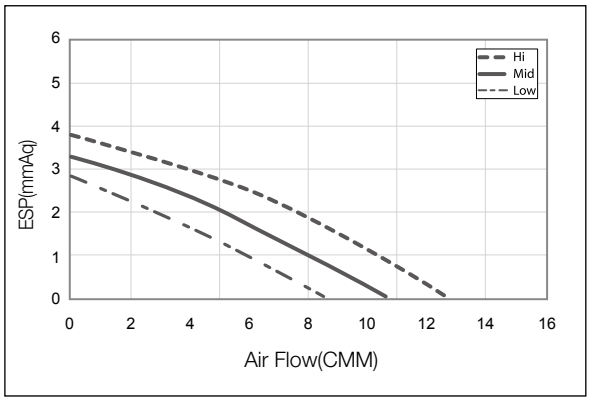
Branch ①



Branch ②

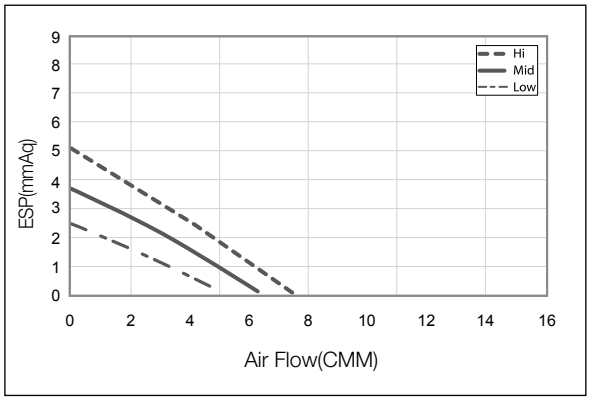


Branch ① + ②

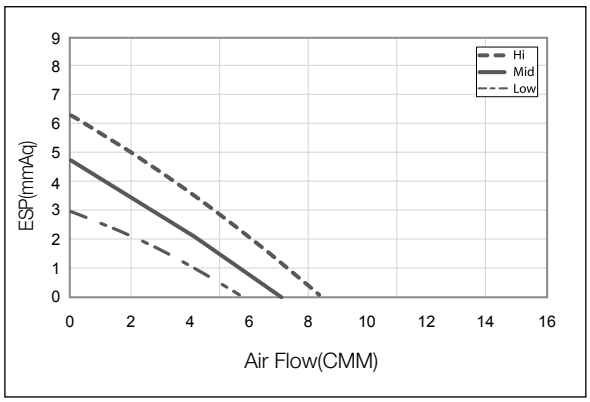


(4) AC090FB4PEH/EU

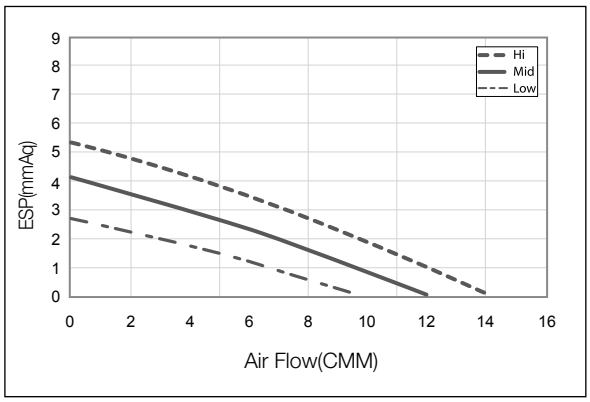
Branch ①



Branch ②

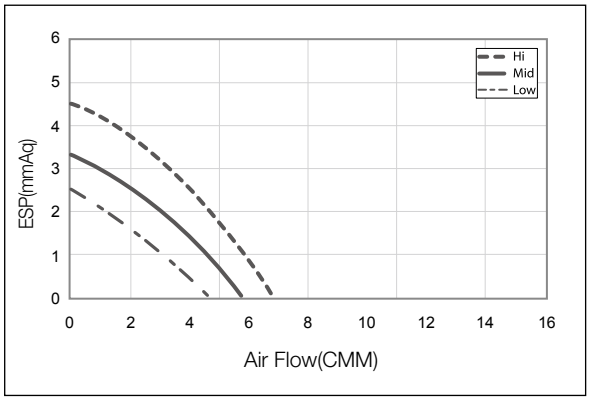


Branch ① + ②

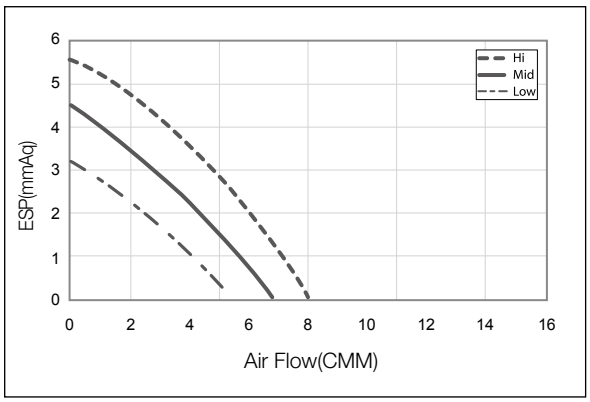


(5) AC100FB4DEH/EU

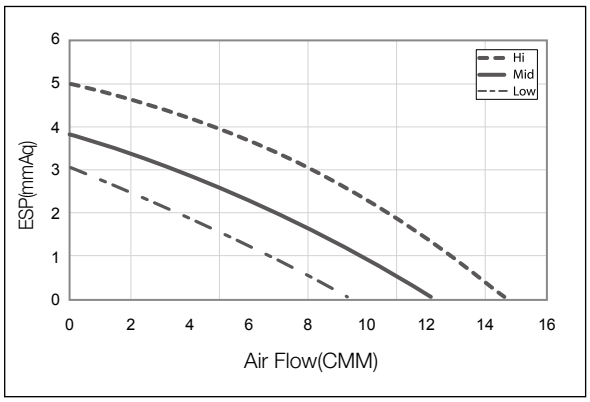
Branch ①



Branch ②



Branch ① + ②

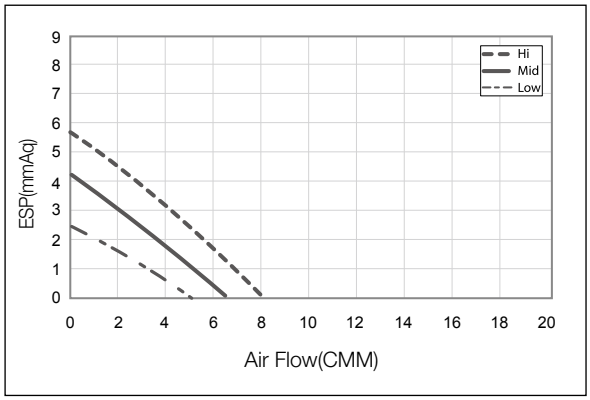


3-8. Sub duct

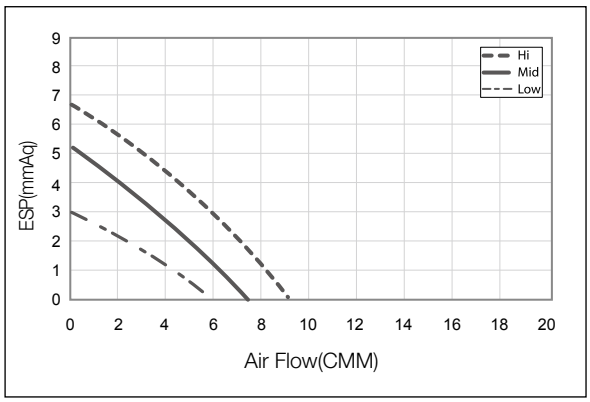
2) P-Q Curve

(6) AC100FB4PEH/EU

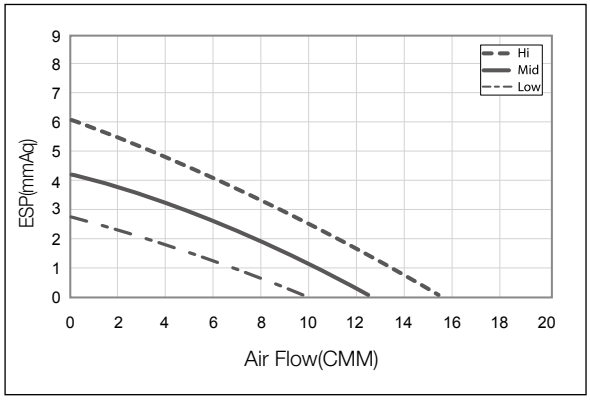
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Branch ②

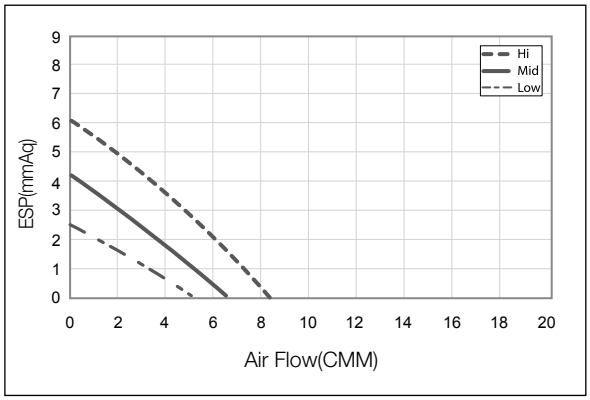


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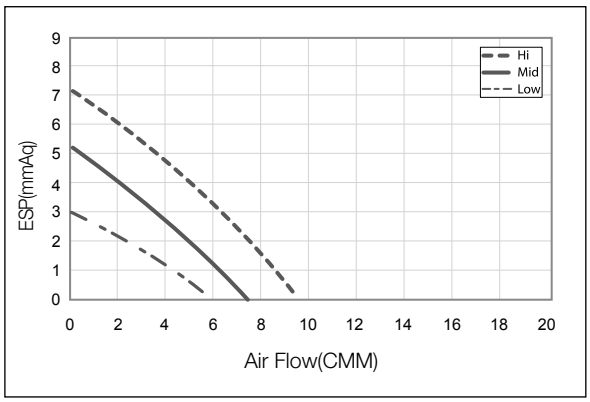


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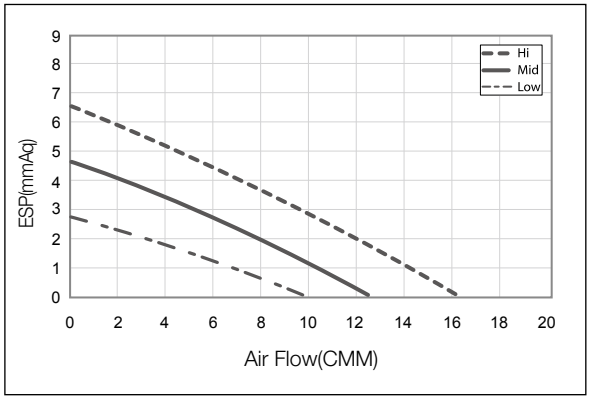
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Branch ②

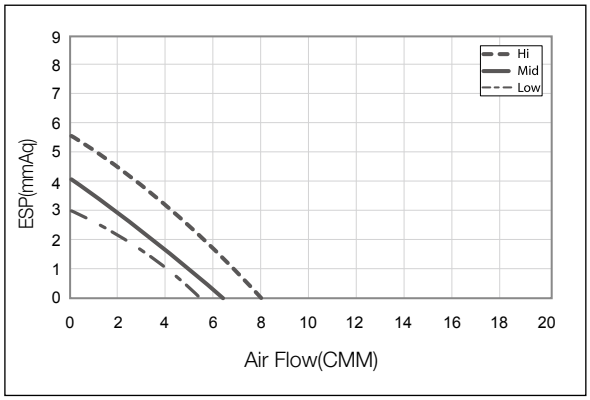


Branch ① + ②

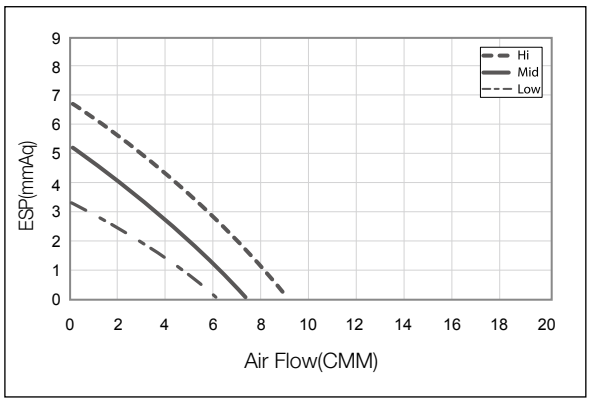


(8) NS1254D(P)XEA

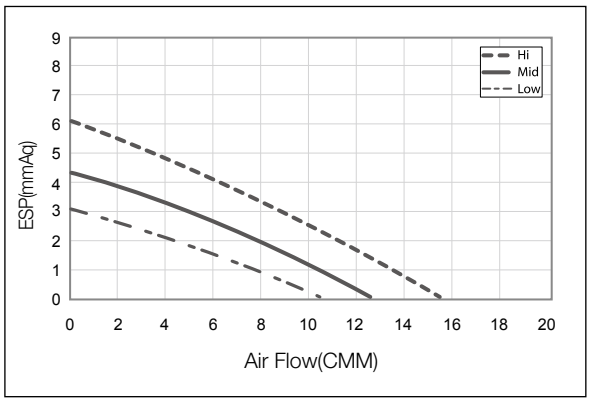
Branch ①



Branch ②

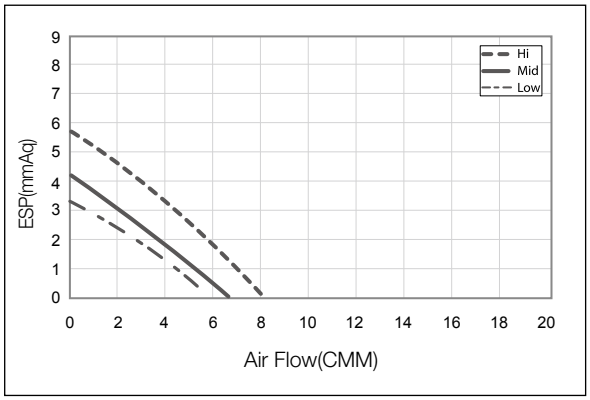


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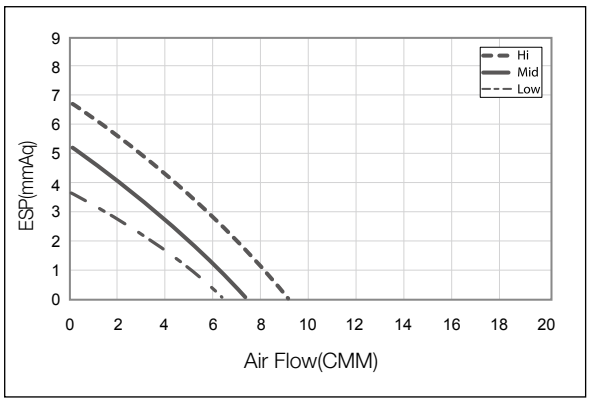


(9) NS1404DXEA

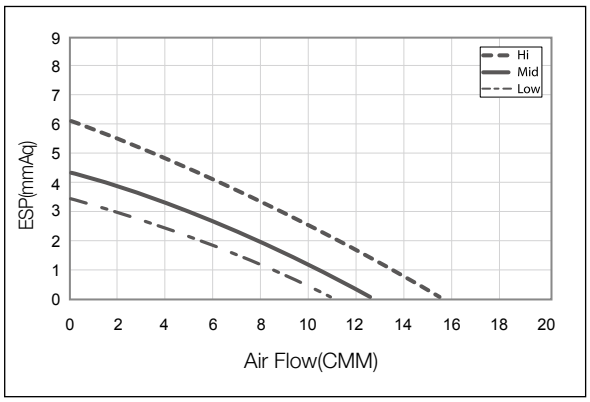
Branch ①



Branch ②



Branch ① + ②

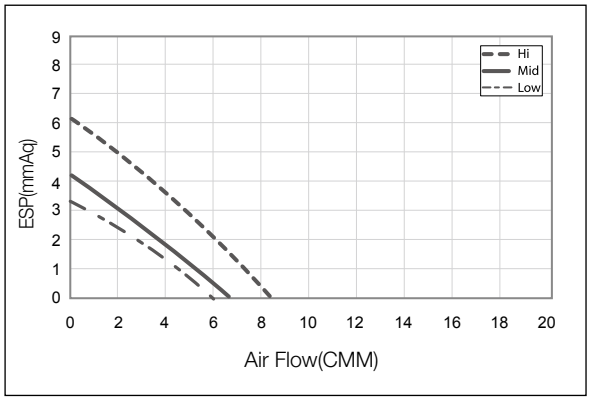


3-8. Sub duct

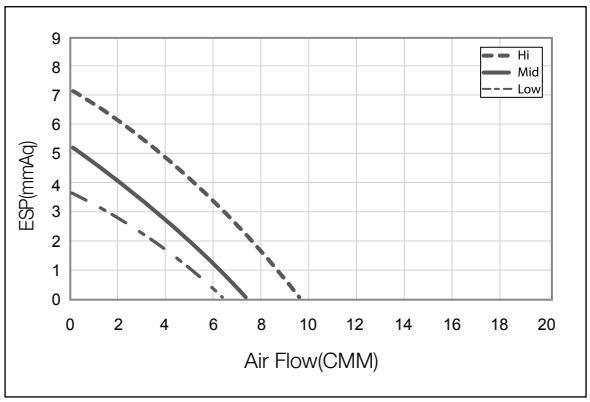
2) P-Q Curve

(10) NS1404PXEA

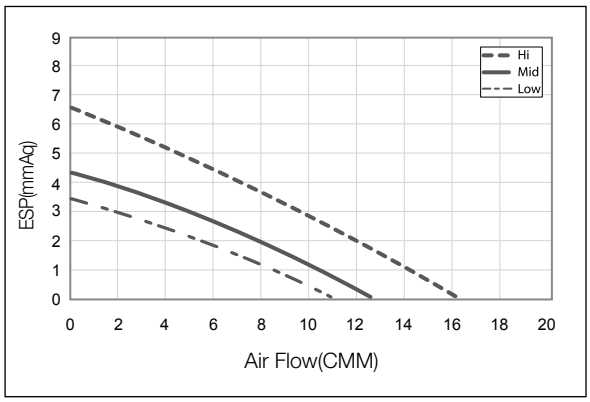
Branch ①



Branch ②



Branch ① + ②





4 Slim duct

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4-1. Specifications

1) Technical specifications

Model Name		Indoor Unit			AC035FBLDEH/EU	AC052FBLDEH/EU	AC071FBLDEH/EU
		Outdoor Unit			AC035FCADEH/EU	AC052FCADEH/EU	AC071FCADEH/EU
System	Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP
	Capacity	Cooling (Min / Std / Max)		kW	0.95/3.50/4.00	1.20/5.00/6.00	2.20/7.10/8.00
				Btu/h	3,200/11,900/13,600	4,100/17,100/20,500	7,500/24,200/27,300
		Heating (Min / Std / Max)		kW	0.72/4.00/4.60	0.70/6.00/7.00	1.90/8.00/9.00
				Btu/h	2,500/13,600/15,700	2,400/20,500/23,900	6,500/27,300/30,700
	Power	Power Input (Nominal)	Cooling (Min / Std / Max)	kW	0.21/1.25/1.45	0.23/1.66/2.20	0.35/2.21/4.00
			Heating (Min / Std / Max)		0.18/1.17/1.40	0.28/1.66/2.20	0.35/2.32/4.00
		Current Input (Nominal)	Cooling (Min / Std / Max)	A	1.60/6.00/6.60	1.30/8.00/9.80	2.00/10.50/21.00
			Heating (Min / Std / Max)		1.20/5.70/6.60	1.60/7.90/10.00	2.00/10.50/21.00
		MCA		A	10.30 (MCA)	10.80 (MCA)	20.30 (MCA)
		MFA		A	12.50	13.1	25.00
	Energy Efficiency	EER (Nominal Cooling)		-	2.81	3.01	3.21
		COP (Nominal Heating)		-	3.41	3.61	3.45
		SEER (Cooling Energy Grade)		-	SEER 5.30 (A)	SEER 5.1(A)	SEER 5.4(A)
		SCOP (Heating Energy Grade)		-	SOCP 3.40 (A)	SOCP 3.6(A)	SOCP 3.6(A)
		Pdesignh		kW	2.4	3.3	4.8
	Piping Connections	Liquid Pipe		Ø, mm	6.35	6.35	6.35
				Ø, inch	1/4"	1/4"	1/4"
		Gas Pipe		Ø, mm	9.52	12.70	15.88
				Ø, inch	3/8"	1/2"	5/8"
		Installation Limitation	Max. Length (Outdoor to indoor)	m	20(25)	30.0(35.0)	50(55)
			Max. Height (Between ID/OD)	m	15(15)	20.0(20.0)	30(30)
	Field Wiring	Power Source Wire		-	1.5	2.0	2.5
		Transmission Cable		-	0.75 ~ 1.25	0.75 ~ 1.25	0.75 ~ 1.25
	Refrigerant	Type		-	R410A	R410A	R410A
		Control Method		-	-	-	-
		Factory Charging		kg	0.95	1.40	1.30
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/BLDC	Turbo Fan/BLDC
		Motor	Output	W	-	-	-
		Number of Unit		EA	1.00	1.00	1.00
		Air Flow Rate	High / Mid / Low	CMM	10.00/9.00/8.00	13.50/12.5/11.00	19.00/17.00/15.00
				l/s	166.67/150.00/133.33	225.00 / 208.33 / 183.33	316.67/283.33/250.00
		External Static Pressure	Min / Std / Max	mmAq	0.00/2.50/4.00	0.00/2.00/4.00	0.00/2.50/4.00
				Pa	0.00/24.52/39.23	0.00/19.61/39.23	0.00/24.52/39.23
	Drain	Drain Pipe		Ø,mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
	Sound	Sound Pressure	High / Mid / Low	dB(A)	32.00/29.5/27.0	33.00/31.5/30.0	36.00/34.0/32.0
		Sound Power		dB(A)	54	56	60
	External Dimension	Net Weight		kg	26.00	31.00	34.00
		Shipping Weight		kg	31.00	39.00	40.00
		Net Dimensions (WxHxD)		mm	900 x 199 x 600	1100 x 199 x 600	1100 x 199 x 600
		Shipping Dimensions (WxHxD)		mm	1150 x 280 x 710	1350 x 280 x 710	1350 x 280 x 710
	Panel Size	Panel model		-	-	-	-
		Panel Net Weight		kg	-	-	-
		Shipping Weight		kg	-	-	-
		Net Dimensions (W×H×D)		mm	-	-	-
		Shipping Dimensions (W×H×D)		mm	-	-	-
	Additional Accessories	Drain pump	Drain pump	-	MDP-E075SEE3	MDP-E075SEE3	MDP-E075SEE3
			Max. Lifting Height / Displacement	mm/liter/h	-	-	-
		Air Filter		-	-	-	-
Outdoor Unit	Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50
	Compressor	Type		-	Single BLDC Rotary	Single BLDC Rotary	Twin BLDC Rotary
		Model		-	G4C090LUDER	UG4T150FUDJQ	UG4T200FUAE4SG
		Output		kW	0.86	1.85	1.79
		Oil	Type	-	POE	POE	POE
			Initial Charge	cc	320.00	650	650.00
	Fan	Air Flow Rate	Cooling	CMM	30.00	33	52.00
				l/s	500.00	550.00	866.67
	Sound	Sound Pressure	Cooling / Heating	dB(A)	47.0 / 47.0	49.0 / 49.0	49.0 / 51.0
		Sound Power		dB(A)	62	64	66
	External Dimension	Net Weight		kg	33.00	38.50	55.00
		Shipping Weight		kg	37.00	42.50	59.00
		Net Dimensions (WxHxD)		mm	790 x 548 x 285	790 x 548 x 285	880 x 798 x 310
		Shipping Dimensions (WxHxD)		mm	926 x 655 x 382	926 x 655 x 382	1023 x 891 x 413
	Operating Temp. Range	Cooling		°C	-10~46	-10~46	-15~50
		Heating		°C	-15~24	-15~24	-20~24

4-2. Capacity tables

1) AC035FCADEH/EU+AC035FBLDEH/EU

(1) Cooling

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

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)											
		-15			21			35			46		
WB	DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	3.51	2.64	0.98	3.74	2.80	0.95	3.25	2.44	1.16	2.70	2.02	1.21
16	22	3.60	2.70	1.00	3.83	2.87	0.97	3.33	2.50	1.19	2.76	2.07	1.24
18	25	3.69	2.77	1.02	3.92	2.94	1.00	3.42	2.56	1.22	2.83	2.12	1.27
19	27	3.78	2.84	1.05	4.02	3.02	1.02	3.50	2.63	1.25	2.90	2.18	1.30
22	30	3.87	2.90	1.08	4.12	3.09	1.04	3.58	2.69	1.27	2.97	2.23	1.33
24	32	3.96	2.97	1.10	4.22	3.16	1.07	3.67	2.75	1.31	3.04	2.28	1.36

(2) Heating

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

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

2) AC052FCADEH/EU+AC052FBLDEH/EU

(1) Cooling

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

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)											
		-15			21			35			46		
WB	DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	4.61	3.46	1.11	5.53	4.15	1.21	4.65	3.49	1.54	3.30	2.48	1.32
16	22	4.72	3.54	1.13	5.67	4.25	1.24	4.76	3.57	1.58	3.38	2.54	1.35
18	25	4.84	3.63	1.16	5.81	4.36	1.27	4.88	3.66	1.62	3.46	2.60	1.39
19	27	4.96	3.72	1.19	5.95	4.46	1.30	5.00	3.75	1.66	3.55	2.66	1.42
22	30	5.08	3.81	1.22	6.09	4.57	1.33	5.12	3.84	1.70	3.64	2.73	1.45
24	32	5.20	3.90	1.25	6.24	4.68	1.36	5.24	3.93	1.74	3.72	2.79	1.49

(2) Heating

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

Indoor Temperature(°C)	Outdoor Temperature (°C, DB)							
	-15		-10		7		24	
DB	TC	PI	TC	PI	TC	PI	TC	PI
16	4.46	2.02	5.08	2.15	6.12	1.69	7.60	1.79
18	4.41	2.00	5.03	2.13	6.06	1.68	7.52	1.77
20	4.37	1.98	4.98	2.11	6.00	1.66	7.45	1.75
21	4.33	1.96	4.93	2.09	5.94	1.64	7.38	1.73
22	4.28	1.94	4.88	2.07	5.88	1.63	7.30	1.72
24	4.24	1.92	4.83	2.05	5.82	1.61	7.23	1.70

☑ *Note*

◆ Ratings shown are net capacities.

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

4-2. Capacity tables

3) AC071FCADEH/EU+AC071FBLDEH/EU

(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	8.35	6.68	1.26	8.06	6.45	1.31	7.78	6.23	2.05	6.60	5.28	2.38	5.56	4.45	2.38
16	22	8.55	6.84	1.29	8.26	6.61	1.34	7.97	6.38	2.11	6.76	5.41	2.44	5.70	4.56	2.44
18	25	8.76	7.01	1.32	8.46	6.77	1.38	8.17	6.54	2.16	6.93	5.54	2.50	5.84	4.67	2.50
19	27	8.98	7.18	1.35	8.67	6.94	1.41	8.37	6.70	2.21	7.10	5.68	2.56	5.98	4.78	2.56
22	30	9.20	7.36	1.38	8.88	7.10	1.44	8.57	6.86	2.26	7.27	5.82	2.62	6.12	4.90	2.62
24	32	9.42	7.53	1.42	9.09	7.27	1.48	8.78	7.02	2.32	7.44	5.96	2.68	6.27	5.02	2.68

(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	5.52	2.87	6.88	2.69	8.16	2.26	8.70	2.29
18	5.46	2.84	6.81	2.67	8.08	2.24	8.62	2.26
20	5.41	2.81	6.74	2.64	8.00	2.22	8.53	2.24
21	5.36	2.78	6.67	2.61	7.92	2.20	8.44	2.22
22	5.30	2.75	6.61	2.59	7.84	2.18	8.36	2.20
24	5.25	2.73	6.54	2.56	7.76	2.15	8.28	2.17

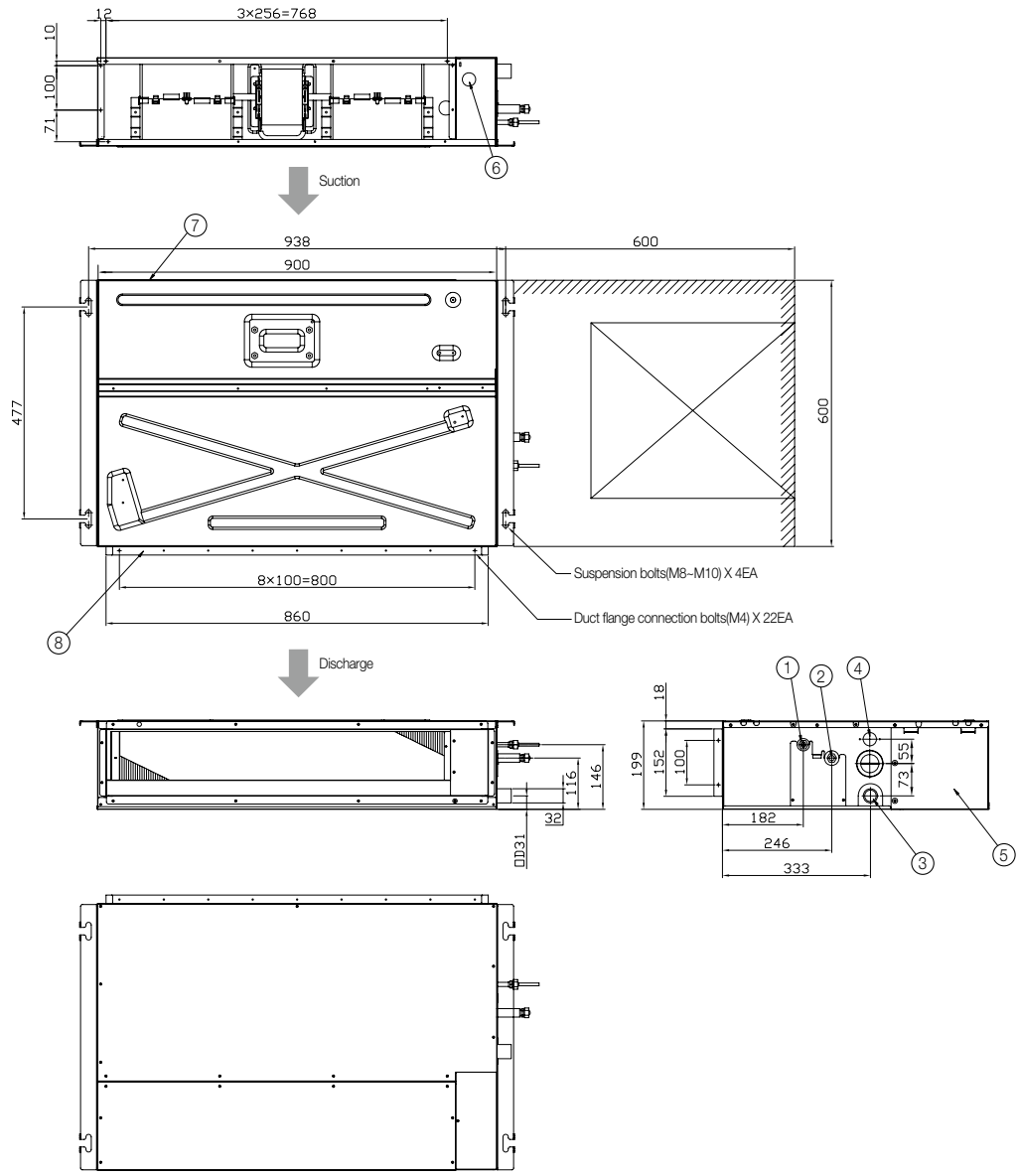
☑ *Note*

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

4-3. Dimensional drawing

1) AC035FBLDEH/EU

Unit:mm

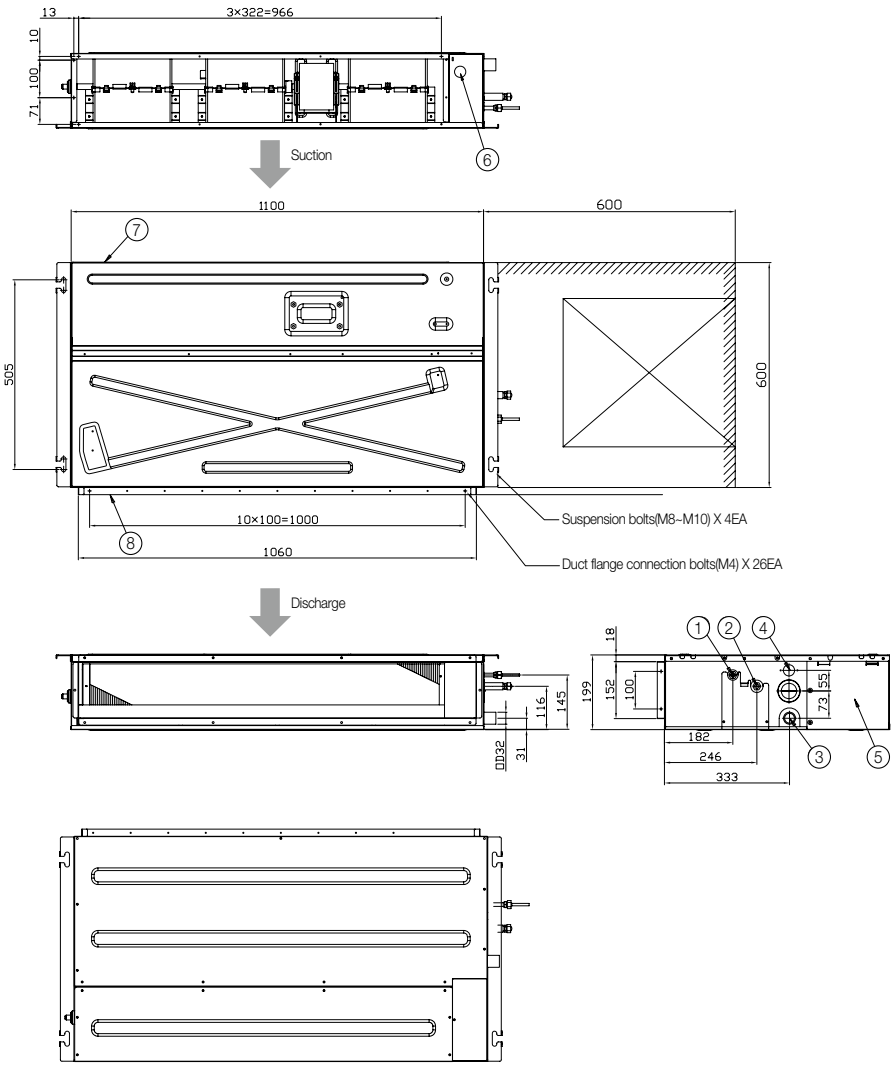


No.	Name	Description
		3.5kW
①	Liquid pipe connection	Ø6.35mm (1/4") Flare
②	Gas pipe connection	Ø9.52mm (3/8") Flare
③	Drain pipe connection without optional drain pump kits	VP25 (OD32, ID25)
④	Drain pipe connection with optional drain pump kits	-
⑤	Control unit	-
⑥	Conduit for power supply & communication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

4-3. Dimensional drawing

2) AC052/071FBLDEH/EU

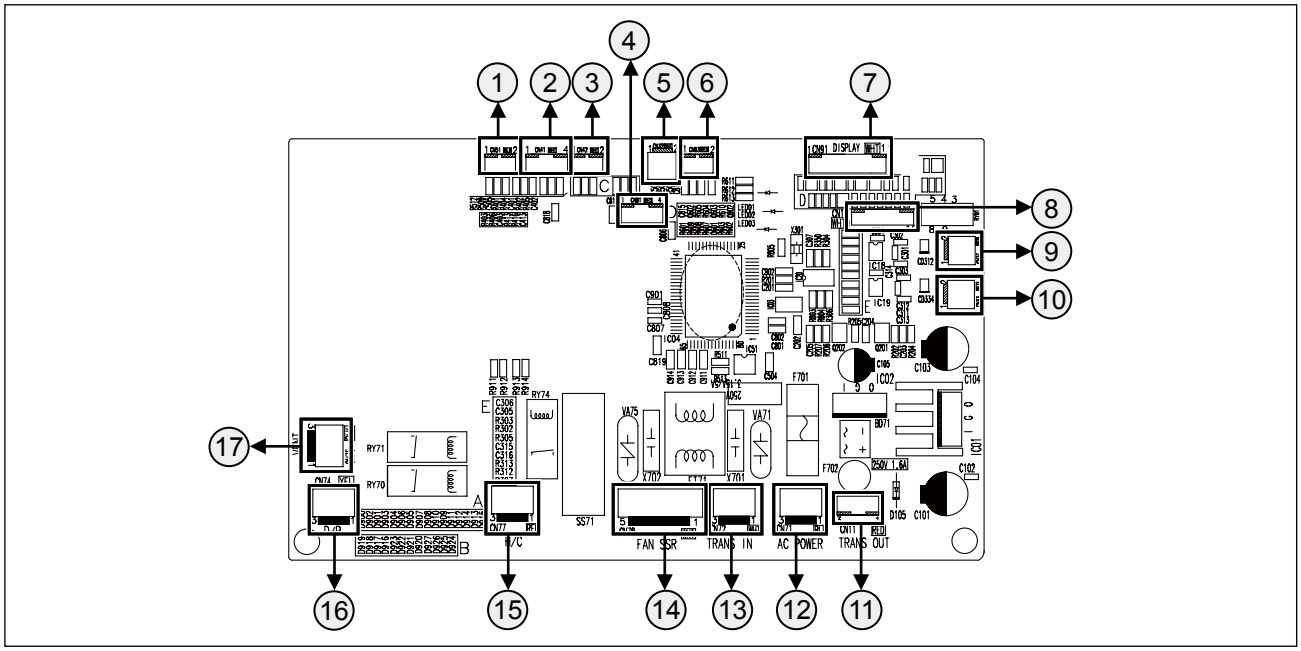
Unit:mm



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

4-4. PCB connector lay-out

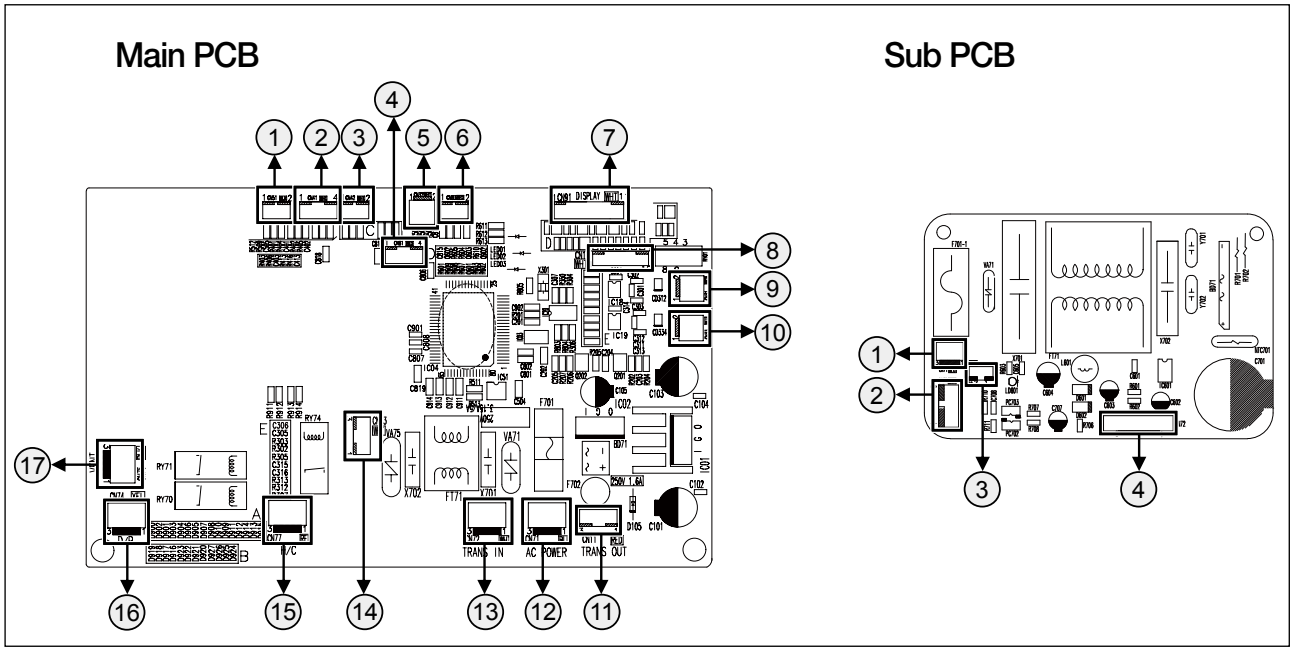
1) AC035FBLDEH/EU



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

4-4. PCB connector lay-out

2) AC052/071FBLDEH/EU



Main PCB

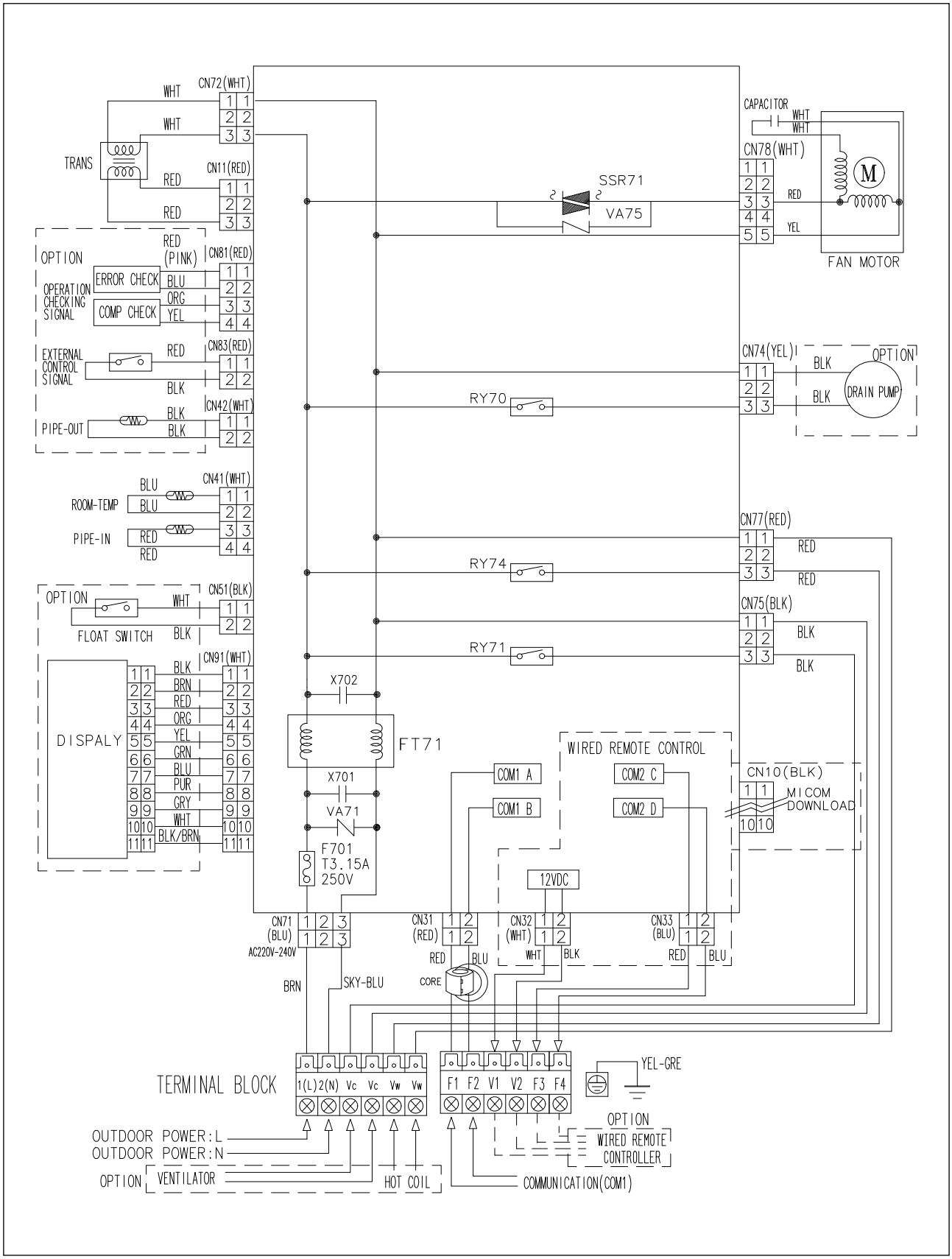
No.	CN #	Color	Function
①	CN51	Black	Float Switch
②	CN41	White	Indoor Room & Eva In Temp. Sensor
③	CN42	White	Eva Out Temp. Sensor
④	CN81	Red	External Control (Error Check, Indoor Unit Operation)
⑤	CN32	White	DC 12V for Wired Remote Controller
⑥	CN83	Red	External Contact Control
⑦	CN91	White	Display
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	CN13	White	FAN RPM SIGNAL(BLDC)
⑮	CN77	Red	Hot Water Coil
⑯	CN74	Yellow	Drain Pump
⑰	CN75	Black	Ventilator

Sub PCB

No.	CN #	Color	Function
①	CN71	Blue	AC POWER
②	CN35	White	FAN RPM SIGNAL(BLDC)
③	CN36	Blue	FAN RPM SIGNAL(BLDC)
④	CN72	White	BLDC MOTOR

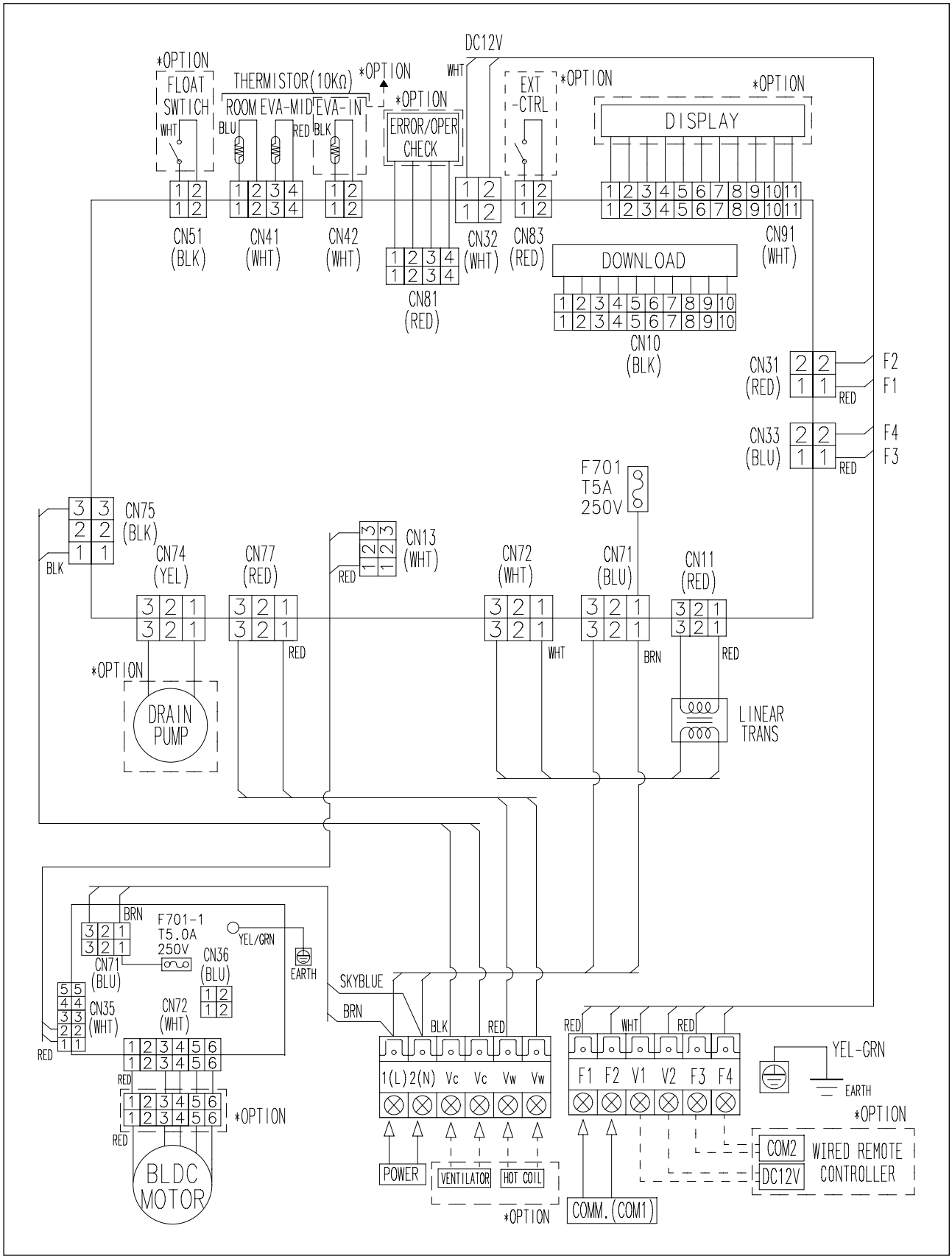
4-5. Electrical wiring diagram

1) AC035FBLDEH/EU



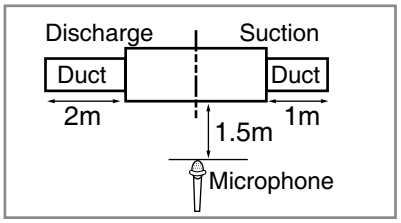
4-5. Electrical wiring diagram

2) AC052/071FBLDEH/EU



4-6. Sound pressure level

1) Operation sound level



Unit : dB(A)

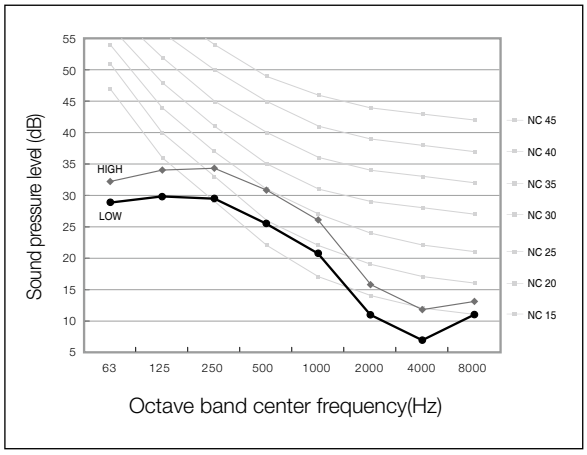
Model	High	Low
AC035FBLDEH/EU	32	27
AC052FBLDEH/EU	33	30
AC071FBLDEH/EU	36	32

Note

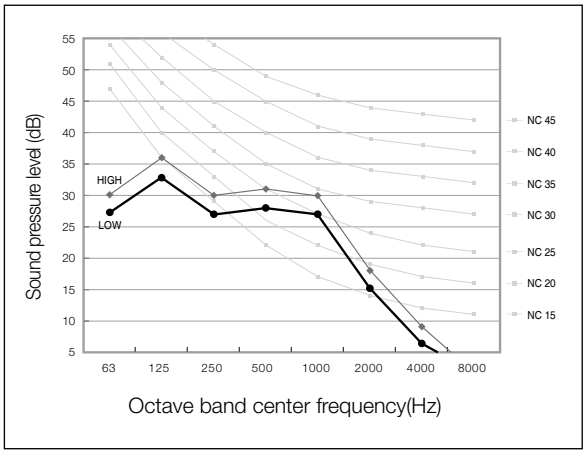
- These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- Operation sound level may differ depending on operation and ambient conditions.

2) NC curves

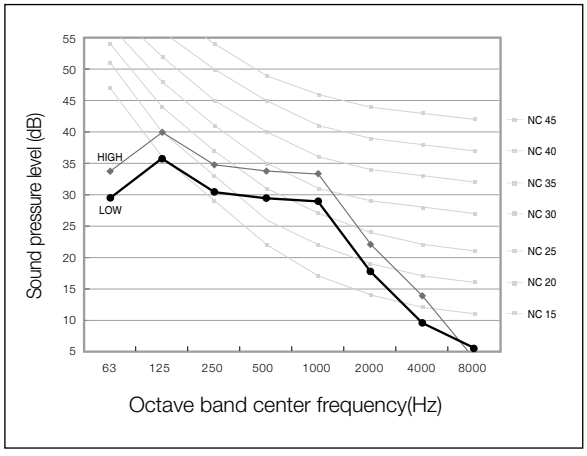
(1) AC035FBLDEH/EU



(2) AC052FBLDEH/EU



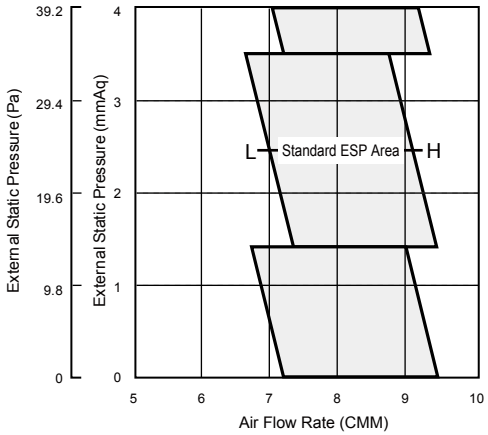
(3) AC071FBLDEH/EU



4-7. Recommended operation range

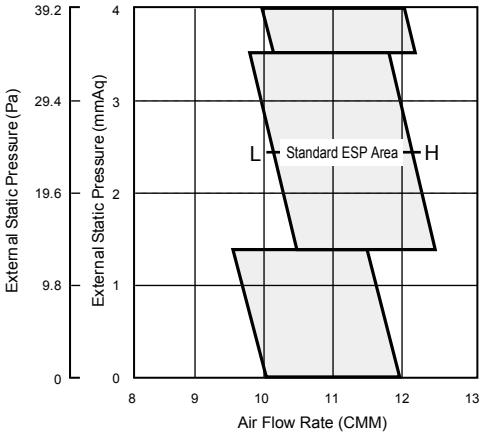
◆ Adjust option code according to the actual installation condition (external static pressure).

(1) AC035FBLDEH/EU



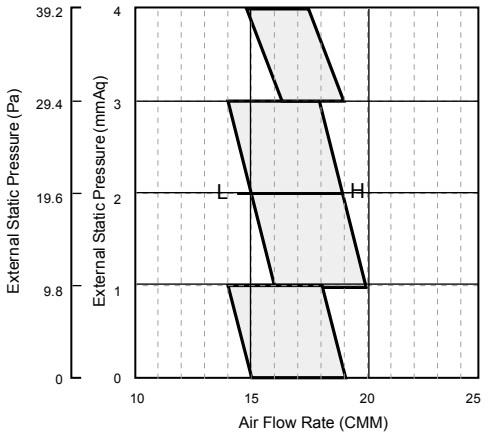
External Static pressure (mmAq)	Option code
0	011037-136153-272328-370010
2.5	011037-1361DB-272328-370010
4	011047-136220-272328-370010

(2) AC052FBLDEH/EU



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

(3) AC071FBLDEH/EU



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

☑ *Note*

◆ ESP = External Static Pressure

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



5 MSP(Middle static pressure) duct

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5 MSP(Middle static pressure) duct

5-1. Specifications

1) Technical specifications

Model Name		Indoor Unit			AC052FBMDEH/EU	AC071FBMDEH/EU	AC090FBMDEH/EU
		Outdoor Unit			AC052FCADEH/EU	AC071FCADEH/EU	AC090FCADEH/EU
System	Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP
	Capacity	Cooling (Min / Std / Max)		kW	1.00/5.00/6.00	2.20/7.10/8.00	2.80/9.00/11.50
				Btu/h	3,400/17,100/20,500	7,500/24,200/27,300	9,600/30,700/39,200
		Heating (Min / Std / Max)		kW	0.75/6.00/7.20	1.90/8.00/9.00	3.00/10.00/15.50
				Btu/h	2,600/20,500/24,600	6,500/27,300/30,700	10,200/34,100/52,900
	Power	Power Input (Nominal)	Cooling (Min / Std / Max)	kW	0.43/1.56/2.20	0.35/2.21/4.00	0.82/2.80/3.80
			Heating (Min / Std / Max)		0.33/1.66/2.30	0.35/2.22/4.00	0.80/2.77/5.20
		Current Input (Nominal)	Cooling (Min / Std / Max)	A	2.20/7.50/10.00	2.00/10.50/21.00	4.00/13.00/16.50
			Heating (Min / Std / Max)		1.90/7.80/10.00	2.00/10.50/21.00	3.30/12.50/24.00
		MCA		A	10.80 (MCA)	20.30 (MCA)	24.70 (MCA)
		MFA		A	13.13	25.00	30.00
	Energy Efficiency	EER (Nominal Cooling)		-	3.21	3.21	3.21
		COP (Nominal Heating)		-	3.61	3.60	3.61
		SEER (Cooling Energy Grade)		-	SEER 5.6(A+)	SEER 5.7(A+)	SEER 5.4(A)
		SCOP (Heating Energy Grade)		-	SOCP 3.6(A)	SOCP 3.8(A)	SOCP 3.7(A)
		Pdesignh		kW	3.6	4.8	6.8
	Piping Connections	Liquid Pipe		Ø, mm	6.35	6.35	9.52
				Ø, inch	1/4"	1/4"	3/8"
		Gas Pipe		Ø, mm	12.70	15.88	15.88
				Ø, inch	1/2"	5/8"	5/8"
		Installation Limitation	Max. Length (Outdoor to indoor)	m	30.0(35.0)	50(55)	50(55)
			Max. Height (Between ID/OD)	m	20.0(20.0)	30(30)	30(30)
	Field Wiring	Power Source Wire		-	2.5 ~ 4.0	2.5 ~ 4.0	2.5 ~ 4.0
		Transmission Cable		-	0.75 ~ 1.25	0.75 ~ 1.0	0.75 ~ 1.25
	Refrigerant	Type		-	R410A	R410A	R410A
		Control Method		-	-	-	-
		Factory Charging		kg	1.40	1.80	3.00
Indoor Unit	Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50
	Fan	Type		-	Sirocco Fan	Sirocco Fan	Sirocco Fan
		Motor	Output	W	-	-	-
		Number of Unit		EA	1.00	1.00	1.00
		Air Flow Rate	High / Mid / Low	CMM	20.00/18.00/15.50	22.00/20.00/17.50	33.00/31.00/28.00
				l/s	333.33/300.00/258.33	366.67/333.33/291.67	550.00/516.67/466.67
		External Static Pressure	Min / Std / Max	mmAq	0.00/2.50/8.00	0.00/4.00/10.00	0.00/4.00/10.00
				Pa	0.00/24.52/78.45	0.00/39.23/98.07	0.00/39.23/98.07
	Drain	Drain Pipe		Ø,mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
	Sound	Sound Pressure	High / Mid / Low	dB(A)	37.00/35.5/33.0	39.00/37.0/35.0	39.00/37.0/35.0
		Sound Power		dB(A)	60	65	65
	External Dimension	Net Weight		kg	29.50	33.00	37.00
		Shipping Weight		kg	34.50	40.00	43.00
		Net Dimensions (WxHxD)		mm	900 x 260 x 480	1150 x 260 x 480	1150 x 320 x 480
		Shipping Dimensions (WxHxD)		mm	1170 x 340 x 595	1420 x 340 x 595	1420 x 340 x 595
	Panel Size	Panel model		-	-	-	-
		Panel Net Weight		kg	-	-	-
		Shipping Weight		kg	-	-	-
		Net Dimensions (W×H×D)		mm	-	-	-
		Shipping Dimensions (W×H×D)		mm	-	-	-
	Additional Accessories	Drain pump	Drain pump	-	MDP-M075SGU1	MDP-M075SGU1	MDP-M075SGU1
			Max. Lifting Height / Displacement	mm/liter/h	-	-	-
		Air Filter		-	-	-	-
Outdoor Unit	Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50
	Compressor	Type		-	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary
		Model		-	UG4T150FUDJQ	UG4T200FUAE4SG	UG8T300FUBJUSG
		Output		kW	1.37	1.79	2.82
		Oil	Type	-	POE	POE	POE
			Initial Charge	cc	650.00	650.00	1200.00
	Fan	Air Flow Rate	Cooling	CMM	33.00	52.00	63.50
				l/s	550.00	866.67	1,058.33
	Sound	Sound Pressure	Cooling / Heating	dB(A)	49.0 / 49.0	49.0 / 51.0	51.0 / 52.0
		Sound Power		dB(A)	64	66	67
	External Dimension	Net Weight		kg	38.50	55.00	72.00
		Shipping Weight		kg	42.50	59.00	77.00
		Net Dimensions (WxHxD)		mm	790 x 548 x 285	880 x 798 x 310	940 x 998 x 330
		Shipping Dimensions (WxHxD)		mm	926 x 655 x 382	1023 x 891 x 413	995 x 1096 x 426
	Operating Temp. Range	Cooling		°C	-15~46	-15~50	-15~50
		Heating		°C	-15~24	-20~24	-20~24

Model Name		Indoor Unit			AC100FBMDEH/EU	AC100FBMDEH/EU	NS125SDXEA	NS125SDXEA
		Outdoor Unit			AC100FCADEH/EU	AC100FCADGH/EU	RC125DHXGA	RC125DHXEB
System	Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP
	Capacity	Cooling (Min / Std / Max)		kW	3.20/10.00/12.00	3.20/10.00/12.00	3.45/12.50/14.00	3.45/12.50/14.00
				Btu/h	10,900/34,100/40,900	10,900/34,100/40,900	11,800/42,700/47,800	11,800/42,700/47,800
		Heating (Min / Std / Max)		kW	3.00/11.20/15.50	3.00/11.20/15.50	4.10/14.00/18.00	4.10/14.00/18.00
				Btu/h	10,200/38,200/52,900	10,200/38,200/52,900	14,000/47,800/61,400	14,000/47,800/61,400
	Power	Power Input (Nominal)	Cooling (Min / Std / Max)	kW	0.88/3.22/5.00	0.88/3.22/5.00	1.25/3.89/5.30	1.25/3.89/5.30
			Heating (Min / Std / Max)		0.71/3.10/5.50	0.71/3.10/5.50	0.98/3.88/5.60	0.98/3.88/5.60
		Current Input (Nominal)	Cooling (Min / Std / Max)	A	4.00/15.20/21.00	2.20/5.40/7.30	2.00/6.10/8.20	5.70/18.00/24.30
			Heating (Min / Std / Max)		3.30/13.50/24.00	1.70/5.00/9.00	1.50/6.10/8.60	4.50/18.00/25.60
		MCA		A	24.70 (MCA)	12.70 (MCA)	14.00 (MCA)	26.00 (MCA)
		MFA		A	30.00	15.00	15.4	30.00
	Energy Efficiency	EER (Nominal Cooling)		-	3.11	3.11	3.21	3.21
		COP (Nominal Heating)		-	3.61	3.61	3.61	3.61
		SEER (Cooling Energy Grade)		-	SEER 5.2(A)	SEER 5.1(A)	Energy Grade (C) A	Energy Grade (C) A
		SCOP (Heating Energy Grade)		-	SOCP 3.7(A)	SOCP 3.5(A)	Energy Grade (H) A	Energy Grade (H) A
		Pdesignh		kW	6.8	6.8		
	Piping Connections	Liquid Pipe		Ø, mm	9.52	9.52	9.52	9.52
				Ø, inch	3/8"	3/8"	3/8"	3/8"
		Gas Pipe		Ø, mm	15.88	15.88	15.88	15.88
				Ø, inch	5/8"	5/8"	5/8"	5/8"
		Installation Limitation	Max. Length (Outdoor to indoor)	m	50(55)	50(55)	75(75)	75(75)
			Max. Height (Between ID/OD)	m	30(30)	30(30)	30(30)	30(30)
	Field Wiring	Power Source Wire		-	2.5 ~ 4.0	1.5 ~ 2.5	1.5 ~ 2.5	2.5 ~ 4.0
		Transmission Cable		-	0.75 ~ 1.25	0.75 ~ 1.25	0.75 ~ 1.25	0.75 ~ 1.25
	Refrigerant	Type		-	R410A	R410A	R410A	R410A
		Control Method		-	-	-	-	-
		Factory Charging		kg	3.00	3.10	2.90	2.90
Indoor Unit	Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50
	Fan	Type		-	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan
		Motor	Output	W	-	-	-	-
		Number of Unit		EA	1.00	1.00	1.00	1.00
		Air Flow Rate	High / Mid / Low	CMM	33.00/31.00/28.00	33.00/31.00/28.00	42.00/38.50/35.00	42.00/38.50/35.00
				l/s	550.00/516.67/466.67	550.00/516.67/466.67	700.00/641.67/583.33	700.00/641.67/583.33
		External Static Pressure	Min / Std / Max	mmAq	0.00/4.00/10.00	0.00/4.00/10.00	0.00/6.00/14.00	0.00/6.00/14.00
				Pa	0.00/39.23/98.07	0.00/39.23/98.07	0.00/58.84/137.29	0.00/58.84/137.29
	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)	39.00/37.0/35.0	39.00/37.0/35.0	43.00/40.5/38.0	43.00/40.5/38.0
		Sound Power		dB(A)	65	65	67	67
	External Dimension	Net Weight		kg	37	37	55.00	55.00
		Shipping Weight		kg	43	43	60.00	60.00
		Net Dimensions (WxHxD)		mm	1150 x 320 x 480	1150 x 320 x 480	1200 x 360 x 650	1200 x 360 x 650
		Shipping Dimensions (WxHxD)		mm	1420 x 340 x 595	1420 x 340 x 595	1447 x 425 x 769	1447 x 425 x 769
	Panel Size	Panel model		-	-	-	-	-
		Panel Net Weight		kg	-	-	-	-
		Shipping Weight		kg	-	-	-	-
		Net Dimensions (W×H×D)		mm	-	-	-	-
		Shipping Dimensions (W×H×D)		mm	-	-	-	-
	Additional Accessories	Drain pump	Drain pump	-	MDP-M075SGU1	MDP-M075SGU1	MDP-M075SGU2	MDP-M075SGU2
			Max. Lifting Height / Displacement	mm/liter/h	-	-	-	-
		Air Filter		-	-	-	-	-
Outdoor Unit	Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	1, 2, 220-240, 50
	Compressor	Type		-	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary
		Model		-	UG8T300FUBJUSG	UG5T450FUFJXSG	UG5T450FUFJXSG	UG5T450FUEJXSG
		Output		kW	2.82	4.12	4.12	4.12
		Oil	Type	-	POE	POE	POE	POE
			Initial Charge	cc	1200.00	1700.00	1700.00	1700.00
	Fan	Air Flow Rate	Cooling	CMM	63.50	63.50	90.50	90.50
				l/s	1,058.33	1,058.33	1,508.33	1,508.33
	Sound	Sound Pressure	Cooling / Heating	dB(A)	52.0 / 53.0	52.0 / 53.0	51.0 / 52.0	51.0 / 52.0
		Sound Power		dB(A)	68	68	70	70
	External Dimension	Net Weight		kg	72.00	81.00	91.00	88.00
		Shipping Weight		kg	77.00	86.00	101.00	98.00
		Net Dimensions (WxHxD)		mm	940 x 998 x 330	940 x 998 x 330	940 x 1210 x 330	940 x 1210 x 330
		Shipping Dimensions (WxHxD)		mm	995 x 1096 x 426	995 x 1096 x 426	995 x 1338 x 426	995 x 1338 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

5 MSP(Middle static pressure) duct

5-1. Specifications

1) Technical specifications

Model Name		Indoor Unit				NS140SDXEA	NS140SDXEA
		Outdoor Unit				RC140DHXGA	RC140DHXEB
System	Mode				-	HEAT PUMP	HEAT PUMP
	Capacity	Cooling (Min / Std / Max)			kW	3.45/14.00/15.40	3.45/14.00/15.40
					Btu/h	11,800/47,800/52,500	11,800/47,800/52,500
		Heating (Min / Std / Max)			kW	3.75/16.00/18.50	3.75/16.00/18.50
					Btu/h	12,800/54,600/63,100	12,800/54,600/63,100
	Power	Power Input (Nominal)	Cooling (Min / Std / Max)		kW	1.25/4.65/5.70	1.25/4.65/5.70
			Heating (Min / Std / Max)			1.00/4.43/5.80	1.00/4.43/5.80
		Current Input (Nominal)	Cooling (Min / Std / Max)		A	2.00/7.20/8.80	5.70/21.30/26.10
			Heating (Min / Std / Max)			1.60/6.90/9.00	4.50/20.30/26.50
		MCA			A	14.00 (MCA)	26.00 (MCA)
		MFA			A	15.4	30.00
	Energy Efficiency	EER (Nominal Cooling)			-	3.01	3.01
		COP (Nominal Heating)			-	3.61	3.61
		SEER (Cooling Energy Grade)			-	Energy Grade (C) B	Energy Grade (C) B
		SCOP (Heating Energy Grade)			-	Energy Grade (H) A	Energy Grade (H) A
		Pdesignh			kW		
	Piping Connections	Liquid Pipe			Ø, mm	9.52	9.52
					Ø, inch	3/8"	3/8"
		Gas Pipe			Ø, mm	19.05	19.05
					Ø, inch	3/4"	3/4"
		Installation Limitation	Max. Length (Outdoor to indoor)		m	75(75)	75(75)
			Max. Height (Between ID/OD)		m	30(30)	30(30)
	Field Wiring	Power Source Wire			-	1.5 ~ 2.5	2.5 ~ 4.0
		Transmission Cable			-	0.75 ~ 1.25	0.75 ~ 1.25
	Refrigerant	Type			-	R410A	R410A
		Control Method			-	-	-
		Factory Charging			kg	3.40	3.40
Indoor Unit	Power Supply				Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50
	Fan	Type			-	Sirocco Fan	Sirocco Fan
		Motor	Output		W	-	-
		Number of Unit			EA	1.00	1.00
		Air Flow Rate	High / Mid / Low		CMM	43.00/39.00/35.00	43.00/39.00/35.00
					l/s	716.67/650.00/583.33	716.67/650.00/583.33
		External Static Pressure	Min / Std / Max		mmAq	0.00/6.00/14.00	0.00/6.00/14.00
					Pa	0.00/58.84/137.29	0.00/58.84/137.29
	Drain	Drain Pipe			Ø,mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
	Sound	Sound Pressure	High / Mid / Low		dB(A)	43.00/40.5/38.0	43.00/40.5/38.0
		Sound Power			dB(A)	67	67
	External Dimension	Net Weight			kg	55.00	55.00
		Shipping Weight			kg	60.00	60.00
		Net Dimensions (WxHxD)			mm	1200 x 360 x 650	1200 x 360 x 650
		Shipping Dimensions (WxHxD)			mm	1447 x 425 x 769	1447 x 425 x 769
	Panel Size	Panel model			-	-	-
		Panel Net Weight			kg	-	-
		Shipping Weight			kg	-	-
		Net Dimensions (W×H×D)			mm	-	-
		Shipping Dimensions (W×H×D)			mm	-	-
	Additional Accessories	Drain pump	Drain pump		-	MDP-M075SGU2	MDP-M075SGU2
			Max. Lifting Height / Displacement		mm/liter/h	-	-
		Air Filter			-	-	-
Outdoor Unit	Power Supply				Ø, #, V, Hz	3, 4, 380-415, 50	1, 2, 220-240, 50
	Compressor	Type			-	Twin BLDC Rotary	Twin BLDC Rotary
		Model			-	UG5T450FUFJXSG	UG5T450FUEJXSG
		Output			kW	4.12	4.12
		Oil	Type		-	POE	POE
			Initial Charge		cc	1700.00	1700.00
	Fan	Air Flow Rate	Cooling		CMM	90.50	90.50
					l/s	1,508.33	1,508.33
	Sound	Sound Pressure	Cooling / Heating		dB(A)	51.0 / 54.0	52.0 / 54.0
		Sound Power			dB(A)	71	71
	External Dimension	Net Weight			kg	91.00	88.00
		Shipping Weight			kg	101.00	98.00
		Net Dimensions (WxHxD)			mm	940 x 1210 x 330	940 x 1210 x 330
		Shipping Dimensions (WxHxD)			mm	995 x 1338 x 426	995 x 1338 x 426
	Operating Temp. Range	Cooling			°C	-15~50	-15~50
		Heating			°C	-20~24	-20~24

Model Name		Indoor Unit			AC052FBMSEH/EU	AC071FBMSEH/EU	AC090FBMSEH/EU	AC100FBMSEH/EU
		Outdoor Unit			AC052FCASEH/EU	AC071FCASEH/EU	AC090FCASEH/EU	AC100FCASEH/EU
System	Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP
	Capacity	Cooling (Min / Std / Max)		kW	1.10/5.00/5.90	1.60/7.00/8.00	2.80/9.00/10.00	2.80/10.00/11.50
				Btu/h	3,800/17,100/20,100	5,500/23,900/27,300	9,600/30,700/34,100	9,600/34,100/39,200
		Heating (Min / Std / Max)		kW	1.00/5.50/6.70	1.40/7.70/8.20	3.00/9.50/13.00	3.00/11.20/15.50
				Btu/h	3,400/18,800/22,900	4,800/26,300/28,000	10,200/32,400/44,400	10,200/38,200/52,900
	Power	Power Input (Nominal)	Cooling (Min / Std / Max)	kW	0.39/1.84/2.05	0.55/2.79/2.92	0.82/3.20/4.50	0.82/3.99/4.50
			Heating (Min / Std / Max)		0.29/1.66/2.60	0.50/2.40/2.85	0.80/2.87/5.00	0.80/3.72/5.50
		Current Input (Nominal)	Cooling (Min / Std / Max)	A	2.10/8.50/9.50	2.70/14.50/14.80	3.80/14.00/19.50	3.80/16.00/19.50
			Heating (Min / Std / Max)		1.80/7.90/9.30	2.50/13.50/13.80	2.80/13.00/24.00	2.80/15.00/24.00
		MCA		A	12.15 (MCA)	21.65 (MCA)	23.50 (MCA)	25.00 (MCA)
		MFA		A	13.40	25.00	27.50	30.00
	Energy Efficiency	EER (Nominal Cooling)		-	2.72	2.51	2.81	2.51
		COP (Nominal Heating)		-	3.31	3.21	3.31	3.01
		SEER (Cooling Energy Grade)		-	SEER 4.1(C)	SEER 4.1(C)	SEER 4.3(C)	SEER 4.3(C)
		SCOP (Heating Energy Grade)		-	SOCP 3.4(A)	SOCP 3.4(A)	SOCP 3.4(A)	SOCP 3.4(A)
		Pdesignh		kW	2.5	2.9	6.8	6.8
	Piping Connections	Liquid Pipe		Ø, mm	6.35	6.35	9.52	9.52
				Ø, inch	1/4"	1/4"	3/8"	3/8"
		Gas Pipe		Ø, mm	12.70	15.88	15.88	15.88
				Ø, inch	1/2"	5/8"	5/8"	5/8"
		Installation Limitation	Max. Length (Outdoor to indoor)	m	30(35)	30(35)	50(55)	50(55)
			Max. Height (Between ID/OD)	m	20(20)	20(20)	30(30)	30(30)
	Field Wiring	Power Source Wire		-	2.5 ~ 4.0	2.5 ~ 4.0	2.5 ~ 4.0	2.5 ~ 4.0
		Transmission Cable		-	0.75 ~ 1.25	0.75 ~ 1.0	0.75 ~ 1.25	0.75 ~ 1.25
	Refrigerant	Type		-	R410A	R410A	R410A	R410A
		Control Method		-	-	-	-	-
		Factory Charging		kg	1.30	1.80	3.00	3.00
Indoor Unit	Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50
	Fan	Type		-	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan
		Motor	Output	W	-	-	-	-
		Number of Unit		EA	1.00	1.00	1.00	1.00
		Air Flow Rate	High / Mid / Low	CMM	14.50/13.00/11.50	21.50/19.70/18.00	24.00/22.00/20.00	24.00/22.00/20.00
				l/s	241.67/216.67/191.67	358.33/328.33/300.00	400.00/366.67/333.33	400.00/366.67/333.33
		External Static Pressure	Min / Std / Max	mmAq	0.00/3.00/6.00	0.00/3.00/6.00	0.00/4.00/8.00	0.00/4.00/8.00
				Pa	0.00/29.42/58.84	0.00/29.42/58.84	0.00/39.23/78.45	0.00/39.23/78.45
	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)	37.00/35.5/33.0	38.00/36.00/34.00	39.00/37.0/35.0	40.00/37.0/35.0
		Sound Power		dB(A)	60	65	65	65
	External Dimension	Net Weight		kg	29.00	29.00	34.00	55.00
		Shipping Weight		kg	34.00	34.00	40.00	60.00
		Net Dimensions (WxHxD)		mm	900 x 260 x 480	900 x 260 x 480	1150 x 260 x 480	1150 x 260 x 480
		Shipping Dimensions (WxHxD)		mm	1146 x 363 x 584	1146 x 363 x 584	1405 x 354 x 593	1405 x 354 x 593
	Panel Size	Panel model		-	-	-	-	-
		Panel Net Weight		kg	-	-	-	-
		Shipping Weight		kg	-	-	-	-
		Net Dimensions (W×H×D)		mm	-	-	-	-
		Shipping Dimensions (W×H×D)		mm	-	-	-	-
	Additional Accessories	Drain pump	Drain pump	-	MDP-M075SGU1	MDP-M075SGU1	MDP-M075SGU1	MDP-M075SGU1
			Max. Lifting Height / Displacement	mm/liter/h	-	-	-	-
		Air Filter		-	-	-	-	-
Outdoor Unit	Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50
	Compressor	Type		-	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary
		Model		-	UG4T150FUDJQ	UG4T200FUAE4SG	UG8T300FUBJUSG	UG8T300FUBJUSG
		Output		kW	1.37	1.79	2.82	2.82
		Oil	Type	-	POE	POE	POE	POE
			Initial Charge	cc	650.00	650.00	1200.00	1200.00
	Fan	Air Flow Rate	Cooling	CMM	37.00	52.00	68.00	68.00
				l/s	616.67	866.67	1,133.33	1,133.33
	Sound	Sound Pressure	Cooling / Heating	dB(A)	49.0 / 49.0	52.0 / 52.0	52.0 / 53.0	52.0 / 53.0
		Sound Power		dB(A)	64	67	68	69
	External Dimension	Net Weight		kg	36.00	47.00	72.00	72.00
		Shipping Weight		kg	40.00	52.00	77.00	77.00
		Net Dimensions (WxHxD)		mm	790 x 548 x 285	880 x 638 x 310	940 x 998 x 330	940 x 998 x 330
		Shipping Dimensions (WxHxD)		mm	926 x 655 x 382	1024 x 750 x 414	995 x 1096 x 426	995 x 1096 x 426
	Operating Temp. Range	Cooling		°C	-5~43	-5~43	-15~50	-15~50
		Heating		°C	-15~24	-20~24	-20~24	-20~24

5-2. Capacity tables

1) AC052FCADEH/EU+AC052FBMDEH/EU

(1) Cooling

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

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)											
		-15			21			35			46		
WB	DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	5.22	3.91	1.32	5.41	4.06	1.47	4.65	3.49	1.45	3.72	2.79	2.18
16	22	5.34	4.01	1.35	5.54	4.16	1.51	4.76	3.57	1.49	3.81	2.86	2.24
18	25	5.48	4.11	1.39	5.68	4.26	1.54	4.88	3.66	1.52	3.90	2.93	2.29
19	27	5.61	4.21	1.42	5.82	4.37	1.58	5.00	3.75	1.56	4.00	3.00	2.35
22	30	5.74	4.31	1.45	5.96	4.47	1.62	5.12	3.84	1.60	4.10	3.07	2.41
24	32	5.88	4.41	1.49	6.10	4.58	1.66	5.24	3.93	1.64	4.19	3.15	2.46

(2) Heating

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

Indoor Temperature(°C)	Outdoor Temperature (°C, DB)							
	-15		-10		7		24	
DB	TC	PI	TC	PI	TC	PI	TC	PI
16	4.39	2.05	5.30	2.17	6.12	1.69	6.32	1.79
18	4.34	2.03	5.25	2.15	6.06	1.68	6.26	1.77
20	4.30	2.01	5.20	2.13	6.00	1.66	6.20	1.75
21	4.26	1.99	5.15	2.11	5.94	1.64	6.14	1.73
22	4.21	1.97	5.10	2.09	5.88	1.63	6.08	1.72
24	4.17	1.95	5.05	2.07	5.82	1.61	6.02	1.70

2) AC071FCADEH/EU+AC071FBMDEH/EU

(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	6.12	1.75	7.64	6.11	1.96	6.60	5.28	2.05	5.70	4.56	2.93	4.23	3.38	2.84
16	22	7.84	6.27	1.79	7.83	6.26	2.01	6.76	5.41	2.11	5.84	4.67	3.00	4.33	3.47	2.91
18	25	8.03	6.43	1.83	8.02	6.42	2.06	6.93	5.54	2.16	5.98	4.79	3.07	4.44	3.55	2.98
19	27	8.23	6.58	1.88	8.22	6.58	2.11	7.10	5.68	2.21	6.13	4.90	3.15	4.55	3.64	3.05
22	30	8.43	6.74	1.93	8.42	6.73	2.16	7.27	5.82	2.26	6.28	5.02	3.23	4.66	3.73	3.12
24	32	8.63	6.90	1.97	8.62	6.90	2.21	7.44	5.96	2.32	6.43	5.14	3.30	4.77	3.82	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	5.82	2.85	6.90	2.62	8.16	2.26	8.63	2.33
18	5.77	2.82	6.83	2.60	8.08	2.24	8.54	2.30
20	5.71	2.79	6.76	2.57	8.00	2.22	8.46	2.28
21	5.65	2.76	6.69	2.54	7.92	2.20	8.38	2.26
22	5.60	2.73	6.63	2.52	7.84	2.18	8.29	2.23
24	5.54	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) AC090FCADEH/EU+AC090FBMDEH/EU

(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	7.59	1.95	9.11	7.29	2.09	8.37	6.69	2.60	8.09	6.47	3.69	6.12	4.89	3.33
16	22	9.72	7.77	2.00	9.34	7.47	2.14	8.57	6.86	2.67	8.29	6.63	3.78	6.27	5.01	3.41
18	25	9.96	7.96	2.05	9.56	7.65	2.20	8.78	7.03	2.73	8.49	6.79	3.87	6.42	5.14	3.49
19	27	10.20	8.16	2.10	9.80	7.84	2.25	9.00	7.20	2.80	8.70	6.96	3.97	6.58	5.26	3.58
22	30	10.44	8.36	2.15	10.04	8.03	2.30	9.22	7.37	2.87	8.91	7.13	4.07	6.74	5.39	3.67
24	32	10.70	8.56	2.20	10.28	8.22	2.36	9.44	7.55	2.94	9.12	7.30	4.16	6.90	5.52	3.75

(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	6.91	4.03	9.44	4.33	10.20	2.83	12.51	3.03
18	6.84	3.99	9.34	4.28	10.10	2.80	12.38	3.00
20	6.77	3.95	9.25	4.24	10.00	2.77	12.26	2.97
21	6.70	3.91	9.16	4.20	9.90	2.74	12.14	2.94
22	6.64	3.87	9.07	4.16	9.80	2.71	12.02	2.91
24	6.57	3.83	8.98	4.11	9.70	2.69	11.90	2.88

4) AC100FCADEH/EU+AC100FBMDEH/EU / AC100FCADGH/EU+AC100FBMDEH/EU

(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	8.48	2.70	10.41	8.33	2.79	9.30	7.44	2.90	8.51	6.81	4.18	6.32	5.06	3.86
16	22	10.86	8.69	2.76	10.67	8.54	2.86	9.53	7.62	2.97	8.72	6.97	4.29	6.48	5.18	3.95
18	25	11.13	8.90	2.83	10.93	8.74	2.93	9.76	7.81	3.05	8.93	7.14	4.39	6.64	5.31	4.05
19	27	11.40	9.12	2.90	11.20	8.96	3.00	10.00	8.00	3.12	9.15	7.32	4.50	6.80	5.44	4.15
22	30	11.67	9.34	2.97	11.47	9.18	3.07	10.24	8.19	3.19	9.37	7.50	4.61	6.96	5.57	4.25
24	32	11.95	9.56	3.04	11.74	9.40	3.15	10.49	8.39	3.27	9.59	7.68	4.72	7.13	5.70	4.35

(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	3.21
18	7.27	3.03	10.91	3.94	11.31	3.13	13.94	3.18
20	7.20	3.00	10.80	3.90	11.20	3.10	13.80	3.15
21	7.13	2.97	10.69	3.86	11.09	3.07	13.66	3.12
22	7.06	2.94	10.59	3.82	10.98	3.04	13.53	3.09
24	6.99	2.91	10.48	3.78	10.87	3.01	13.39	3.06

☑ *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) RC125DHXGA+NS125SDXEA / RC125DHXEB+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) RC140DHXGA+NS140SDXEA / RC140DHXEB+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) AC052FCASEH/EU+AC052FBMSEH/EU

(1) Cooling

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

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

(2) Heating

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

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

8) AC071FCASEH/EU+AC071FBMSEH/EU

(1) Cooling

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

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

(2) Heating

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

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

☑ ***Note***

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

5-2. Capacity tables

9) AC090FCASEH/EU+AC090FBMSEH/EU

(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) AC100FCASEH/EU+AC100FBMSEH/EU

(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

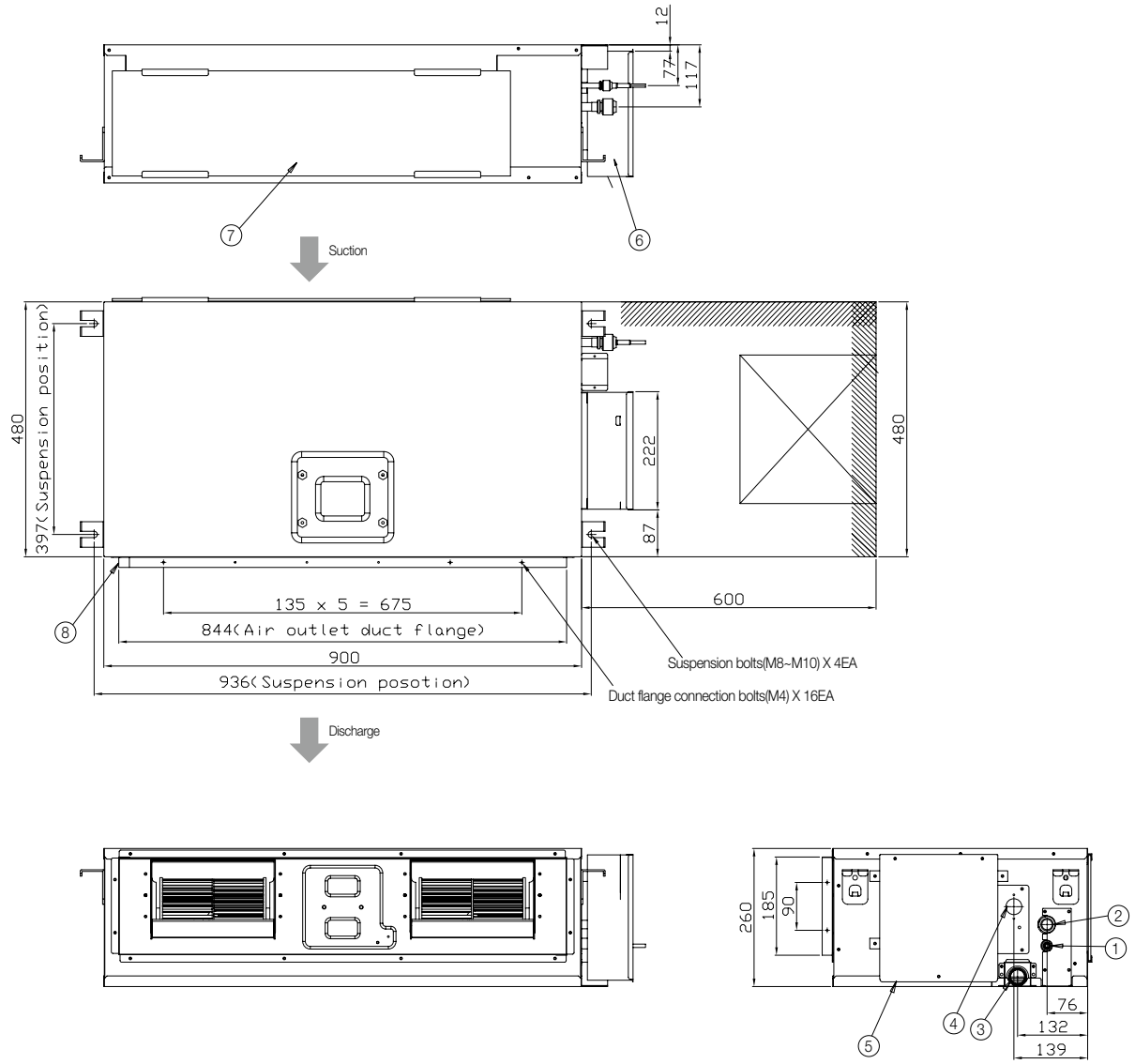
☑ ***Note***

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

5-3. Dimensional drawing

1) AC052FBMDEH/EU, AC052/071FBMSEH/EU

Unit:mm

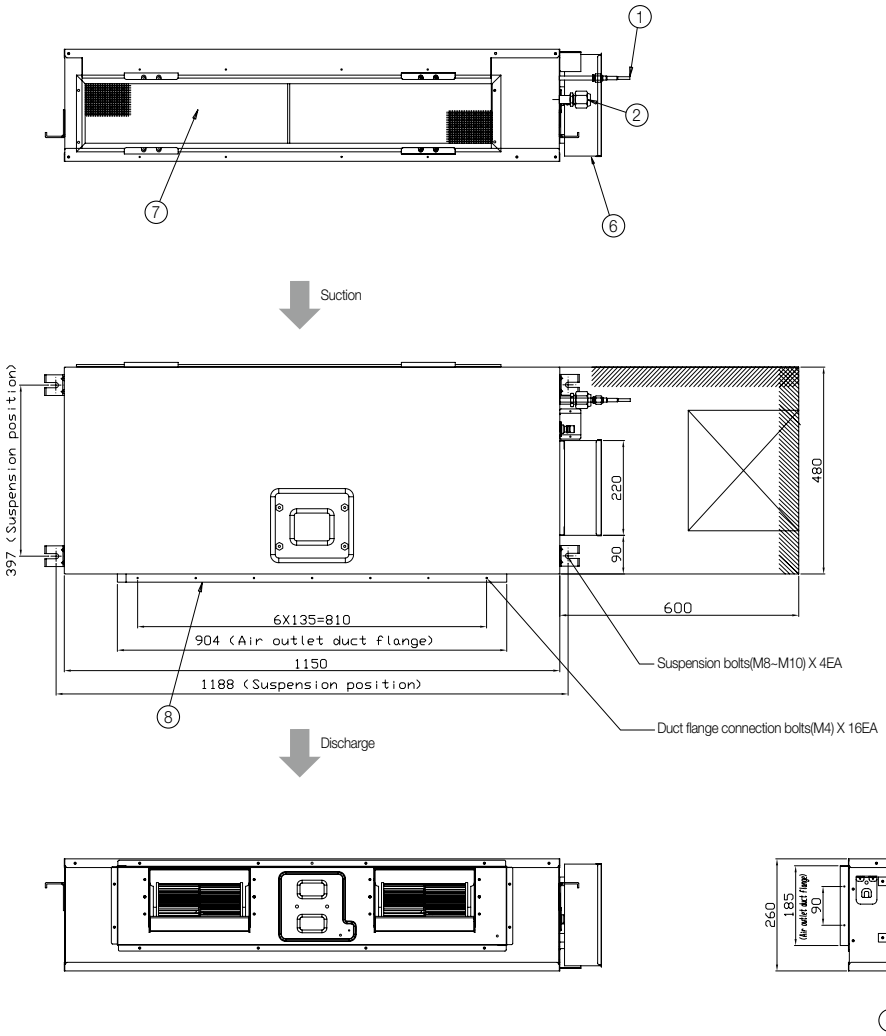


No.	Name	Description	
		5.0kW	7.1kW
①	Liquid pipe connection	Ø6.35mm (1/4") Flare	
②	Gas pipe connection	Ø12.70mm (1/2") Flare	Ø15.88mm (5/8") Flare
③	Drain pipe connection without optional drain pump kits	VP25 (OD32, ID25)	
④	Drain pipe connection with optional drain pump kits	-	
⑤	Control unit	-	
⑥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

5-3. Dimensional drawing

2) AC071FBMDEH/EU, AC090/100FBMSEH/EU

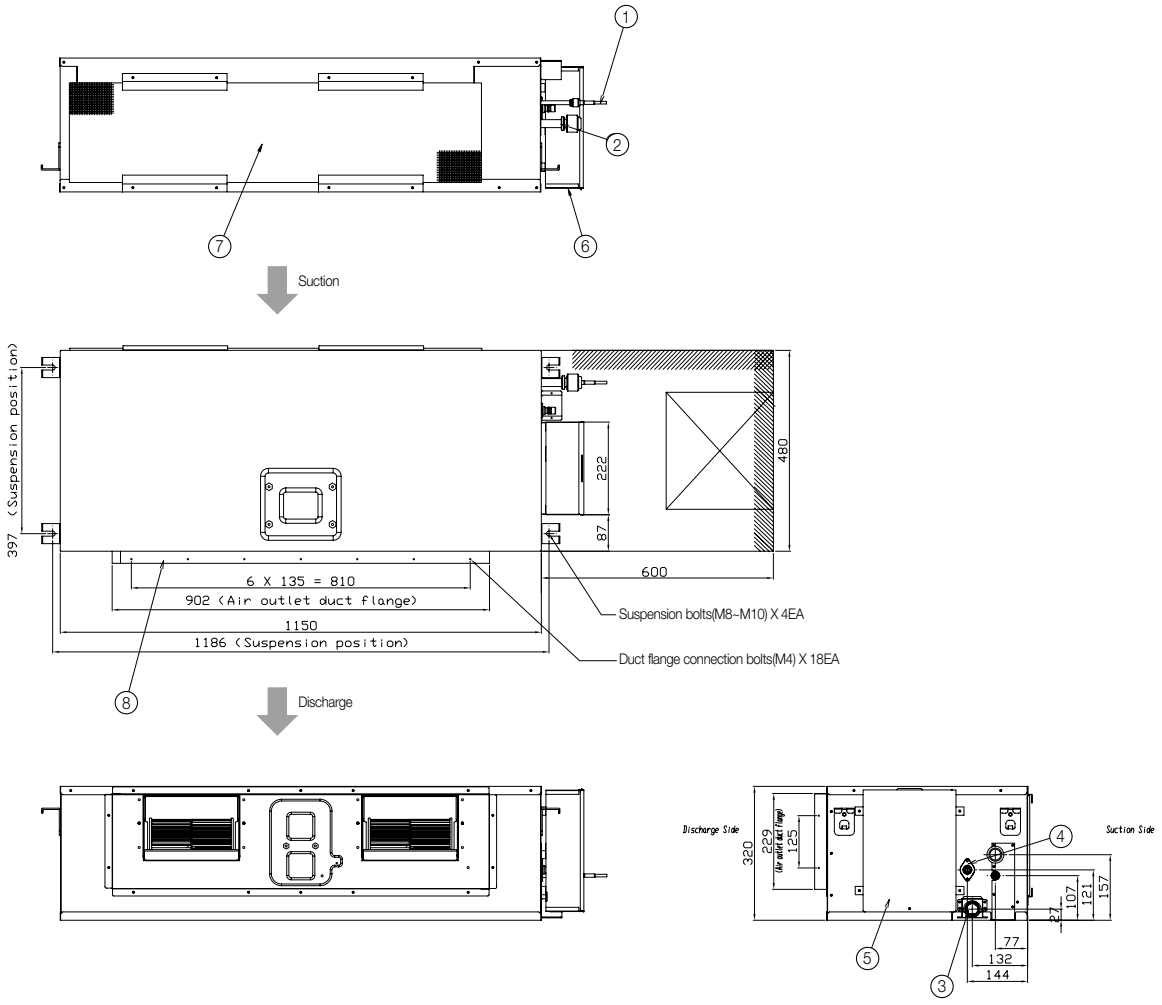
Unit:mm



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) AC090FBMDEH/EU

Unit:mm

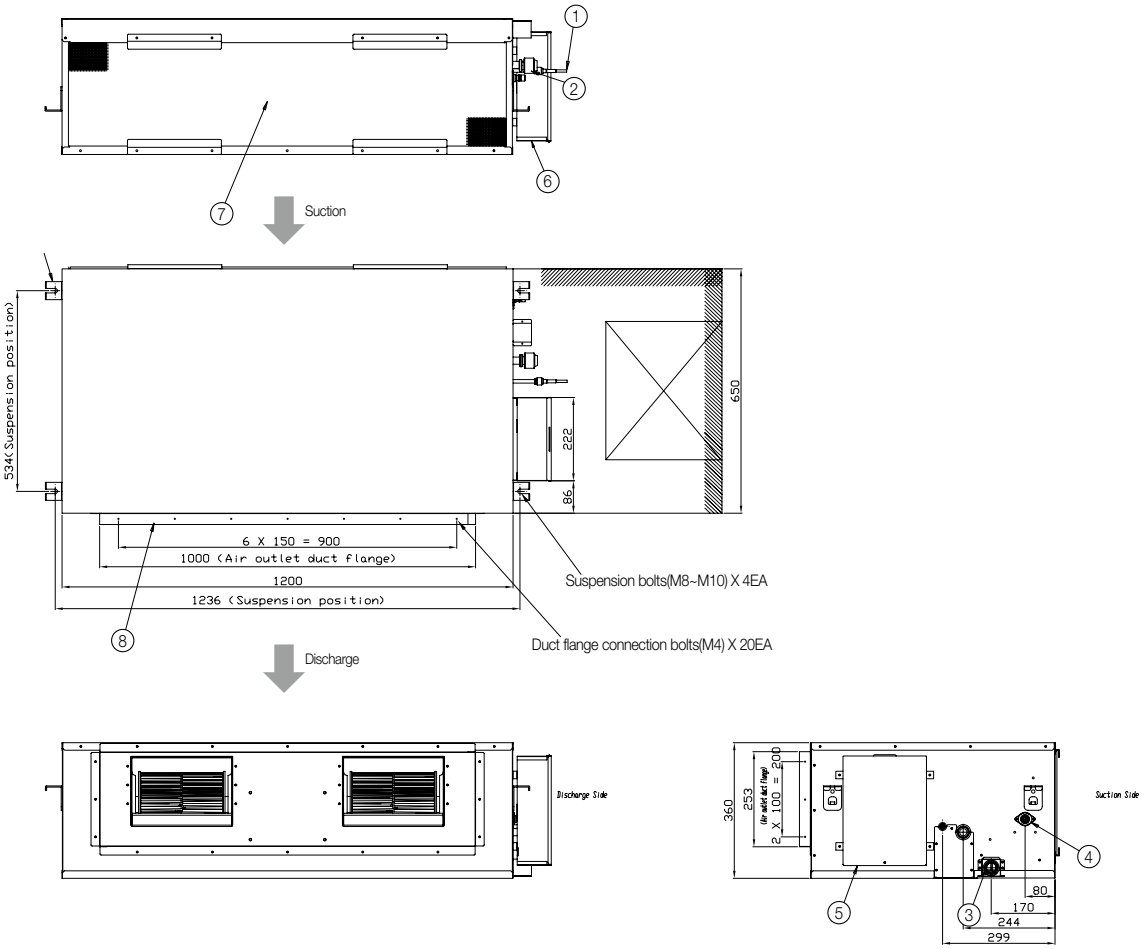


No.	Name	Description
		9.0kW
①	Liquid pipe connection	Ø9.52mm (3/8") Flare
②	Gas pipe connection	Ø15.88mm (5/8") Flare
③	Drain pipe connection without optional drain pump kits	VP25 (OD32, ID25)
④	Drain pipe connection with optional drain pump kits	-
⑤	Control unit	-
⑥	Conduit for power supply & communication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

5-3. Dimensional drawing

4) AC100FBMDEH/EU, NS125/140SDXEA

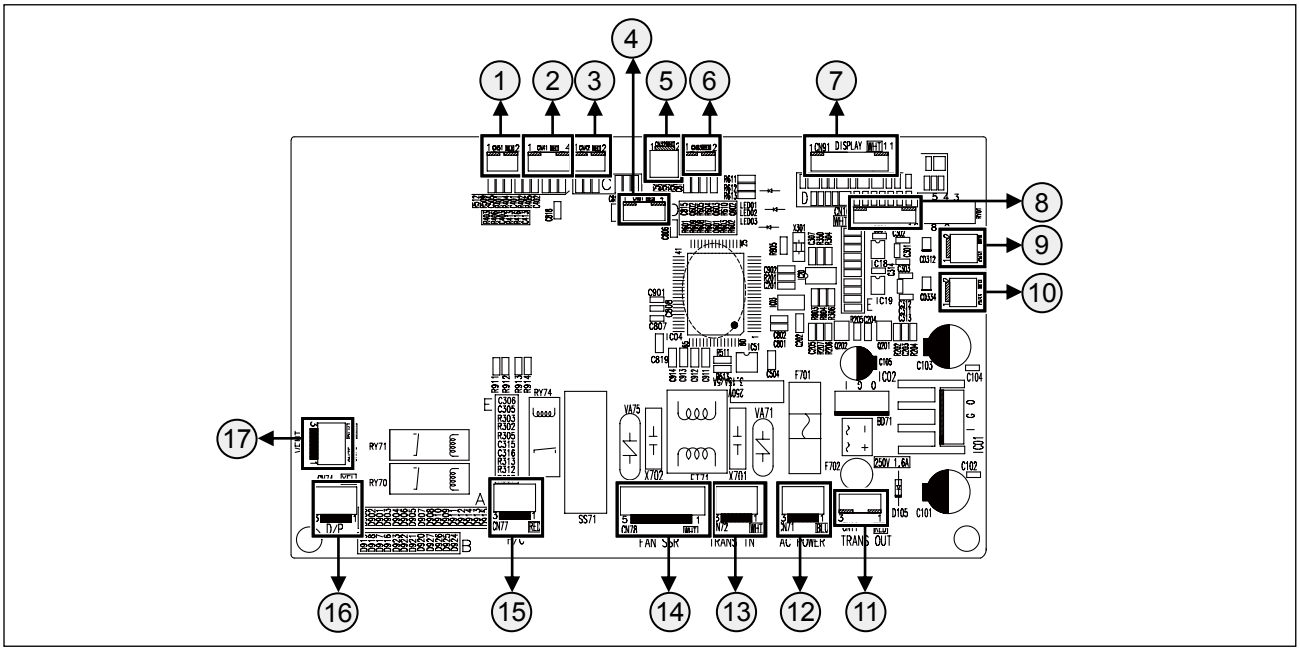
Unit:mm



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

5-4. PCB connector lay-out

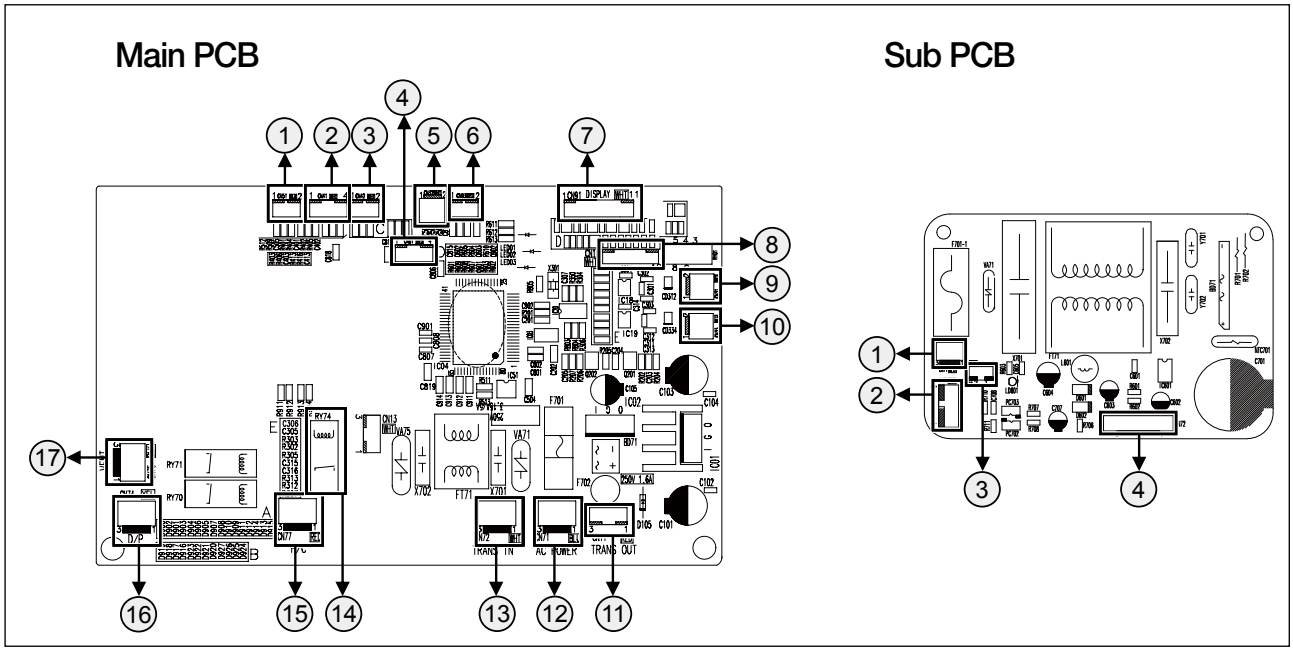
1) NS052/071SDXEA



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

5-4. PCB connector lay-out

2) AC052/071FBMDEH/EU , AC090/100FBMDEH/EU , AC090/100FBMSEH/EU



Main PCB

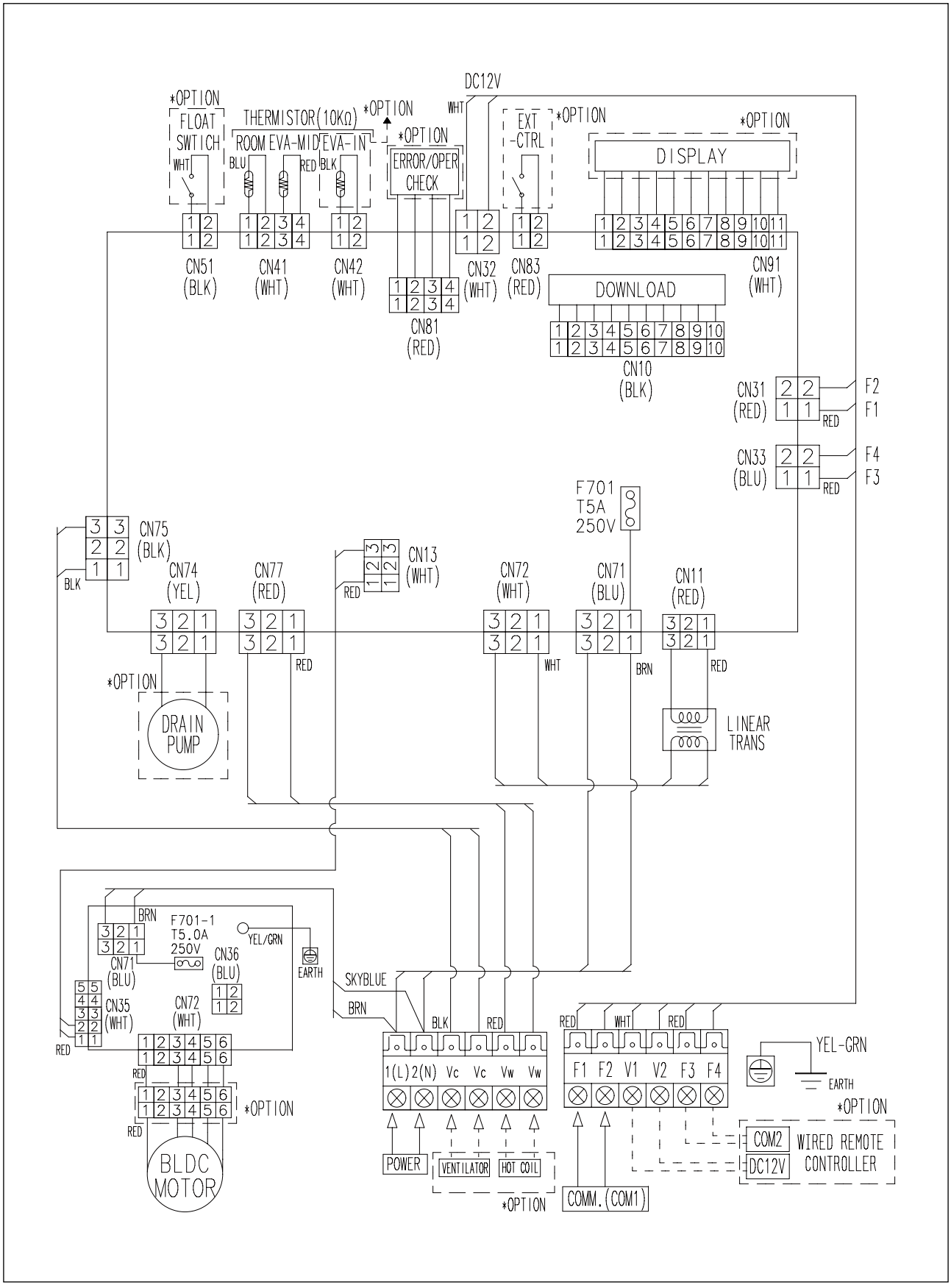
No.	CN #	Color	Function
①	CN51	Black	Float Switch
②	CN41	White	Indoor Room & Eva In Temp. Sensor
③	CN42	White	Eva Out Temp. Sensor
④	CN81	Red	External Control (Error Check, Indoor Unit Operation)
⑤	CN32	White	DC 12V for Wired Remote Controller
⑥	CN83	Red	External Contact Control
⑦	CN91	White	Display
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	CN13	White	FAN RPM SIGNAL(BLDC)
⑮	CN77	Red	Hot Water Coil
⑯	CN74	Yellow	Drain Pump
⑰	CN75	Black	Ventilator

Sub PCB

No.	CN #	Color	Function
①	CN71	Blue	AC POWER
②	CN35	White	FAN RPM SIGNAL(BLDC)
③	CN36	Blue	FAN RPM SIGNAL(BLDC)
④	CN72	White	BLDC MOTOR

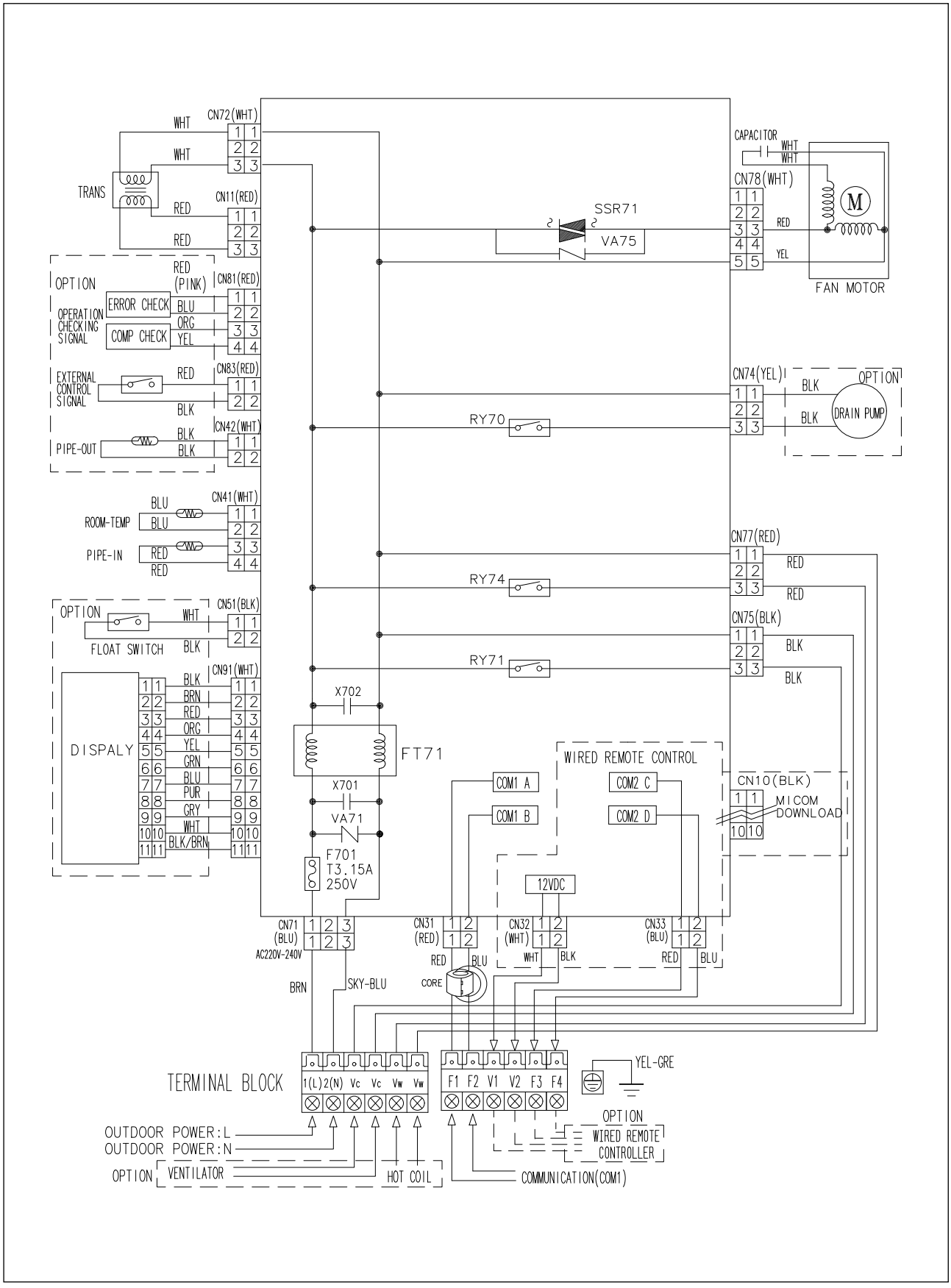
5-5. Electrical wiring diagram

1) AC052/071FBMDEH/EU , AC090/100FBMDEH/EU



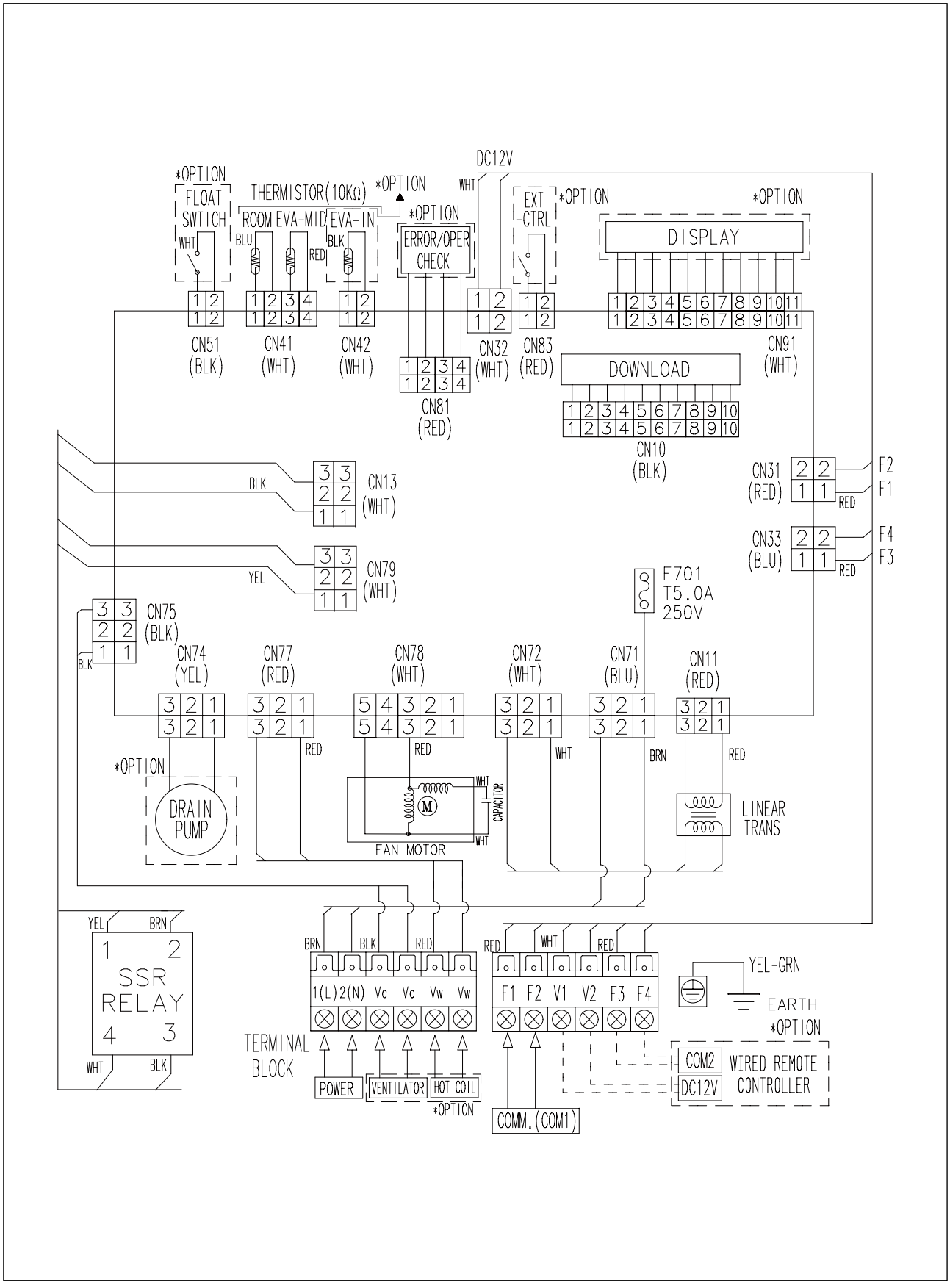
5-5. Electrical wiring diagram

2) NS125/140SDXEA



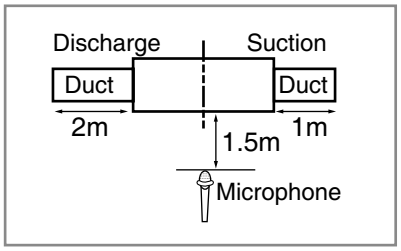
5-5. Electrical wiring diagram

3) AC090/400FBMSEH/EU



5-6. Sound pressure level

1) Operation sound level



Unit : dB(A)

Model	High	Low
AC052FBMDEH/EU	37	33
AC071FBMDEH/EU	39	35
AC090FBMDEH/EU	39	35
AC100FBMDEH/EU	39	35
NS125SDXEA	43	38

Unit : dB(A)

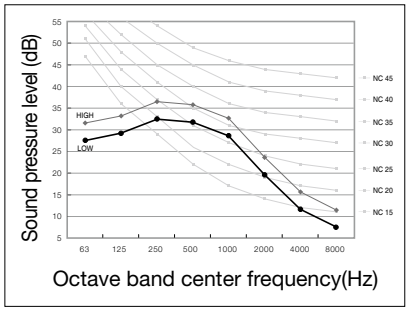
Model	High	Low
NS140SDXEA	43	38
AC052FBMSEH/EU	37	33
AC071FBMSEH/EU	38	34
AC090FBMSEH/EU	39	35
AC100FBMSEH/EU	40	35

☑ *Note*

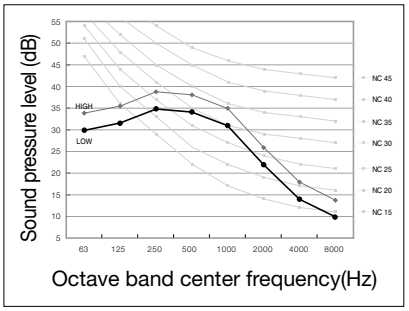
- ◆ These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- ◆ Operation sound level may differ depending on operation and ambient conditions.

2) NC curves

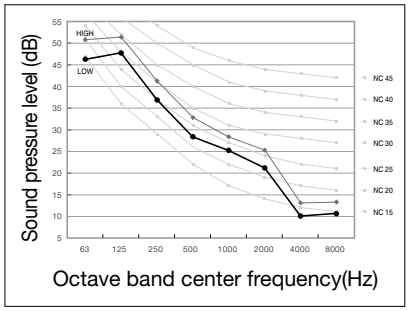
(1) AC052FBMDEH/EU



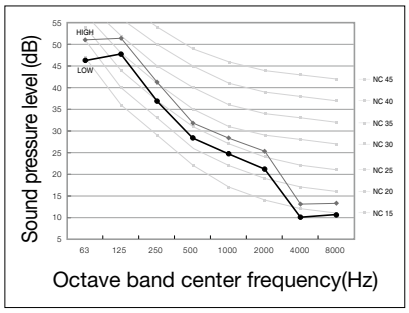
(2) AC071FBMDEH/EU



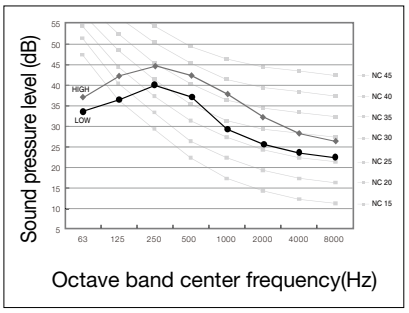
(3) AC090FBMDEH/EU



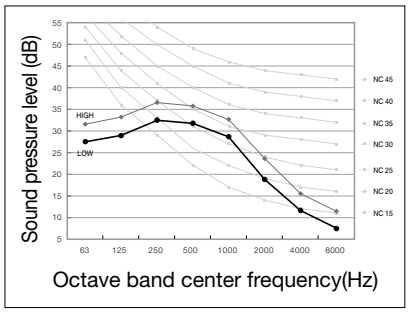
(4) AC100FBMDEH/EU



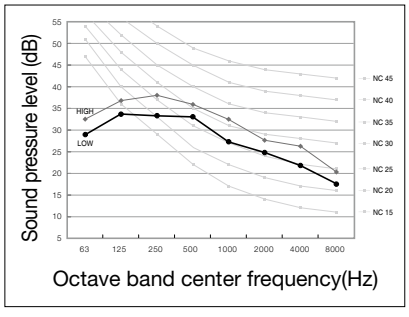
(5) NS125SDXEA, NS140SDXEA



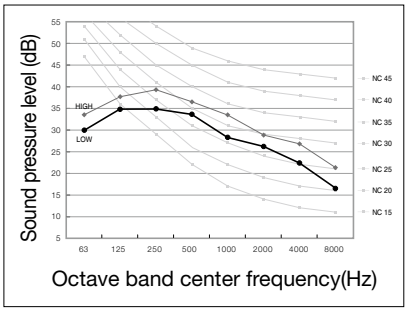
(6) AC052FBMSEH/EU



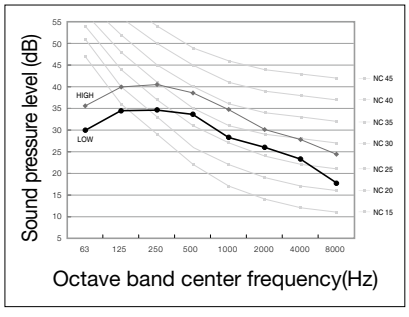
(7) AC071FBMSEH/EU



(8) AC090FBMSEH/EU



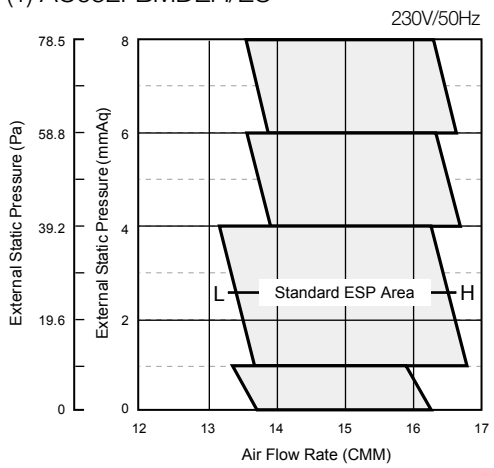
(10) AC100FBMSEH/EU



5-7. Recommended operation range

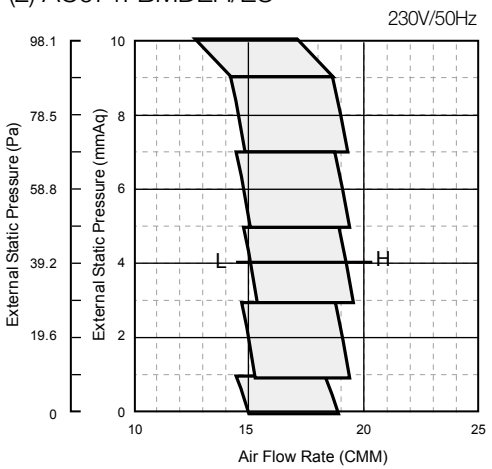
◆ Adjust option code according to the actual installation condition (external static pressure).

(1) AC052FBMDEH/EU



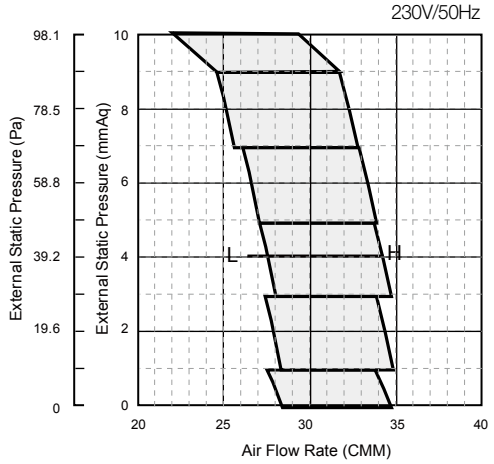
External Static pressure (mmAq)	Option code
0	011014-19625E-27343C-370010
2.5	011014-1963A2-27343C-370010
5	011034-196106-27343C-370010
8	011034-19630D-27343C-370010

(2) AC071FBMDEH/EU



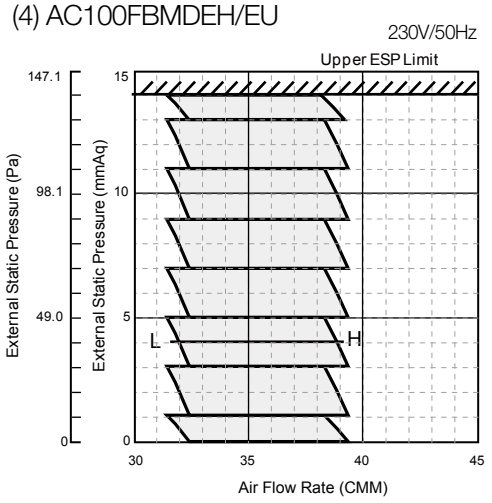
External Static pressure (mmAq)	Option code
0	011017-1563E7-274750-3700010
2	011037-15613A-274750-3700010
4	011037-11618C-274750-3700010
6	011047-116203-274750-3700010
8	011047-1162FF-274750-3700010
10	011047-1263FD-274750-3700010

(3) AC090FBMDEH/EU



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	

(4) AC100FBMDEH/EU



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*

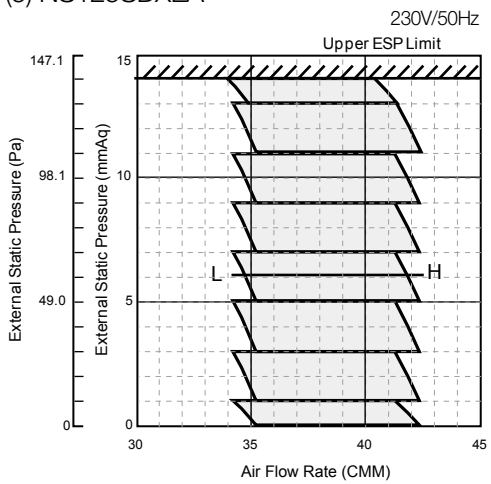
◆ ESP = External Static Pressure

◆ 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.

5-7. Recommended operation range

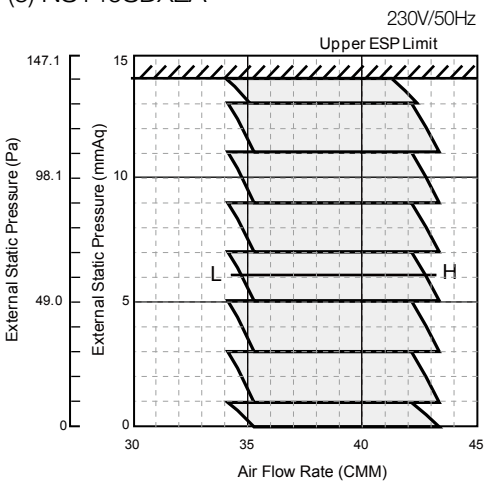
◆ Adjust option code according to the actual installation condition (external static pressure).

(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*

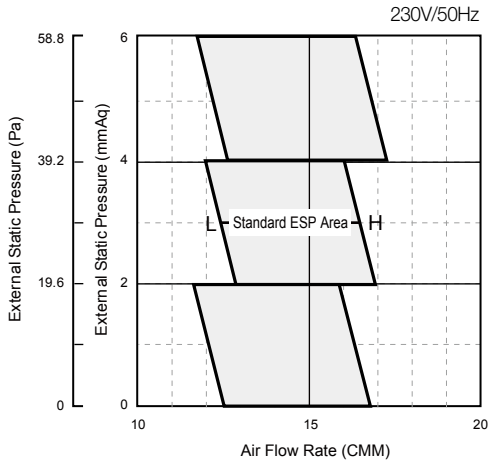
◆ ESP = External Static Pressure

◆ 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

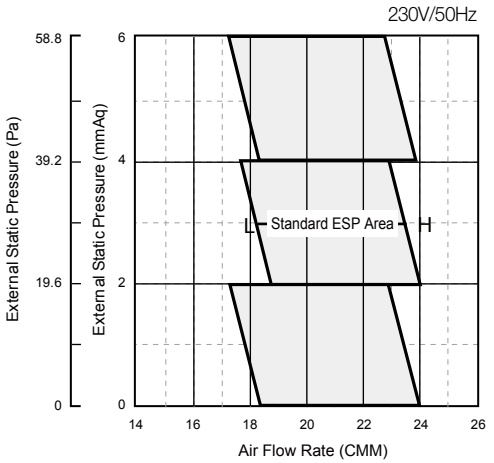
◆ Adjust option code according to the actual installation condition (external static pressure).

(7) AC052FBMSEH/EU



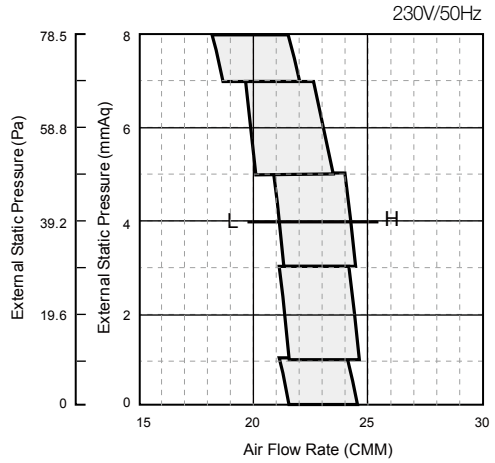
External Static pressure (mmAq)	Option code
0	011014-15624E-273438-370010
3	011014-1563A2-273438-370010
6	011034-15614A-273438-370010

(8) AC071FBMSEH/EU



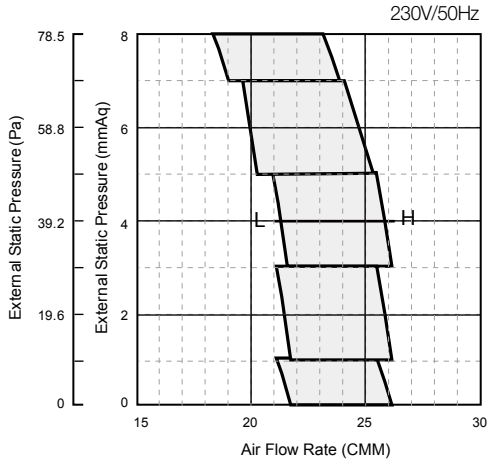
External Static pressure (mmAq)	Option code
0	011034-1561E8-274750-370010
3	011034-15637B-274750-370010
6	011044-1562E4-274750-270010

(9) AC090FBMSEH/EU



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) AC100FBMSEH/EU



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.

Specifications



6 Console

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6-1. Specifications

1) Technical specifications

Model Name	Indoor Unit			AC026FBJDEH/EU	AC035FBJDEH/EU	AC052FBJDEH/EU
	Outdoor Unit			AC026FCADEH/EU	AC035FCADEH/EU	AC052FCADEH/EU
System	Mode		-	HEAT PUMP	HEAT PUMP	HEAT PUMP
	Capacity	Cooling (Min / Std / Max)	kW	0.98/2.60/3.40	1.20/3.50/3.90	1.90/5.00/5.50
			Btu/h	3,300/8,900/11,600	4,100/11,900/13,300	6,500/17,100/18,800
		Heating (Min / Std / Max)	kW	0.95/3.50/4.20	1.04/4.00/4.40	1.50/5.60/6.50
			Btu/h	3,200/11,900/14,300	3,500/13,600/15,000	5,100/19,100/22,200
	Power	Power Input (Nominal)	Cooling (Min / Std / Max) kW	0.23/0.81/1.20	0.25/1.29/1.50	0.25/1.78/2.20
			Heating (Min / Std / Max) kW	0.21/1.06/1.30	0.21/1.33/1.40	0.25/1.92/2.50
		Current Input (Nominal)	Cooling (Min / Std / Max) A	1.60/4.00/5.50	1.60/6.00/7.00	2.60/8.00/10.00
			Heating (Min / Std / Max) A	1.30/5.00/6.50	1.30/6.20/7.20	2.30/8.70/14.00
		MCA	A	10.30 (MCA)	10.30 (MCA)	10.80 (MCA)
		MFA	A	12.50	12.50	13.13
	Energy Efficiency	EER (Nominal Cooling)	-	3.21	2.71	2.81
		COP (Nominal Heating)	-	3.30	3.01	2.92
		SEER (Cooling Energy Grade)	-	SEER 5.40 (A)	SEER 5.40 (A)	SEER 5.40 (A)
		SCOP (Heating Energy Grade)	-	SCOP 4.00 (A+)	SCOP 3.90 (A)	SCOP 3.50 (A)
		Pdesignh	kW	2.3	2.3	3.0
	Piping Connections	Liquid Pipe	Ø, mm	6.35	6.35	6.35
			Ø, inch	1/4"	1/4"	1/4"
		Gas Pipe	Ø, mm	9.52	9.52	12.70
			Ø, inch	3/8"	3/8"	1/2"
		Installation Limitation	Max. Length (Outdoor to indoor) m	20(25)	20(25)	30(35)
			Max. Height (Between ID/OD) m	15(15)	15(15)	20(20)
	Field Wiring	Power Source Wire	-	1.5 ~ 2.5	1.5 ~ 2.5	2.0
		Transmission Cable	-	0.75 ~ 1.25	0.75 ~ 1.25	0.75 ~ 1.25
	Refrigerant	Type	-	R410A	R410A	R410A
		Control Method	-	-	-	-
		Factory Charging	kg	0.95	0.95	1.40
Indoor Unit	Power Supply		Ø, #, V, Hz	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
		Motor Output	W	35.00	35.00	35.00
		Number of Unit	EA	1.00	1.00	1.00
		Air Flow Rate (High / Mid / Low)	CMM	8.50/7.50/6.50	9.80/8.50/7.50	13.00/11.50/10.00
			l/s	141.67/125.00/108.33	163.33/141.67/125.00	216.67/191.67/166.67
		External Static Pressure (Min / Std / Max)	mmAq	-	-	-
			Pa	-	-	-
	Drain	Drain Pipe	Ø,mm	ID 18 Hose	ID 18 Hose	ID 18 Hose
	Sound	Sound Pressure (High / Mid / Low)	dB(A)	38.00/30.5/23.0	39.00/31.5/24.0	44.00/34.5/25.0
		Sound Power	dB(A)	53	55	60
	External Dimension	Net Weight	kg	15.20	15.20	15.20
		Shipping Weight	kg	20.30	20.30	20.30
		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 299	810 x 710 x 299	810 x 710 x 299
	Panel Size	Panel model	-	-	-	-
		Panel Net Weight	kg	-	-	-
		Shipping Weight	kg	-	-	-
		Net Dimensions (W×H×D)	mm	-	-	-
		Shipping Dimensions (W×H×D)	mm	-	-	-
	Additional Accessories	Drain pump	Drain pump -	-	-	-
			Max. Lifting Height / Displacement mm/liter/h	-	-	-
		Air Filter	-	-	-	-
Outdoor Unit	Power Supply		Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50
	Compressor	Type	-	Single BLDC Rotary	Single BLDC Rotary	Twin BLDC Rotary
		Model	-	UG4C090LUDJR	UG4C090LUDJR	UG4T150FUDJQDO
		Output	kW	0.86	0.86	1.37
		Oil	Type -	POE	POE	POE
			Initial Charge cc	320.00	320.00	650.00
	Fan	Air Flow Rate (Cooling)	CMM	29.00	30.00	33.00
			l/s	483.33	500.00	550.00
	Sound	Sound Pressure (Cooling / Heating)	dB(A)	47.0 / 47.0	47.0 / 47.0	49.0 / 49.0
		Sound Power	dB(A)	61	61	64
	External Dimension	Net Weight	kg	33.00	33.00	38.50
		Shipping Weight	kg	37.00	37.00	42.50
		Net Dimensions (WxHxD)	mm	790 x 548 x 285	790 x 548 x 285	790 x 548 x 285
		Shipping Dimensions (WxHxD)	mm	926 x 655 x 382	926 x 655 x 382	926 x 655 x 382
	Operating Temp. Range	Cooling	°C	-10~46	-10~46	-10~46
		Heating	°C	-15~24	-15~24	-15~24

6-2. Capacity tables

1) AC026FCADEH/EU + AC026FBJDEH/EU

(1) Cooling

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

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)											
		-15			21			35			46		
WB	DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	2.88	2.16	0.34	3.01	2.26	0.78	2.42	1.81	0.75	2.46	1.85	1.12
16	22	2.95	2.21	0.35	3.09	2.31	0.80	2.48	1.86	0.77	2.52	1.89	1.14
18	25	3.03	2.27	0.36	3.16	2.37	0.82	2.54	1.90	0.79	2.59	1.94	1.17
19	27	3.10	2.33	0.37	3.24	2.43	0.84	2.60	1.95	0.81	2.65	1.99	1.20
22	30	3.17	2.38	0.38	3.32	2.49	0.86	2.66	2.00	0.83	2.71	2.04	1.23
24	32	3.25	2.44	0.39	3.40	2.55	0.88	2.73	2.04	0.85	2.78	2.08	1.26

(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	2.40	1.54	2.76	1.15	3.57	1.08	4.45	1.05
18	2.37	1.53	2.74	1.14	3.54	1.07	4.40	1.04
20	2.35	1.51	2.71	1.13	3.50	1.06	4.36	1.03
21	2.33	1.49	2.68	1.12	3.47	1.05	4.32	1.02
22	2.30	1.48	2.66	1.11	3.43	1.04	4.27	1.01
24	2.28	1.47	2.63	1.10	3.40	1.03	4.23	1.00

2) AC035FCADEH/EU + AC035FBJDEH/EU

(1) Cooling

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

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)											
		-15			21			35			46		
WB	DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	3.52	2.64	0.66	3.77	2.82	1.01	3.25	2.44	1.20	2.85	2.14	1.20
16	22	3.61	2.71	0.68	3.86	2.89	1.04	3.33	2.50	1.23	2.92	2.19	1.23
18	25	3.70	2.77	0.69	3.95	2.96	1.06	3.42	2.56	1.26	3.00	2.25	1.26
19	27	3.79	2.84	0.71	4.05	3.04	1.09	3.50	2.63	1.29	3.07	2.30	1.29
22	30	3.88	2.91	0.73	4.15	3.11	1.12	3.58	2.69	1.32	3.14	2.36	1.32
24	32	3.97	2.98	0.74	4.25	3.19	1.14	3.67	2.75	1.35	3.22	2.41	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	2.50	1.17	3.32	1.34	4.08	1.36	5.15	1.48
18	2.47	1.16	3.28	1.32	4.04	1.34	5.10	1.46
20	2.45	1.15	3.25	1.31	4.00	1.33	5.05	1.45
21	2.43	1.14	3.22	1.30	3.96	1.32	5.00	1.44
22	2.40	1.13	3.19	1.28	3.92	1.30	4.95	1.42
24	2.38	1.12	3.15	1.27	3.88	1.29	4.90	1.41

☑ *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) AC052FCADEH/EU + AC052FBJDEH/EU

(1) Cooling

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

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)											
		-15			21			35			46		
WB	DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	5.37	4.03	0.91	5.46	4.09	1.25	4.65	3.49	1.65	4.26	3.19	2.18
16	22	5.51	4.13	0.93	5.59	4.19	1.28	4.76	3.57	1.70	4.36	3.27	2.24
18	25	5.64	4.23	0.96	5.73	4.30	1.31	4.88	3.66	1.74	4.47	3.35	2.29
19	27	5.78	4.34	0.98	5.87	4.40	1.34	5.00	3.75	1.78	4.58	3.44	2.35
22	30	5.92	4.44	1.00	6.01	4.51	1.37	5.12	3.84	1.82	4.69	3.52	2.41
24	32	6.06	4.55	1.03	6.16	4.62	1.41	5.24	3.93	1.87	4.80	3.60	2.46

(2) Heating

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

Indoor Temperature(°C)	Outdoor Temperature (°C, DB)							
	-15		-10		7		24	
DB	TC	PI	TC	PI	TC	PI	TC	PI
16	3.86	2.30	5.07	2.54	5.71	1.96	6.38	1.82
18	3.82	2.27	5.02	2.51	5.66	1.94	6.31	1.80
20	3.78	2.25	4.97	2.49	5.60	1.92	6.25	1.78
21	3.74	2.23	4.92	2.47	5.54	1.90	6.19	1.76
22	3.70	2.21	4.87	2.44	5.49	1.88	6.13	1.74
24	3.67	2.18	4.82	2.42	5.43	1.86	6.06	1.73

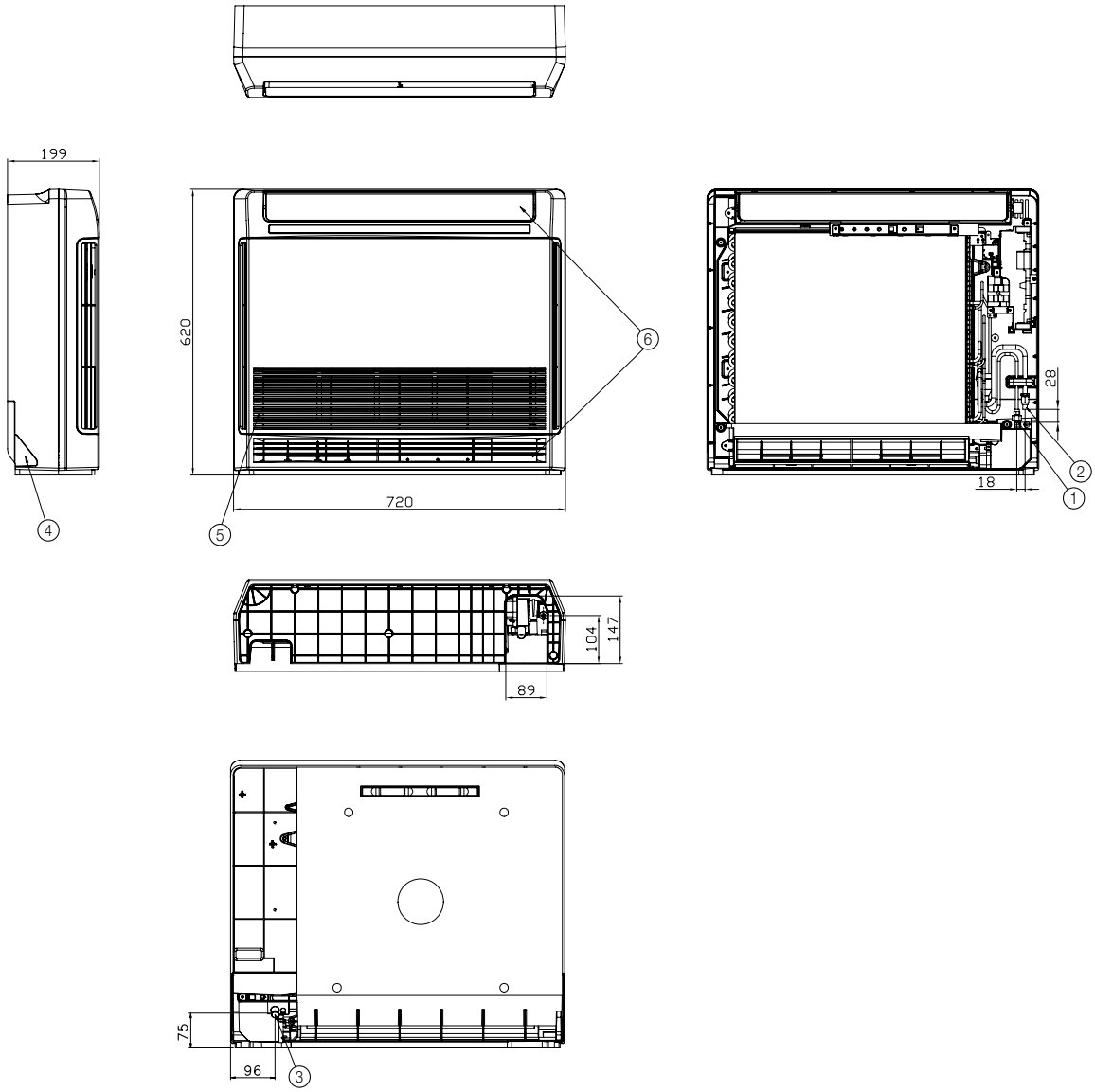
☑ *Note*

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

6-3. Dimensional drawing

1) AC026/035FBJDEH/EU

Unit:mm

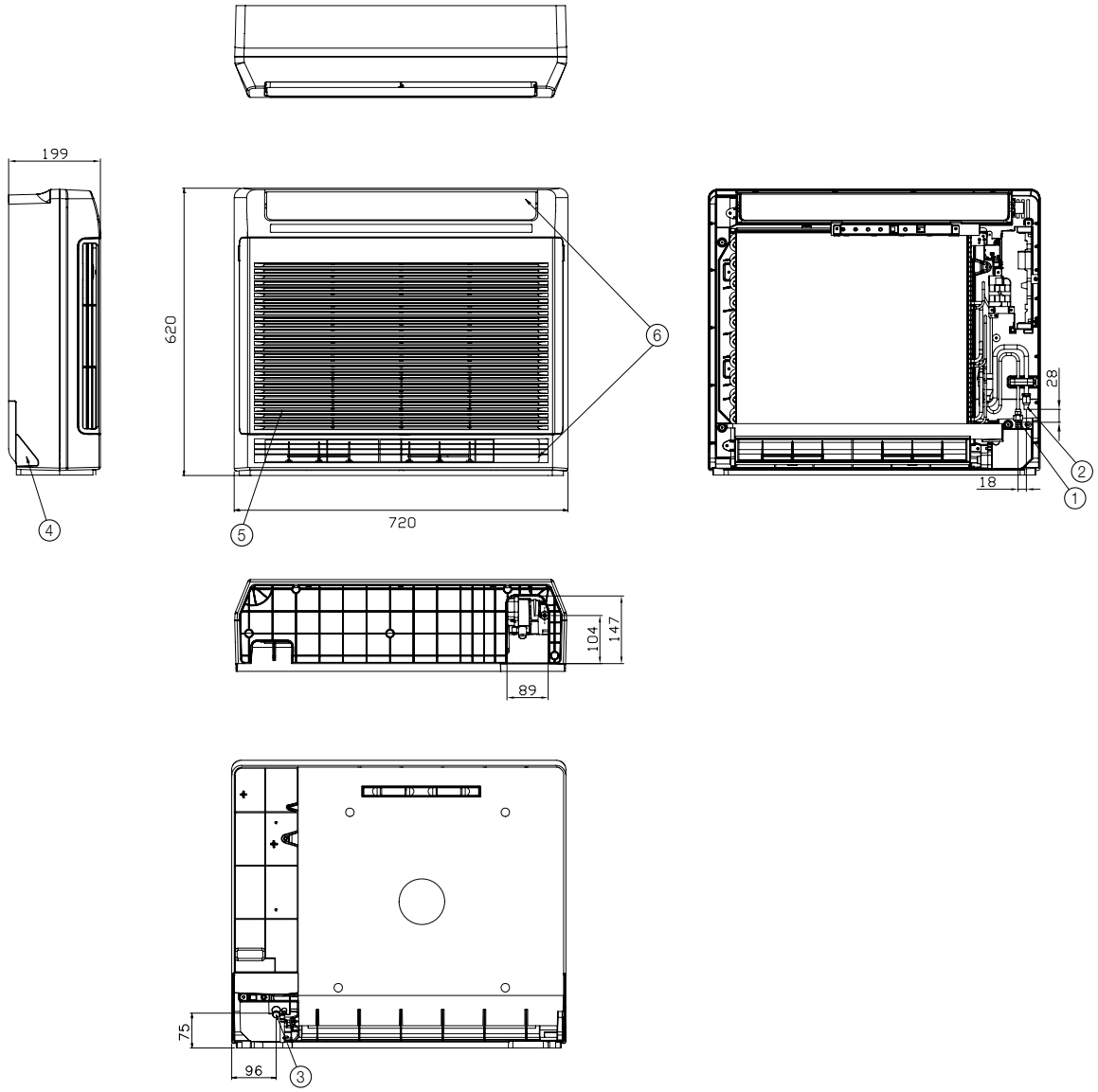


No.	Name	Description	
		2.6kW	3.5kW
①	Liquid pipe connection	Ø6.35mm (1/4") Flare	
②	Gas pipe connection	Ø9.52mm (3/8") Flare	
③	Drain pipe connection	ID18 Hose	
④	Conduit for power supply & communication wiring	-	
⑤	Air inlet grille	-	
⑥	Air outlet louver	-	

6-3. Dimensional drawing

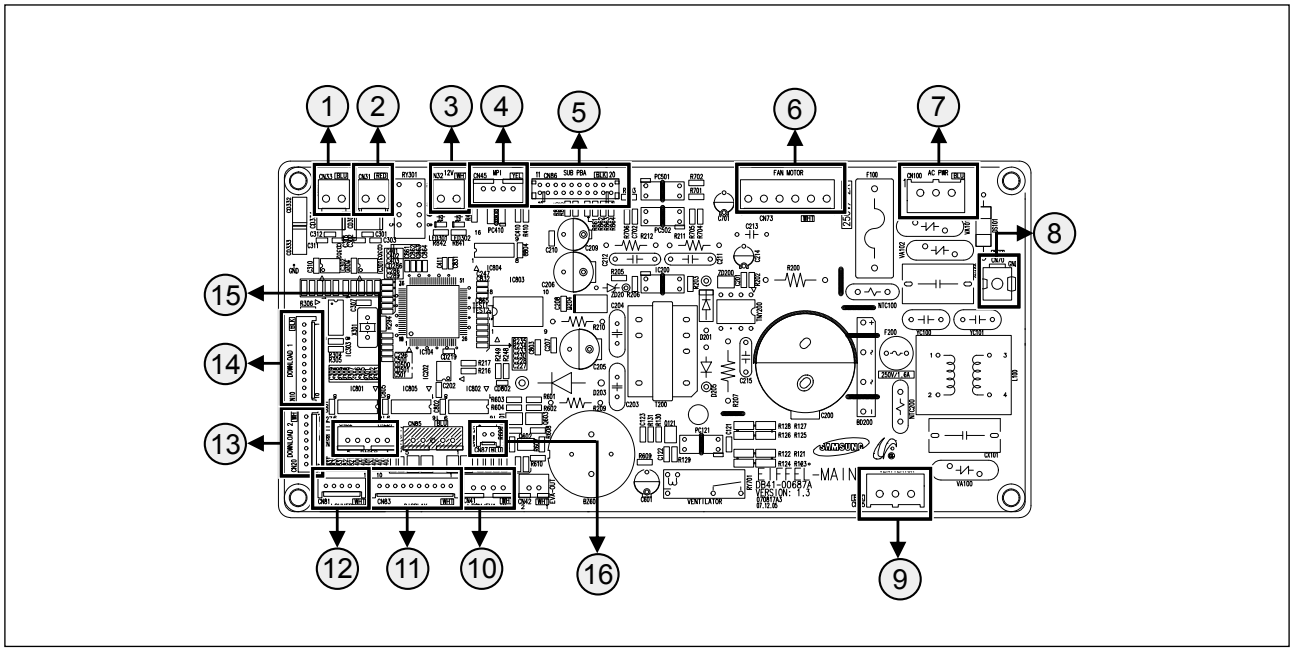
2) AC052FBJDEH/EU

Unit:mm



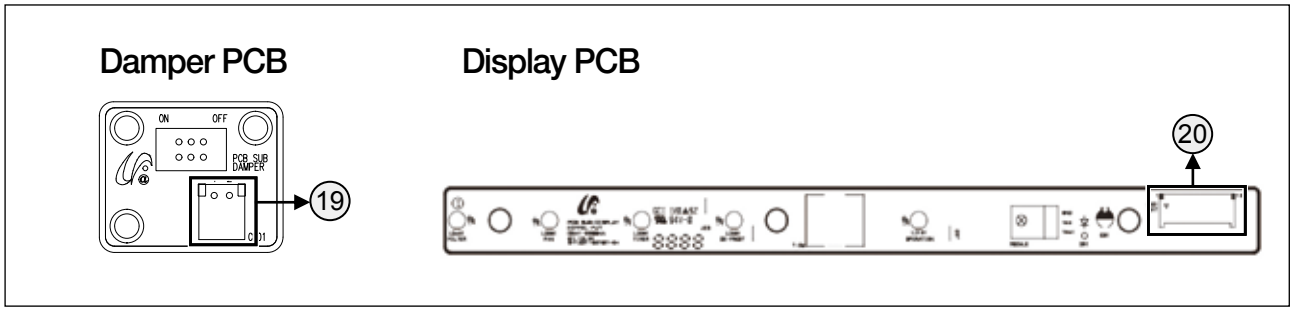
No.	Name	Description
		5.0kW
①	Liquid pipe connection	Ø6.35mm (1/4") Flare
②	Gas pipe connection	Ø12.70mm (1/2") Flare
③	Drain pipe connection	ID18 Hose
④	Conduit for power supply & communication wiring	-
⑤	Air inlet grille	-
⑥	Air outlet louver	-

6-4. PCB connector lay-out



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	CN84	Yellow	EXT-CTRL
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

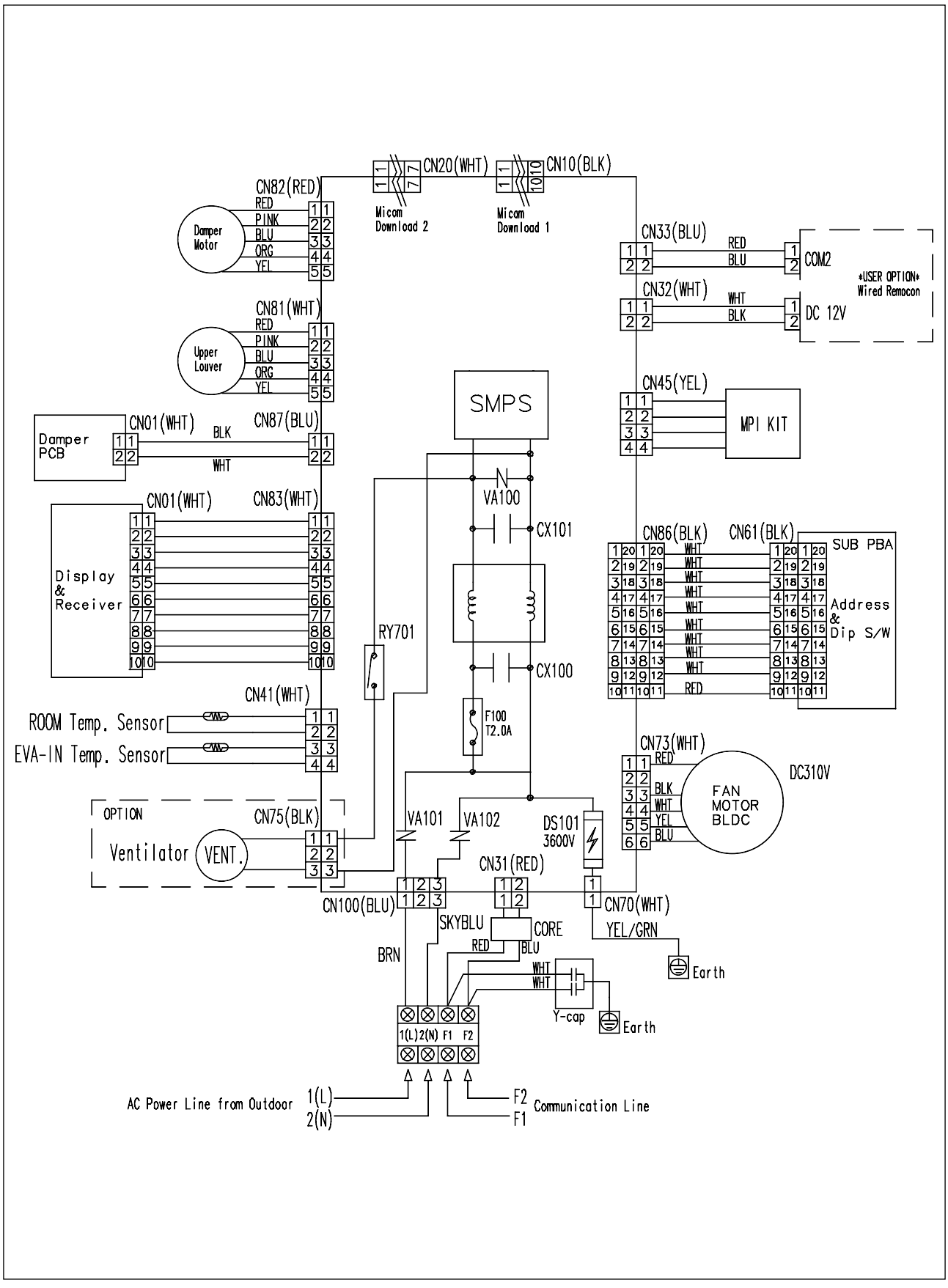
6-4. PCB connector lay-out



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

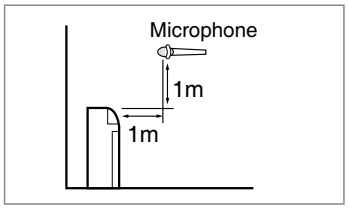
Display PCB			
No.	CN #	Color	Function
⑳	CN01	White	Panel Display

6-5. Electrical wiring diagram



6-6. Sound pressure level

1) Operation sound level



Unit : dB(A)

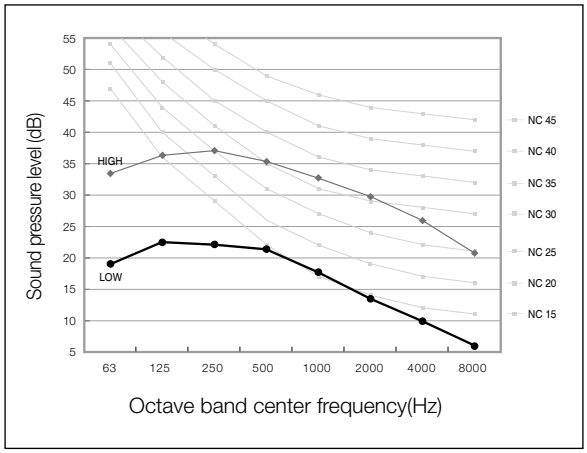
Model	High	Low
AC026FBJDEH/EU	38	23
AC035FBJDEH/EU	39	24
AC052FBJDEH/EU	44	25

Note

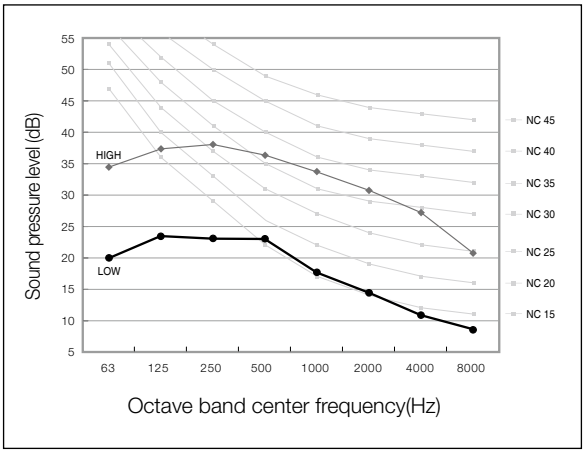
- These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- Operation sound level may differ depending on operation and ambient conditions.

2) NC curves

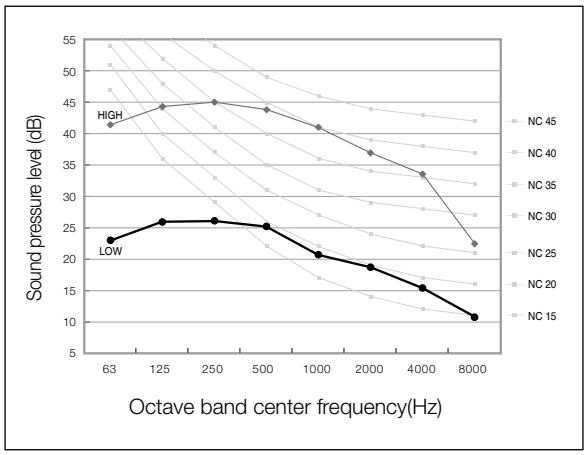
(1) AC026FBJDEH/EU



(2) AC035FBJDEH/EU



(3) AC052FBJDEH/EU

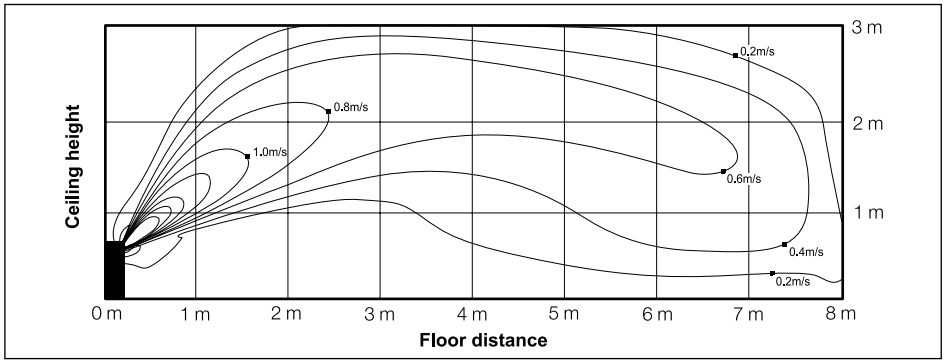


6-7. Temperature and air flow distribution

1) AC035FBJDEH/EU

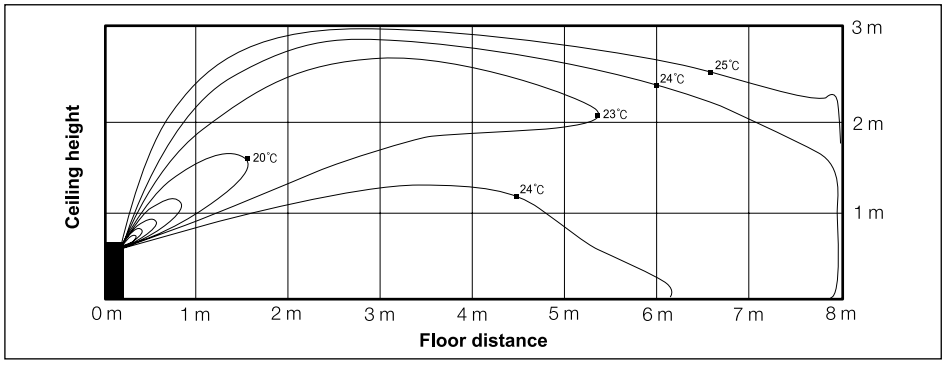
(1) Cooling air velocity distribution

◆ Discharge angle : 36°



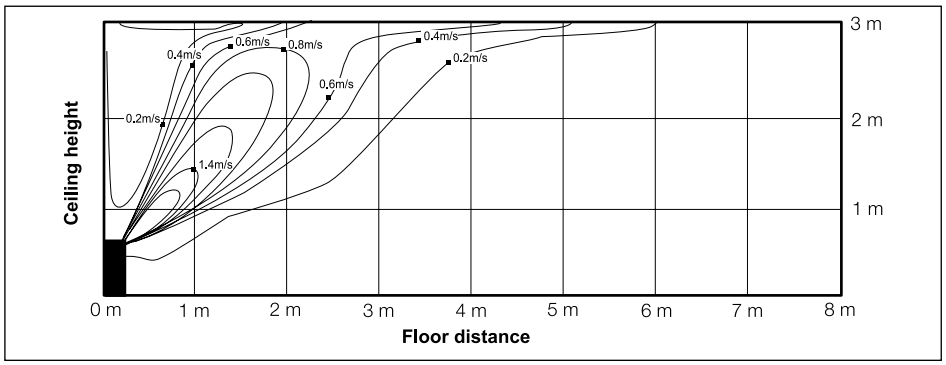
(2) Cooling temperature distribution

◆ Discharge angle : 36°



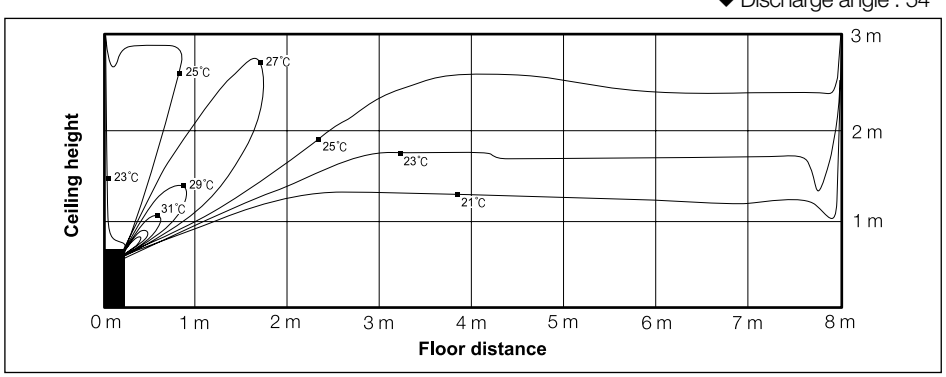
(3) Heating air velocity distribution

◆ Discharge angle : 54°

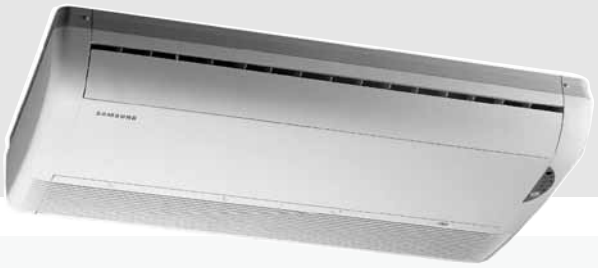


(4) Heating temperature distribution

◆ Discharge angle : 54°



Specifications



7 Ceiling

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7-1. Specifications

1) Technical specifications

Model Name		Indoor Unit				AC052FBCDEH/EU	AC071FBCDEH/EU
		Outdoor Unit				AC052FCADEH/EU	AC071FCADEH/EU
System	Mode				-	HEAT PUMP	HEAT PUMP
	Capacity	Cooling (Min / Std / Max)			kW	1.70/5.00/5.60	2.20/7.10/8.00
					Btu/h	5,800/17,100/19,100	7,500/24,200/27,300
		Heating (Min / Std / Max)			kW	1.70/6.00/7.70	1.90/8.00/9.00
					Btu/h	5,800/20,500/26,300	6,500/27,300/30,700
	Power	Power Input (Nominal)	Cooling (Min / Std / Max)		kW	0.48/1.66/1.90	0.35/2.36/4.00
			Heating (Min / Std / Max)			0.43/1.87/3.05	0.35/2.75/4.00
		Current Input (Nominal)	Cooling (Min / Std / Max)		A	2.80/7.80/9.00	2.00/10.50/21.00
			Heating (Min / Std / Max)			2.40/8.80/14.50	2.00/12.60/21.00
		MCA			A	10.80 (MCA)	20.30 (MCA)
		MFA			A	13.13	25.00
	Energy Efficiency	EER (Nominal Cooling)			-	3.01	3.01
		COP (Nominal Heating)			-	3.21	2.91
		SEER (Cooling Energy Grade)			-	SEER 5.30 (A)	SEER 5.10 (A)
		SCOP (Heating Energy Grade)			-	SCOP 3.60 (A)	SCOP 3.40 (A)
		Pdesignh			kW	3.6	4.8
	Piping Connections	Liquid Pipe			Ø, mm	6.35	6.35
					Ø, inch	1/4"	1/4"
		Gas Pipe			Ø, mm	12.70	15.88
					Ø, inch	1/2"	5/8"
		Installation Limitation	Max. Length (Outdoor to indoor)		m	30(35)	50(55)
			Max. Height (Between ID/OD)		m	20(20)	30(30)
	Field Wiring	Power Source Wire			-	2.0	2.5 ~ 4.0
		Transmission Cable			-	0.75 ~ 1.25	0.75 ~ 1.25
	Refrigerant	Type			-	R410A	R410A
		Control Method			-	-	-
		Factory Charging			kg	1.40	1.80
Indoor Unit	Power Supply				Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50
	Fan	Type			-	Turbo Fan/BLDC	Turbo Fan/BLDC
		Motor	Output		W	35.00	35.00
		Number of Unit			EA	1.00	1.00
		Air Flow Rate	High / Mid / Low		CMM	13.50/12.50/11.50	16.50/15.00/14.00
					l/s	225.00/208.33/191.67	275.00/250.00/233.33
		External Static Pressure	Min / Std / Max		mmAq	-	-
					Pa	-	-
	Drain	Drain Pipe			Ø,mm	ID 18 Hose	ID 18 Hose
	Sound	Sound Pressure	High / Mid / Low		dB(A)	41.00/39.0/37.0	46.00/44.0/42.0
		Sound Power			dB(A)	60	64
	External Dimension	Net Weight			kg	22.00	22.00
		Shipping Weight			kg	26.00	26.00
		Net Dimensions (WxHxD)			mm	1000 x 200 x 650	1000 x 200 x 650
		Shipping Dimensions (WxHxD)			mm	1080 x 300 x 730	1080 x 300 x 730
	Panel Size	Panel model			-	-	-
		Panel Net Weight			kg	-	-
		Shipping Weight			kg	-	-
		Net Dimensions (W×H×D)			mm	-	-
		Shipping Dimensions (W×H×D)			mm	-	-
	Additional Accessories	Drain pump	Drain pump		-	-	-
			Max. Lifting Height / Displacement		mm/liter/h	-	-
		Air 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			-	UG4T150FUDJQDO	UG4T200FUAE4
		Output			kW	1.37	1.79
		Oil	Type		-	POE	POE
			Initial Charge		cc	650.00	650.00
	Fan	Air Flow Rate	Cooling		CMM	33.00	52.00
					l/s	550.00	866.67
	Sound	Sound Pressure	Cooling / Heating		dB(A)	49.0 / 49.0	49.0 / 51.0
		Sound Power			dB(A)	64	66
	External Dimension	Net Weight			kg	38.50	55.00
		Shipping Weight			kg	42.50	59.00
		Net Dimensions (WxHxD)			mm	790 x 548 x 285	880 x 798 x 310
		Shipping Dimensions (WxHxD)			mm	926 x 655 x 382	1023 x 891 x 413
	Operating Temp. Range	Cooling			°C	-10~46	-15~50
		Heating			°C	-15~24	-20~24

7-2. Capacity tables

1) AC052FCADEH/EU+AC052FBCDEH/EU

(1) Cooling

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

Indoor Temperature(°C)													
		-10			21			35			46		
WB	DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	5.15	3.86	1.40	5.20	3.90	1.39	4.65	3.49	1.54	4.00	3.00	2.14
16	22	5.28	3.96	1.44	5.32	3.99	1.42	4.76	3.57	1.58	4.10	3.07	2.19
18	25	5.41	4.06	1.47	5.46	4.09	1.45	4.88	3.66	1.62	4.20	3.15	2.24
19	27	5.54	4.16	1.51	5.59	4.19	1.49	5.00	3.75	1.66	4.30	3.23	2.30
22	30	5.67	4.25	1.55	5.72	4.29	1.53	5.12	3.84	1.70	4.40	3.30	2.36
24	32	5.81	4.36	1.58	5.86	4.40	1.56	5.24	3.93	1.74	4.51	3.38	2.41

(2) Heating

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

Indoor Temperature(°C)	Outdoor Temperature (°C, DB)							
	-15		-10		7		24	
DB	TC	PI	TC	PI	TC	PI	TC	PI
16	3.95	2.14	4.90	2.25	6.12	1.91	7.75	1.88
18	3.91	2.12	4.85	2.23	6.06	1.89	7.68	1.86
20	3.87	2.10	4.80	2.21	6.00	1.87	7.60	1.84
21	3.83	2.08	4.75	2.19	5.94	1.85	7.52	1.82
22	3.79	2.06	4.70	2.17	5.88	1.83	7.45	1.80
24	3.76	2.04	4.66	2.14	5.82	1.81	7.37	1.79

2) AC071FCADEH/EU+AC071FBCDEH/EU

(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	6.83	5.47	1.16	6.70	5.36	1.58	6.60	5.28	2.19	5.37	4.30	2.48	4.76	3.81	2.58
16	22	7.00	5.60	1.19	6.87	5.49	1.62	6.76	5.41	2.25	5.51	4.40	2.54	4.88	3.90	2.65
18	25	7.17	5.74	1.22	7.04	5.63	1.66	6.93	5.54	2.30	5.64	4.51	2.61	5.00	4.00	2.71
19	27	7.35	5.88	1.25	7.21	5.77	1.70	7.10	5.68	2.36	5.78	4.62	2.67	5.12	4.10	2.78
22	30	7.53	6.02	1.28	7.38	5.91	1.74	7.27	5.82	2.42	5.92	4.73	2.73	5.24	4.19	2.85
24	32	7.71	6.17	1.31	7.56	6.05	1.78	7.44	5.96	2.47	6.06	4.85	2.80	5.37	4.29	2.92

(2) Heating

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

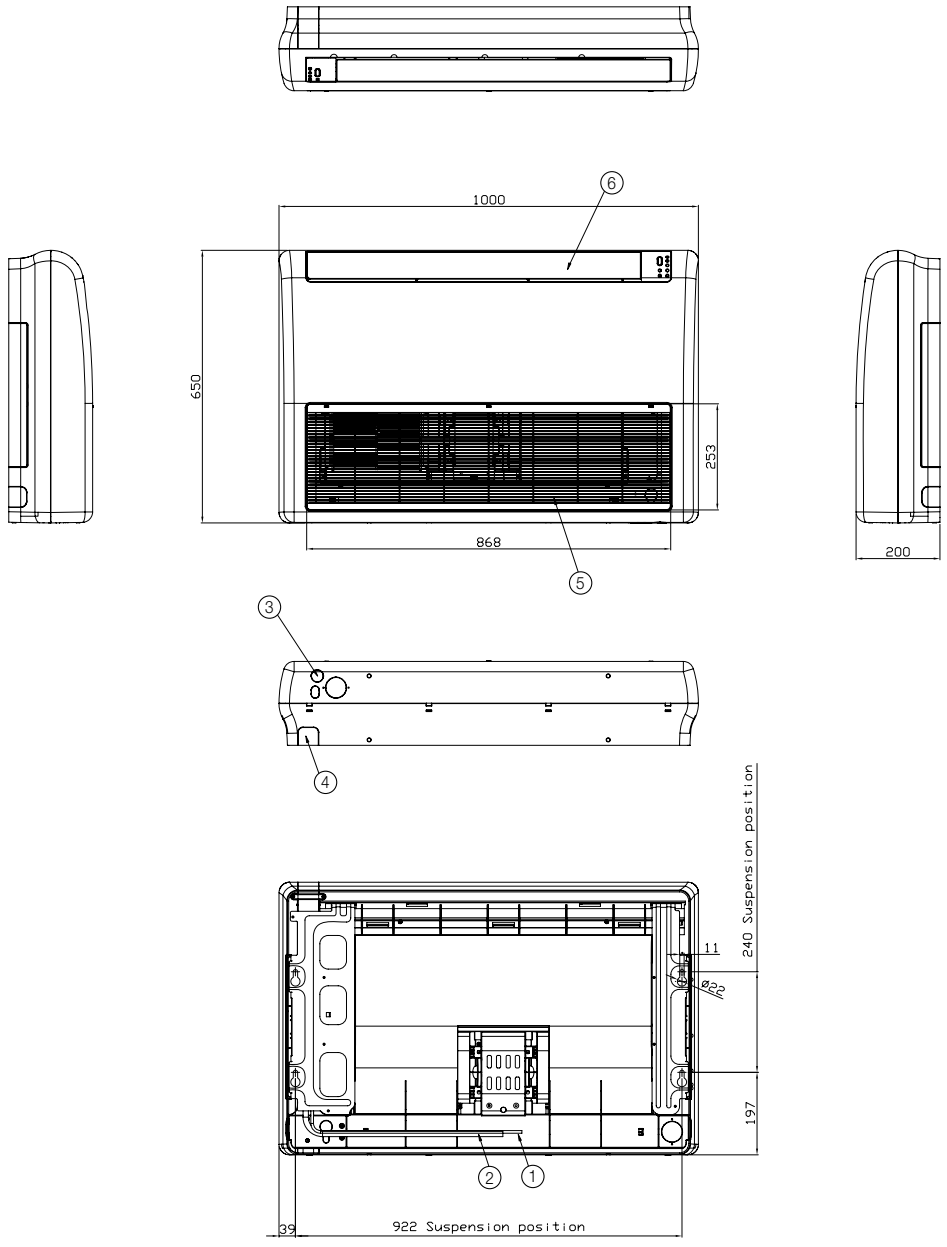
Indoor Temperature(°C)	Outdoor Temperature (°C, DB)							
	-20		-10		7		24	
DB	TC	PI	TC	PI	TC	PI	TC	PI
16	5.34	3.11	6.88	2.93	8.16	2.81	8.61	2.90
18	5.28	3.08	6.81	2.90	8.08	2.78	8.52	2.87
20	5.23	3.05	6.74	2.87	8.00	2.75	8.44	2.84
21	5.18	3.02	6.67	2.84	7.92	2.72	8.36	2.81
22	5.13	2.99	6.61	2.81	7.84	2.70	8.27	2.78
24	5.07	2.96	6.54	2.78	7.76	2.67	8.19	2.76

☑ ***Note***

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

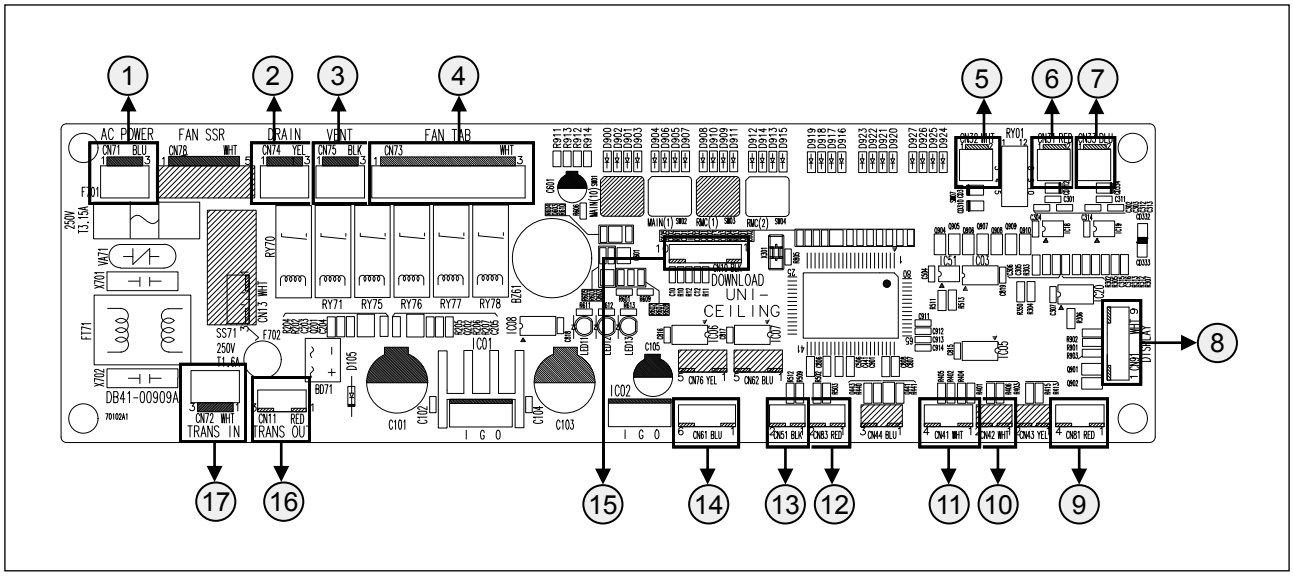
7-3. Dimensional drawing

Unit:mm



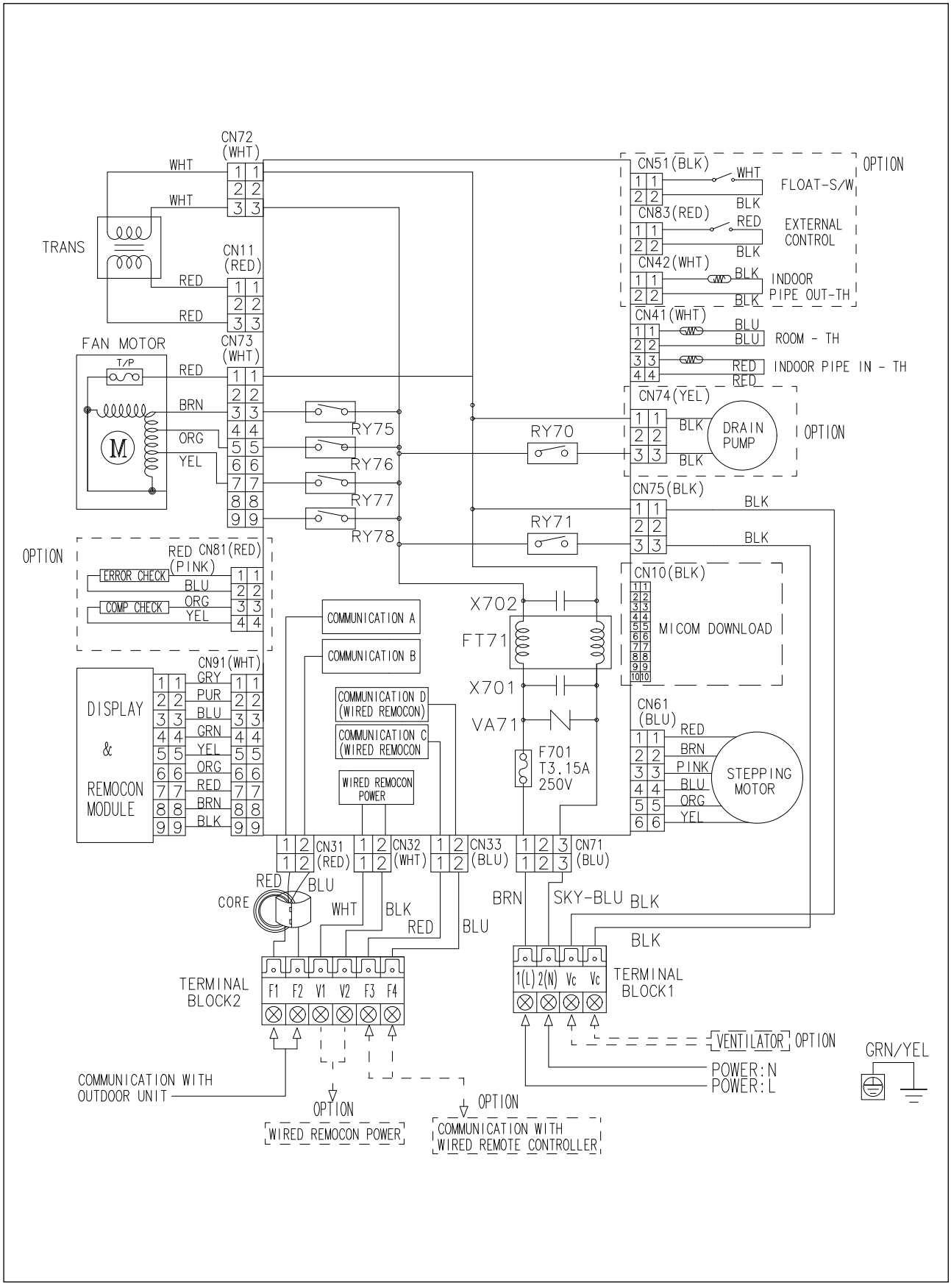
No.	Name	Description	
		5.0kW	7.1kW
①	Liquid pipe connection	Ø6.35mm (1/4") Flare	
②	Gas pipe connection	Ø12.70mm (1/2") Flare	Ø15.88mm (5/8") Flare
③	Drain pipe connection	ID18 Hose	
④	Conduit for power supply & communication wiring	-	
⑤	Air inlet grille	-	
⑥	Air outlet louver	-	

7-4. PCB connector lay-out



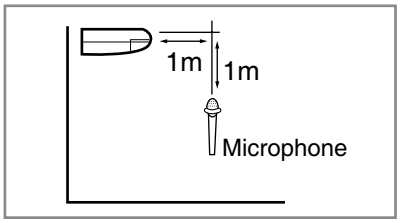
No.	CN #	Color	Function
①	CN71	Blue	AC 230V Input
②	CN74	Yellow	Drain Pump
③	CN75	Black	Ventilator
④	CN73	White	Fan Motor
⑤	CN32	White	DC12V for Wired Remote Controller
⑥	CN31	Red	Communication with Outdoor Units (COM1)
⑦	CN33	Blue	Communication with Wired Remote Controller (COM2)
⑧	CN91	White	Display
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)

7-5. Electrical wiring diagram



7-6. Sound pressure level

1) Operation sound level



Unit : dB(A)

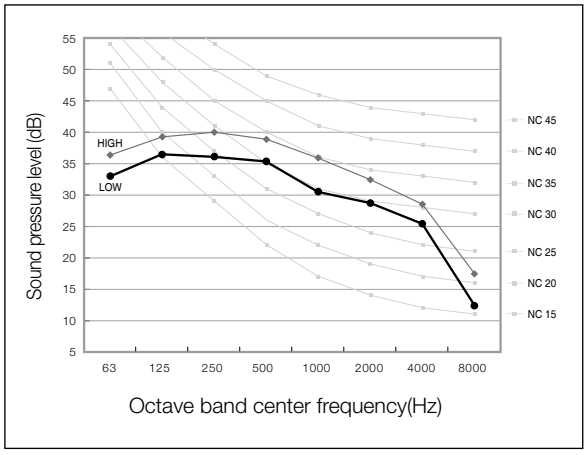
Model	High	Low
AC052FBCDEH/EU	41	37
AC071FBCDEH/EU	46	42

Note

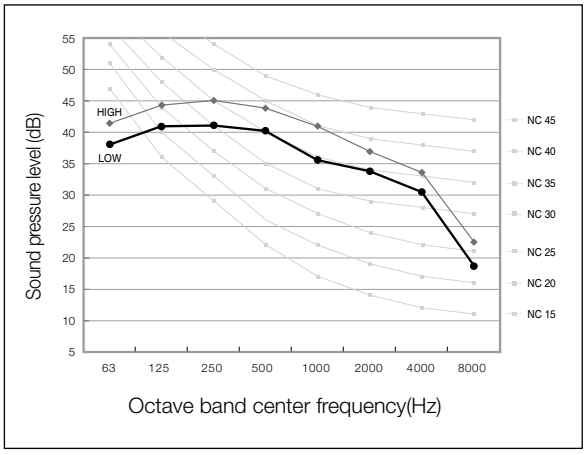
- ◆ These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- ◆ Operation sound level may differ depending on operation and ambient conditions.

2) NC curves

(1) AC052FBCDEH/EU



(2) AC071FBCDEH/EU

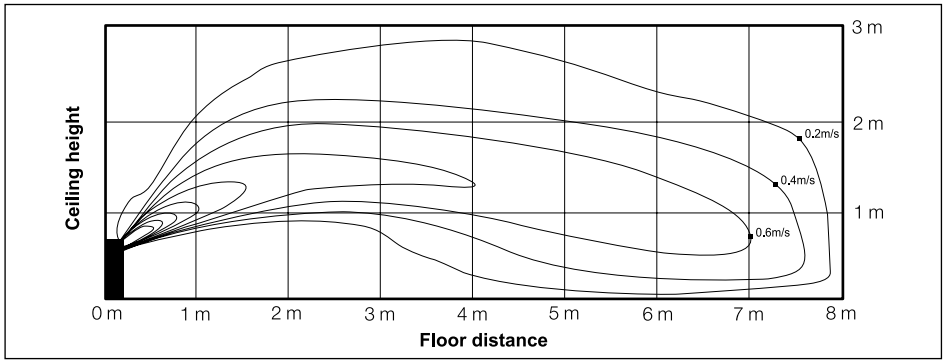


7-7. Temperature and air flow distribution

1) AC071FBCDEH/EU (Floor installation)

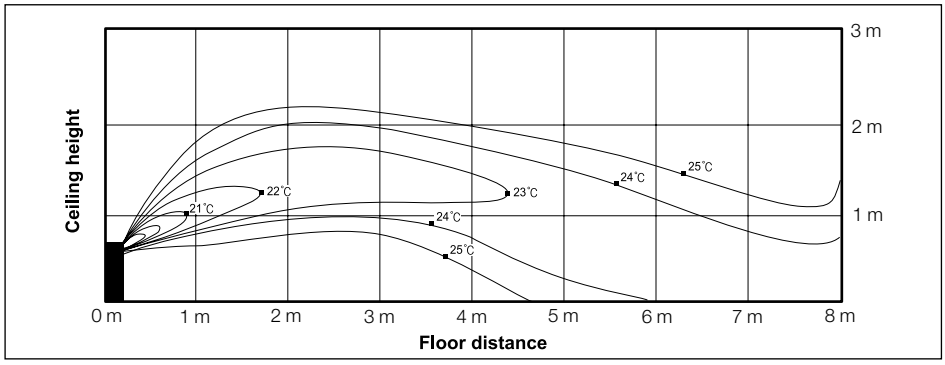
(1) Cooling air velocity distribution

◆ Discharge angle : 36°



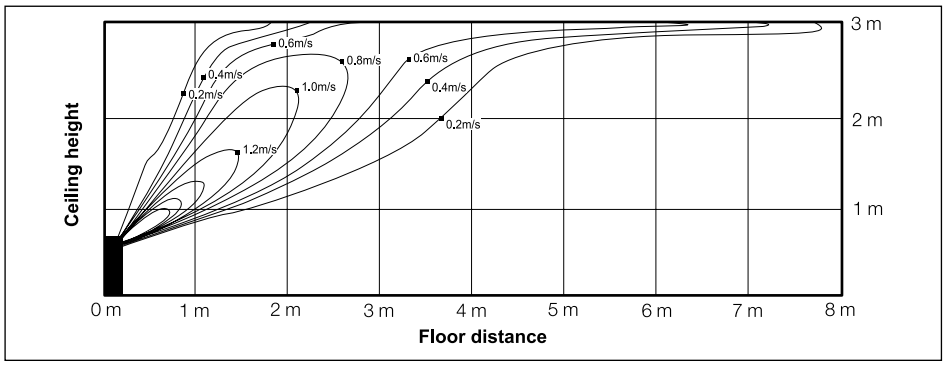
(2) Cooling temperature distribution

◆ Discharge angle : 36°



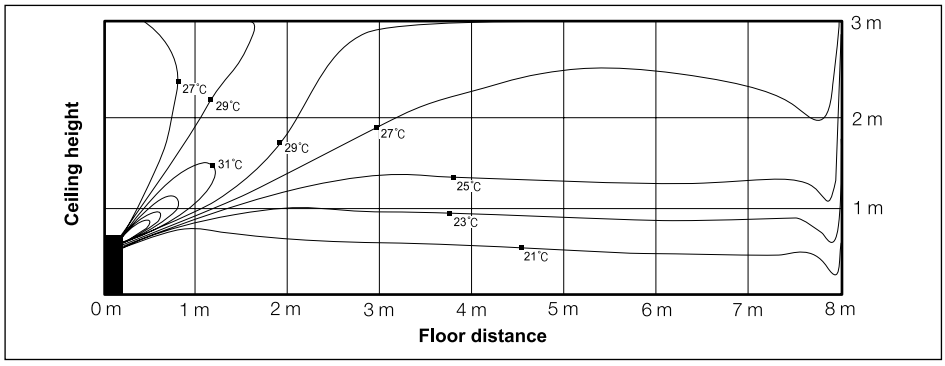
(3) Heating air velocity distribution

◆ Discharge angle : 54°



(4) Heating temperature distribution

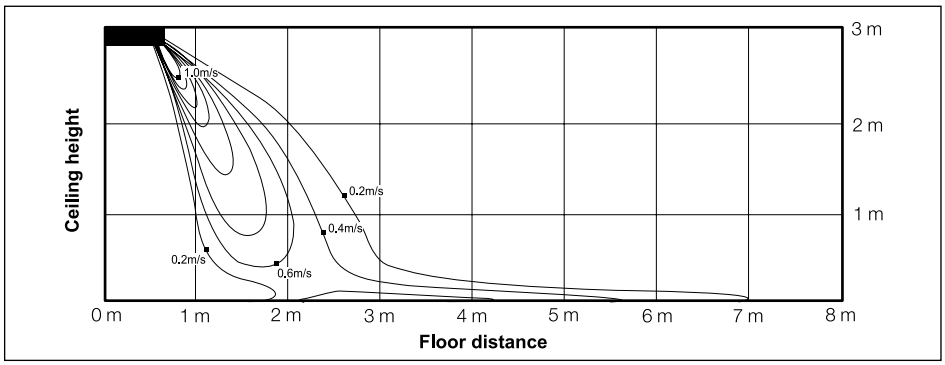
◆ Discharge angle : 54°



2) AC071FBCDEH/EU (Ceiling installation)

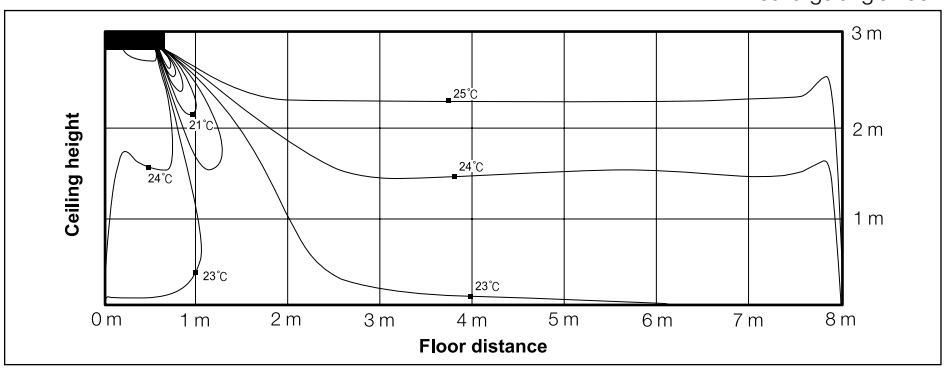
(1) Cooling air velocity distribution

◆ Discharge angle : 36°



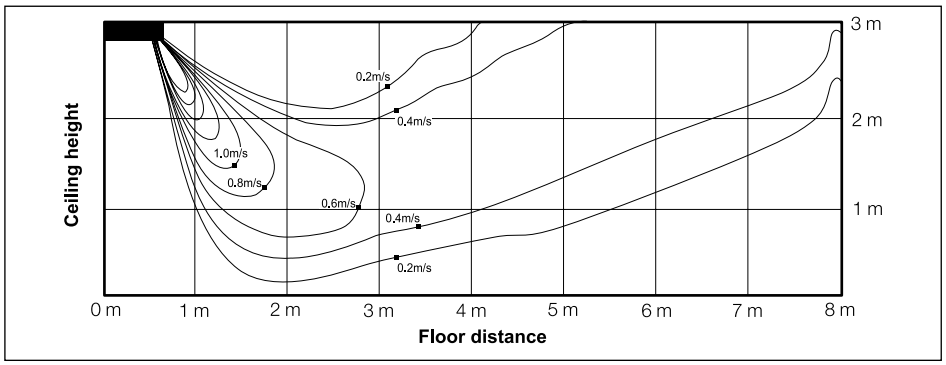
(2) Cooling temperature distribution

◆ Discharge angle : 36°



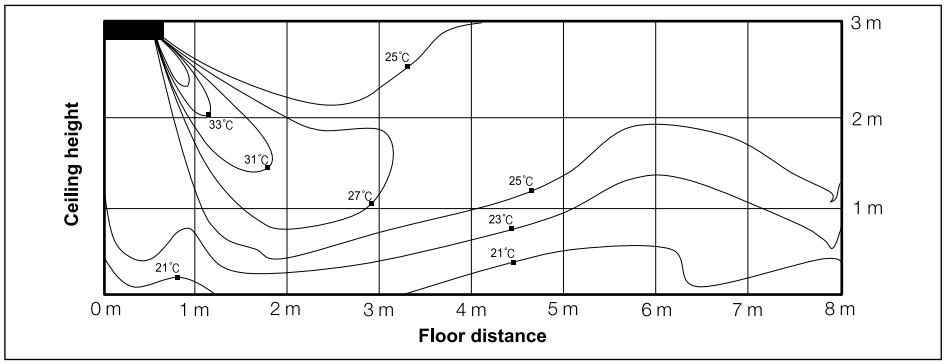
(3) Heating air velocity distribution

◆ Discharge angle : 54°



(4) Heating temperature distribution

◆ Discharge angle : 54°



Specifications



8 Maldives

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8-1. Specifications

1) Technical specifications

Model Name		Indoor Unit			AC026FBRDEH/EU	AC035FBRDEH/EU	AC052FBRDEH/EU	AC071FBRDEH/EU
		Outdoor Unit			AC026FCADEH/EU	AC035FCADEH/EU	AC052FCADEH/EU	AC060FCADEH/EU
System	Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP
	Capacity	Cooling (Min / Std / Max)		kW	1.20/2.60/3.50	1.20/3.50/3.70	1.90/5.00/6.05	2.20/7.10/8.00
				Btu/h	4,100 / 8,900 / 11,900	4,100 / 11,900 / 13,300	6,500/17,100/20,600	7,500/24,200/27,300
		Heating (Min / Std / Max)		kW	0.95/3.50/4.20	1.04/4.00/4.40	1.50/6.00/6.25	1.90/8.00/9.00
				Btu/h	3,200 / 11,900 / 14,300	3,500/13,600/15,000	5,100/20,500/21,300	6,500/27,300/30,700
	Power	Power Input (Nominal)	Cooling (Min / Std / Max)	kW	0.245/0.65/1.50	0.25/1.09/1.50	0.40/1.61/2.20	0.35/2.36/4.00
			Heating (Min / Std / Max)		0.20/0.97/1.15	0.21/1.17/1.40	0.34/1.76/3.15	0.35/2.85/4.00
		Current Input (Nominal)	Cooling (Min / Std / Max)	A	1.60/3.40/7.00	1.60/5.10/7.00	2.60/7.20/9.80	2.00/10.50/21.00
			Heating (Min / Std / Max)		1.30/5.00/5.40	1.30/5.80/6.50	2.30/8.30/14.00	2.00/13.00/21.00
		MCA		A	10.30 (MCA)	10.30 (MCA)	10.80 (MCA)	20.30 (MCA)
		MFA		A	12.50	12.50	13.13	25.00
	Energy Efficiency	EER (Nominal Cooling)		-	4.00	3.21	3.11	3.01
		COP (Nominal Heating)		-	3.61	3.42	3.41	2.81
		SEER (Cooling Energy Grade)		-	Energy Grade (C) 5.9(A+)	Energy Grade (C) 5.6(A+)	SEER 6.20 (A++)	SEER 6.00 (A+)
		SCOP (Heating Energy Grade)		-	Energy Grade (H) 3.9(A)	Energy Grade (H) 3.9(A)	SCOP 3.80 (A)	SCOP 3.80 (A)
		Pdesignh		kW	2.4	2.5	3.3	5.0
	Piping Connections	Liquid Pipe		Ø, mm	6.35	6.35	6.35	6.35
				Ø, inch	1/4"	1/4"	1/4"	1/4"
		Gas Pipe		Ø, mm	9.52	9.52	12.70	15.88
				Ø, inch	3/8"	3/8"	1/2"	5/8"
		Installation Limitation	Max. Length (Outdoor to indoor)	m	20(25)	20(25)	30(35)	50(55)
			Max. Height (Between ID/OD)	m	15(15)	15(15)	20(20)	30(30)
	Field Wiring	Power Source Wire		-	1.5 ~ 2.5	1.5 ~ 2.5	2.0	2.5 ~ 4.0
		Transmission Cable		-	0.75 ~ 1.25	0.75 ~ 1.25	0.75 ~ 1.25	0.75 ~ 1.25
	Refrigerant	Type		-	R410A	R410A	R410A	R410A
		Control Method		-	-	-	-	-
		Factory Charging		kg	0.95	0.95	1.40	1.80
Indoor Unit	Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50
	Fan	Type		-	Crossflow Fan	Crossflow Fan	Crossflow Fan	Crossflow Fan
		Motor	Output	W	35.00	35.00	27.00	27.00
		Number of Unit		EA	1.00	1.00	1.00	1.00
		Air Flow Rate	High / Mid / Low	CMM	10.50/9.50/8.00	8.00/7.00/6.00	15.00/13.20/11.50	15.00/13.40/11.80
				l/s	175.00 / 158.33 / 133.33	133.33 / 116.67 / 100.00	250.00/220.00/191.67	250.00/223.33/196.67
		External Static Pressure	Min / Std / Max	mmAq	-	-	-	-
				Pa	-	-	-	-
	Drain	Drain Pipe		Ø,mm	ID 18 Hose	ID 18 Hose	ID 18 Hose	ID 18 Hose
	Sound	Sound Pressure	High / Mid / Low	dB(A)	35.0/31.0/24.0	37.0/32.0/25.0	40.00/35.0/30.0	44.00/37.0/31.0
		Sound Power		dB(A)	53	55	60	63
	External Dimension	Net Weight		kg	8.2	8.2	11.50	11.50
		Shipping Weight		kg	10.2	10.2	14.50	14.50
		Net Dimensions (WxHxD)		mm	820 x 285 x 205	820 x 285 x 205	1065 x 298 x 230	1065 x 298 x 230
		Shipping Dimensions (WxHxD)		mm	892 x 355 x 263	892 x 355 x 263	1137 x 377 x 299	1137 x 377 x 299
	Panel Size	Panel model		-	-	-	-	-
		Panel Net Weight		kg	-	-	-	-
		Shipping Weight		kg	-	-	-	-
		Net Dimensions (W×H×D)		mm	-	-	-	-
		Shipping Dimensions (W×H×D)		mm	-	-	-	-
	Additional Accessories	Drain pump	Drain pump	-	-	-	-	-
			Max. Lifting Height / Displacement	mm/liter/h	-	-	-	-
		Air 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		-	UG4C090LUDJR	UG4C090LUDJR	UG4T150FUDJQ	UG4T200FUAE4
		Output		kW	0.86	0.86	1.37	1.79
		Oil	Type	-	POE	POE	POE	POE
			Initial Charge	cc	320.00	320.00	650.00	650.00
	Fan	Air Flow Rate	Cooling	CMM	29.00	30.00	33.00	52.00
				l/s	483.33	500.00	550.00	866.67
	Sound	Sound Pressure	Cooling / Heating	dB(A)	47.0 / 47.0	47.0 / 47.0	49.0 / 49.0	49.0 / 51.0
		Sound Power		dB(A)	60	62	64	67
	External Dimension	Net Weight		kg	33.00	33.00	38.50	55.00
		Shipping Weight		kg	37.00	37.00	42.50	59.00
		Net Dimensions (WxHxD)		mm	790 x 548 x 285	790 x 548 x 285	790 x 548 x 285	880 x 798 x 310
		Shipping Dimensions (WxHxD)		mm	926 x 655 x 382	926 x 655 x 382	926 x 655 x 382	1023 x 891 x 413
	Operating Temp. Range	Cooling		°C	-10~46	-10~46	-10~46	-15~50
		Heating		°C	-15~24	-15~24	-15~24	-20~24

8-2. Capacity tables

1) AC026FCADEH/EU+AC026FBRDEH/EU

(1) Cooling

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

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)											
		-15			21			35			46		
WB	DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	2.80	2.10	0.39	2.58	1.94	0.48	2.42	1.81	0.60	2.28	1.71	1.20
16	22	2.87	2.15	0.40	2.65	1.99	0.50	2.48	1.86	0.62	2.33	1.75	1.23
18	25	2.94	2.20	0.41	2.71	2.03	0.51	2.54	1.90	0.63	2.39	1.79	1.26
19	27	3.01	2.26	0.42	2.78	2.09	0.52	2.60	1.95	0.65	2.45	1.84	1.29
22	30	3.08	2.31	0.43	2.85	2.14	0.53	2.66	2.00	0.67	2.51	1.88	1.32
24	32	3.16	2.37	0.44	2.92	2.19	0.55	2.73	2.04	0.68	2.57	1.93	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	1.22	2.39	1.14	3.57	0.99	4.28	0.89
18	1.70	1.21	2.36	1.13	3.54	0.98	4.24	0.88
20	1.68	1.20	2.34	1.12	3.50	0.97	4.20	0.87
21	1.66	1.19	2.32	1.11	3.47	0.96	4.16	0.86
22	1.65	1.18	2.29	1.10	3.43	0.95	4.12	0.85
24	1.63	1.16	2.27	1.09	3.40	0.94	4.08	0.84

2) AC035FCADEH/EU+AC035FBRDEH/EU

(1) Cooling

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

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)											
		-15			21			35			46		
WB	DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	3.60	2.70	1.00	3.35	2.51	1.10	3.25	2.44	1.01	2.79	2.09	1.25
16	22	3.69	2.76	1.03	3.43	2.57	1.12	3.33	2.50	1.04	2.86	2.14	1.28
18	25	3.78	2.83	1.05	3.51	2.64	1.15	3.42	2.56	1.06	2.93	2.20	1.31
19	27	3.87	2.90	1.08	3.60	2.70	1.18	3.50	2.63	1.09	3.00	2.25	1.34
22	30	3.96	2.97	1.11	3.69	2.76	1.21	3.58	2.69	1.12	3.07	2.30	1.37
24	32	4.06	3.04	1.13	3.77	2.83	1.24	3.67	2.75	1.14	3.15	2.36	1.41

(2) Heating

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

Indoor Temperature(°C)	Outdoor Temperature (°C, DB)							
	-15		-10		7		24	
DB	TC	PI	TC	PI	TC	PI	TC	PI
16	2.19	1.14	3.01	1.28	4.08	1.19	4.88	1.35
18	2.17	1.13	2.98	1.26	4.04	1.18	4.83	1.33
20	2.15	1.12	2.95	1.25	4.00	1.17	4.78	1.32
21	2.13	1.11	2.92	1.24	3.96	1.16	4.73	1.31
22	2.11	1.10	2.89	1.23	3.92	1.15	4.68	1.29
24	2.09	1.09	2.86	1.21	3.88	1.14	4.64	1.28

☑ *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) AC052FCADEH/EU+AC052FBRDEH/EU

(1) Cooling

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

Indoor Temperature(°C)		Outdoor Temperature (°C, DB)											
		-15			21			35			46		
WB	DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	5.24	3.93	1.16	5.39	4.04	1.21	4.65	3.49	1.50	3.26	2.45	1.72
16	22	5.37	4.03	1.19	5.52	4.14	1.24	4.76	3.57	1.53	3.34	2.51	1.76
18	25	5.50	4.13	1.22	5.66	4.25	1.27	4.88	3.66	1.57	3.43	2.57	1.81
19	27	5.64	4.23	1.25	5.80	4.35	1.30	5.00	3.75	1.61	3.51	2.63	1.85
22	30	5.78	4.33	1.28	5.94	4.45	1.33	5.12	3.84	1.65	3.59	2.70	1.89
24	32	5.91	4.44	1.31	6.08	4.56	1.36	5.24	3.93	1.69	3.68	2.76	1.94

(2) Heating

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

Indoor Temperature(°C)	Outdoor Temperature (°C, DB)							
	-15		-10		7		24	
DB	TC	PI	TC	PI	TC	PI	TC	PI
16	4.20	2.30	4.71	2.29	6.12	1.80	7.42	1.86
18	4.16	2.27	4.67	2.26	6.06	1.78	7.34	1.84
20	4.12	2.25	4.62	2.24	6.00	1.76	7.27	1.82
21	4.08	2.23	4.57	2.22	5.94	1.74	7.20	1.80
22	4.04	2.21	4.53	2.20	5.88	1.72	7.13	1.78
24	4.00	2.18	4.48	2.17	5.82	1.71	7.05	1.77

4) AC060FCADEH/EU + AC071FBRDEH/EU

(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	7.86	6.28	1.29	8.08	6.46	2.22	6.60	5.28	2.19	5.71	4.57	2.42	4.88	3.90	2.58
16	22	8.05	6.44	1.32	8.28	6.62	2.28	6.76	5.41	2.25	5.85	4.68	2.48	5.00	4.00	2.65
18	25	8.25	6.60	1.36	8.48	6.79	2.33	6.93	5.54	2.30	5.99	4.79	2.54	5.12	4.10	2.71
19	27	8.45	6.76	1.39	8.69	6.95	2.39	7.10	5.68	2.36	6.14	4.91	2.60	5.25	4.20	2.78
22	30	8.65	6.92	1.42	8.90	7.12	2.45	7.27	5.82	2.42	6.29	5.03	2.66	5.38	4.30	2.85
24	32	8.86	7.09	1.46	9.11	7.29	2.51	7.44	5.96	2.47	6.44	5.15	2.73	5.51	4.40	2.92

(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	5.21	3.04	6.23	3.34	8.16	2.91	8.96	2.97
18	5.16	3.01	6.17	3.30	8.08	2.88	8.87	2.94
20	5.11	2.98	6.11	3.27	8.00	2.85	8.78	2.91
21	5.06	2.95	6.05	3.24	7.92	2.82	8.69	2.88
22	5.01	2.92	5.99	3.20	7.84	2.79	8.61	2.85
24	4.96	2.89	5.93	3.17	7.76	2.77	8.52	2.82

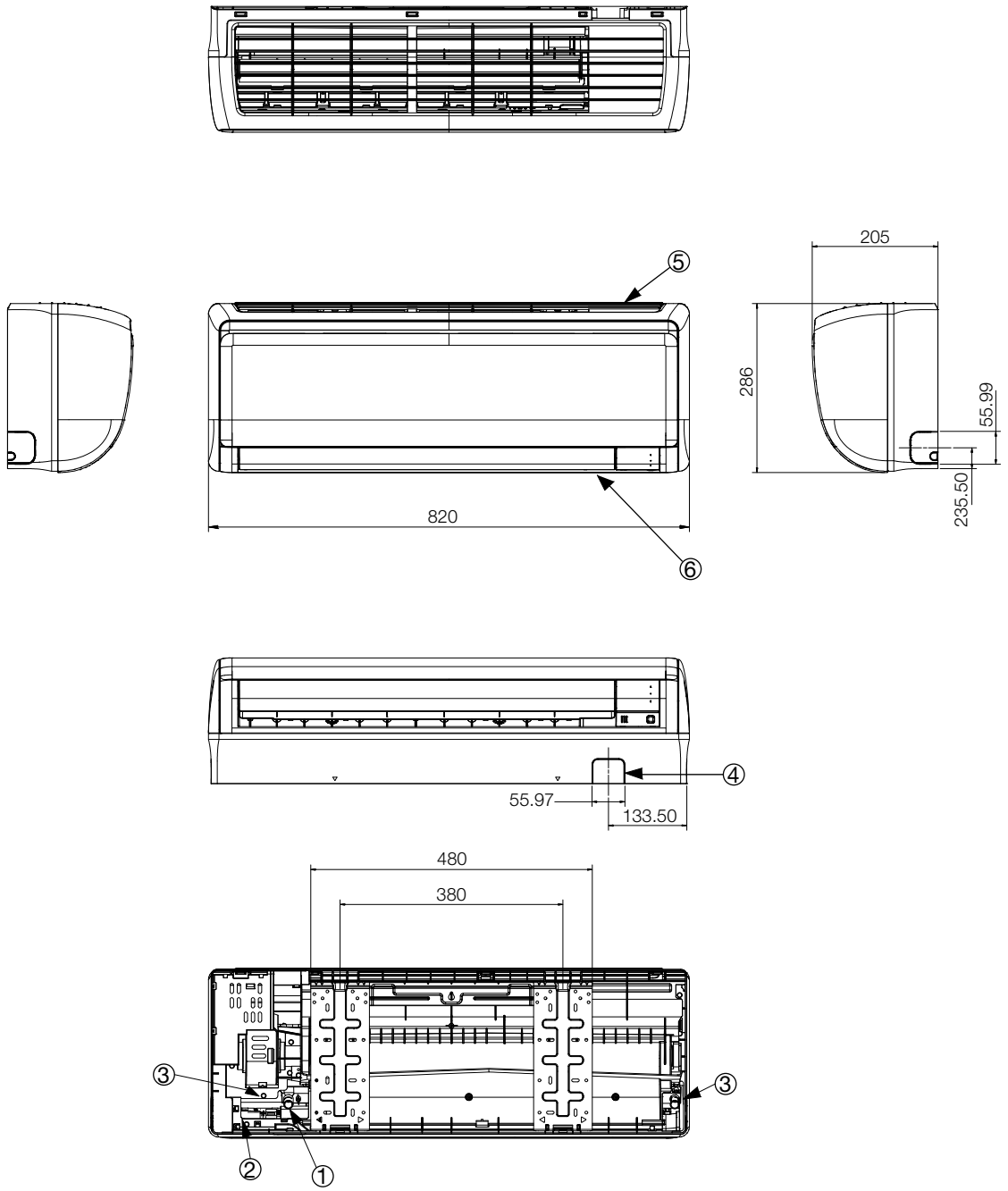
☑ *Note*

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

8-3. Dimensional drawing

1) AC026/035FBRDEH/EU

Unit:mm

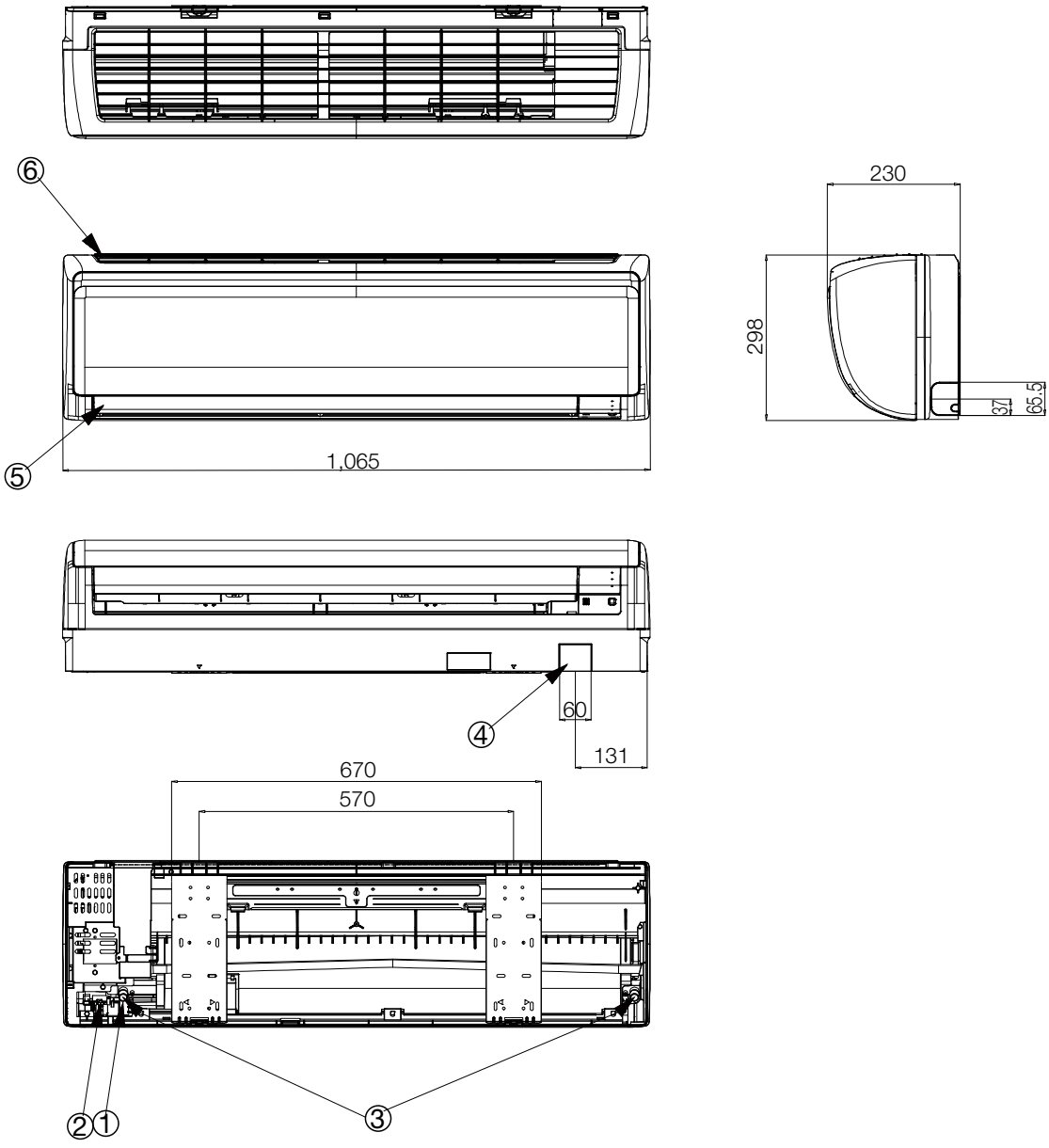


No.	Name	Description	
		2.6kW	3.5kW
①	Liquid pipe connection	Ø6.35mm Flare	
②	Gas pipe connection	Ø9.52mm Flare	
③	Drain pipe connection	ID18 Hose	
④	Conduit for power supply & communication wiring	-	
⑤	Air inlet grille	-	
⑥	Air outlet louver	-	

8-3. Dimensional drawing

2) AC052/071FBRDEH/EU

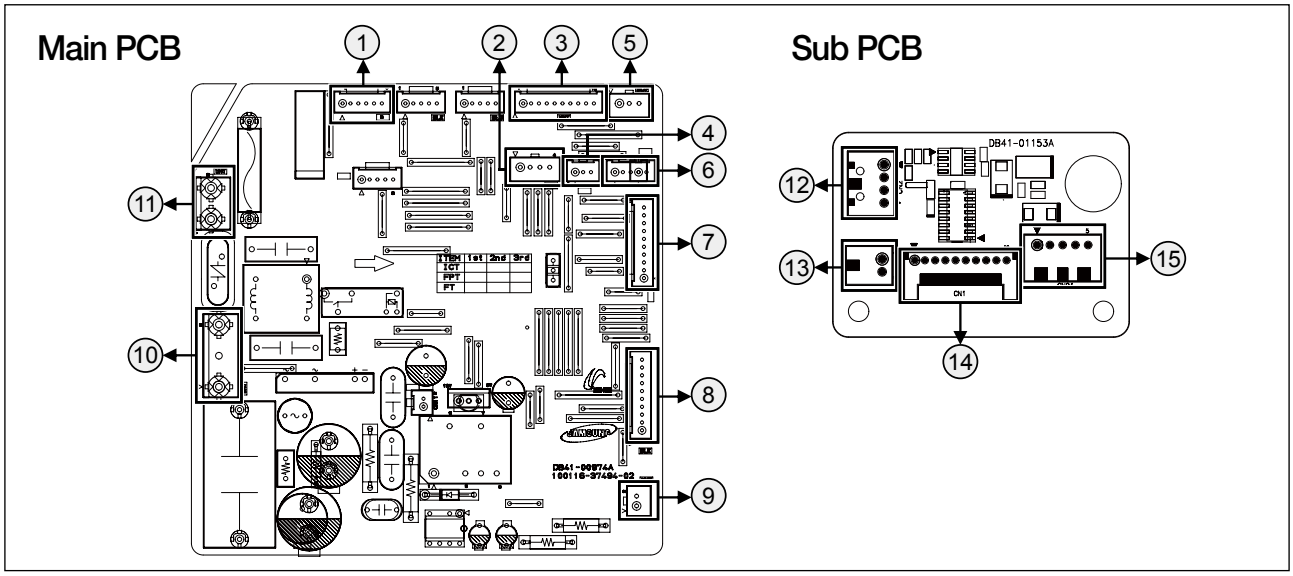
Unit:mm



No.	Name	Description	
		6.3kW	12.7kW
①	Liquid pipe connection	Ø6.35mm Flare	
②	Gas pipe connection	Ø12.70mm Flare	Ø15.88mm 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) AC026/035FBRDEH/EU(AC MOTOR)

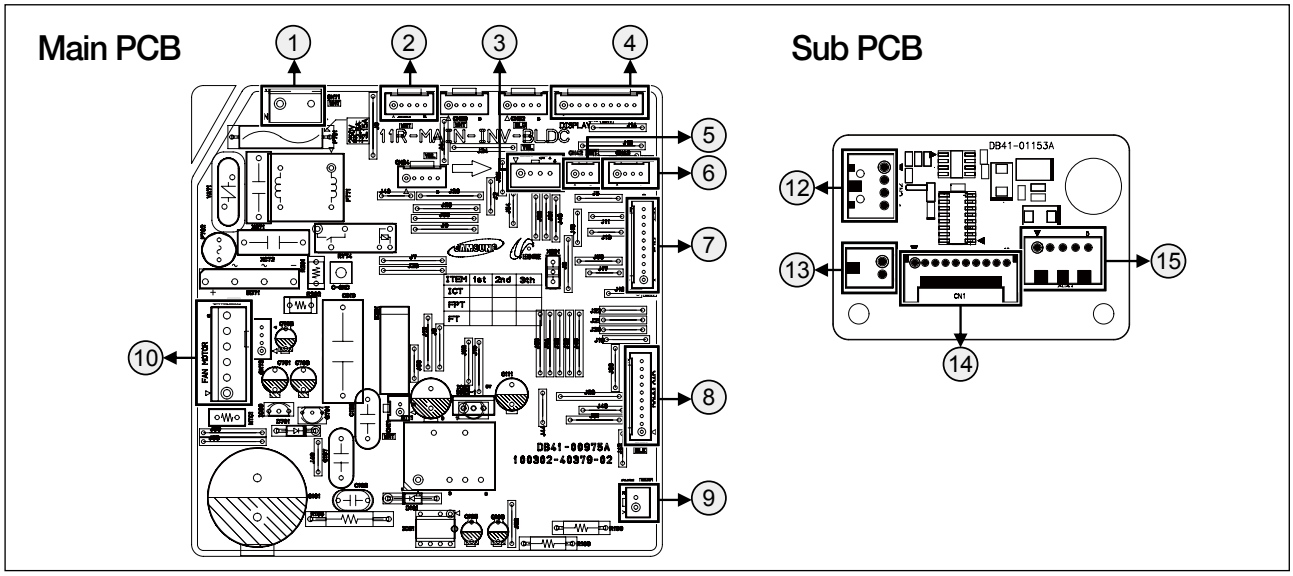


Main PCB			
No.	CN #	Color	Function
①	CN61	White	Louver stepping Motor
②	CN81	Yellow	SPi
③	CN91	White	DISPLAY
④	CN42	White	HUMIDITY SENSOR
⑤	CN44	Blue	Fan MOTOR Feedback
⑥	CN43	White	Thermistor(Room,EVA)
⑦	CN32	Blue	MAIN-SUB PCB Connector
⑧	CN31	Black	MICOM Download
⑨	CN21	White	Communication with Outdoor Unit(COM1)
⑩	CN72	White	Fan Motor Power
⑪	CN71	White	AC POWER Input

Sub PCB			
No.	CN #	Color	Function
⑫	CN61	RED	ERROR,COMP CHECK(MIM-B14)
⑬	CN81	RED	EXT-CTRL(MIM-B14)
⑭	CN91	White	MAIN-SUB PCB Connector
⑮	CN61	White	Communication with Wired Remote controller(COM2)

8-4. PCB connector lay-out

2) AC052/071FBRDEH/EU(BLDC MOTOR)

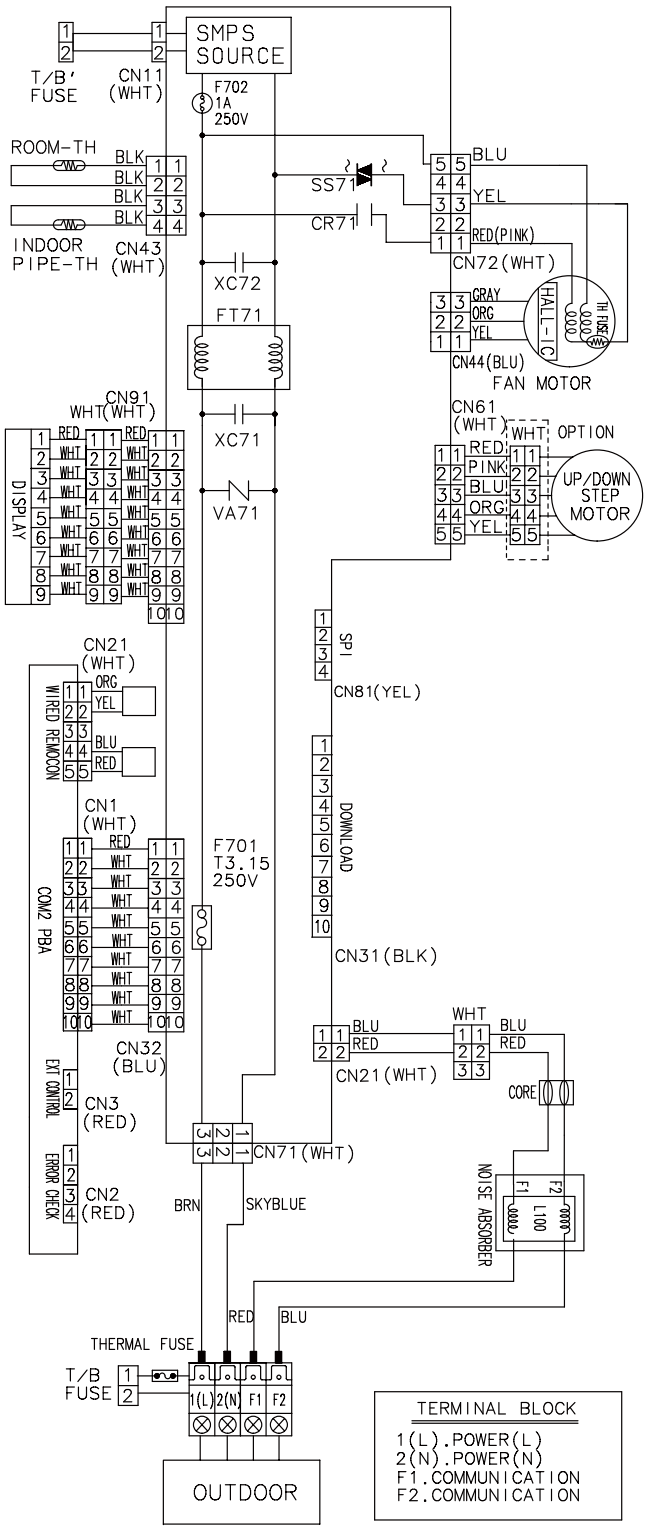


Main PCB			
No.	CN #	Color	Function
①	CN71	White	AC POWER Input
②	CN61	White	Louver stepping Motor
③	CN81	Yellow	SPi
④	CN91	White	DISPLAY
⑤	CN42	White	HUMIDITY SENSOR
⑥	CN43	White	Thermistor(Room,EVA)
⑦	CN32	Blue	MAIN-SUB PCB Connector
⑧	CN31	Black	MICOM Download
⑨	CN21	White	Communication with Outdoor Unit(COM1)
⑩	CN72	White	Fan Motor(BLDC)

Sub PCB			
No.	CN #	Color	Function
⑫	CN2	RED	ERROR,COMP CHECK(MIM-B14)
⑬	CN3	RED	EXT-CTRL(MIM-B14)
⑭	CN1	White	MAIN-SUB PCB Connector
⑮	CN21	White	Communication with Wired Remote controller(COM2)

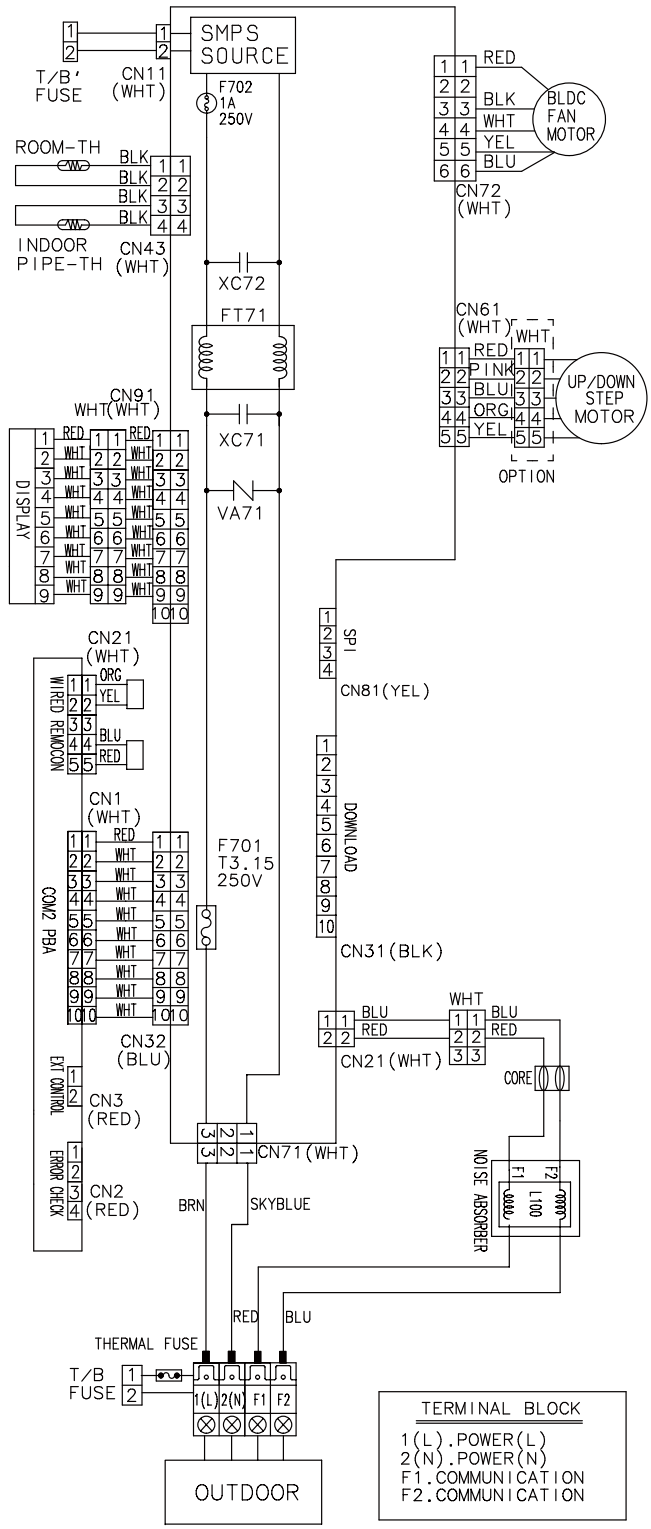
8-5. Electrical wiring diagram

1) AC026/035FBRDEH/EU



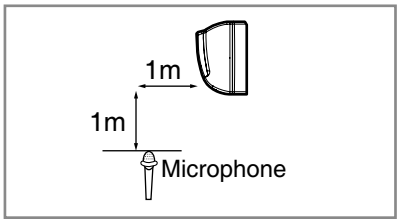
8-5. Electrical wiring diagram

2) AC052/071FBRDEH/EU



8-6. Sound pressure level

1) Operation sound level



Unit : dB(A)

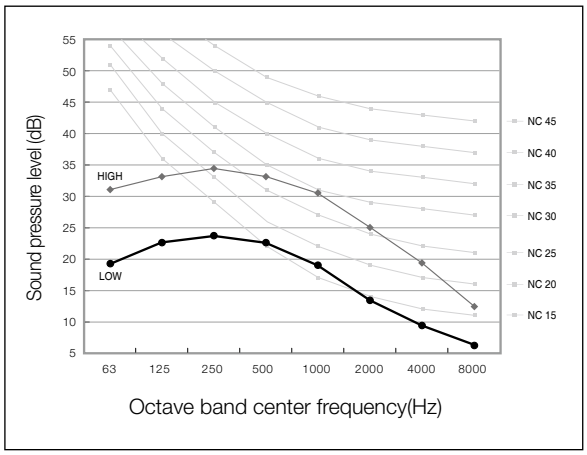
Model	High	Low
AC026FBRDEH/EU	35	24
AC035FBRDEH/EU	37	25
AC052FBRDEH/EU	40	30
AC071FBRDEH/EU	44	31

☑ *Note*

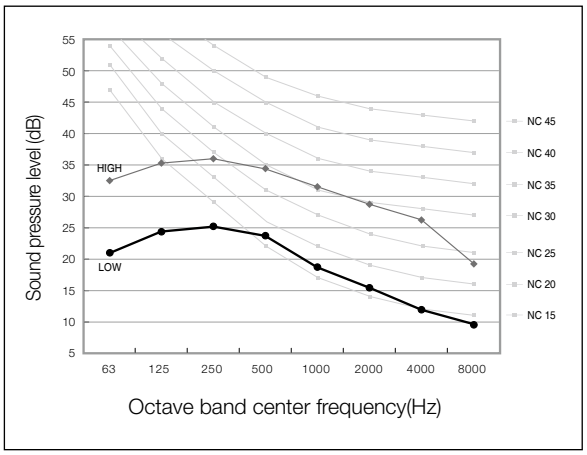
- ◆ These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- ◆ Operation sound level may differ depending on operation and ambient conditions.

2) NC curves

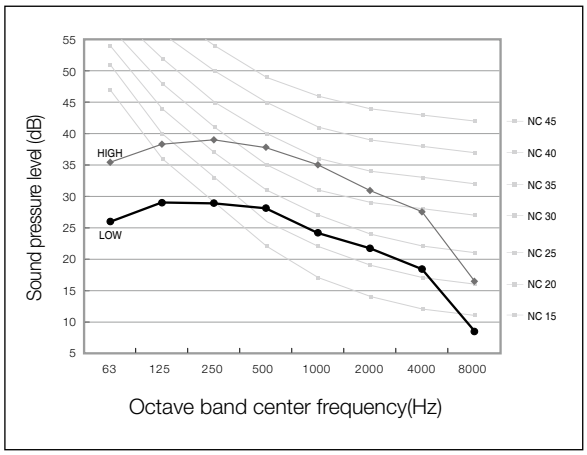
(1) AC026FBRDEH/EU



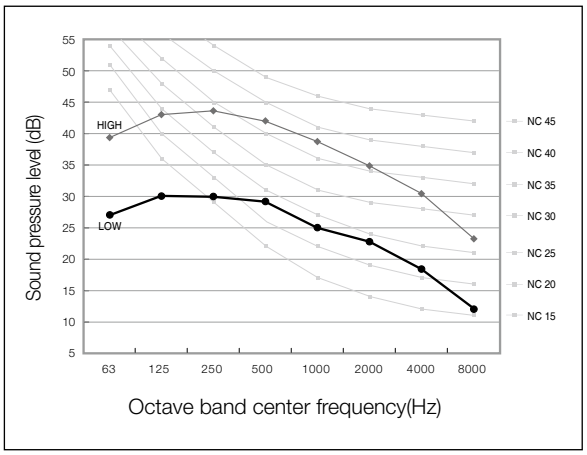
(2) AC035FBRDEH/EU



(3) AC052FBRDEH/EU



(4) AC071FBRDEH/EU

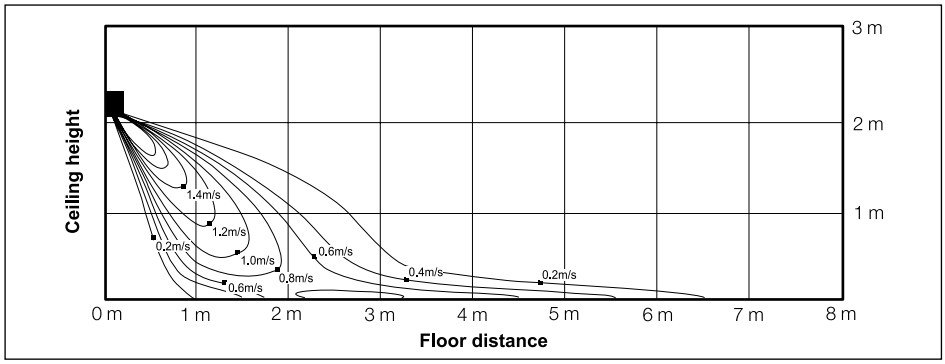


8-7. Temperature and air flow distribution

1) AC035FBRDEH/EU

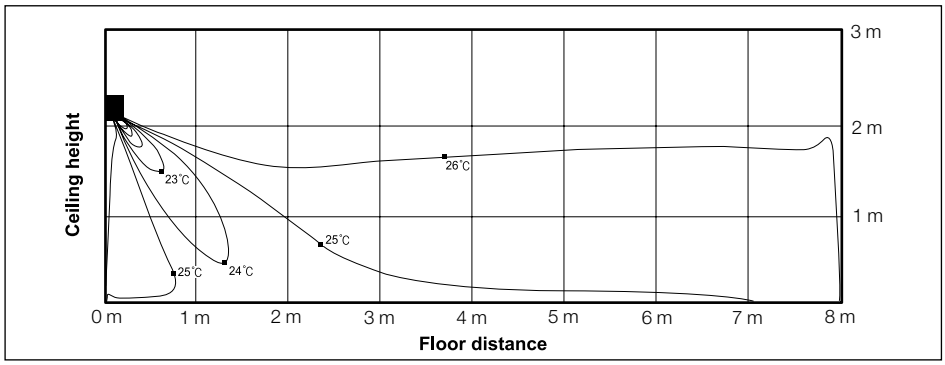
(1) Cooling air velocity distribution

◆ Discharge angle : 60°



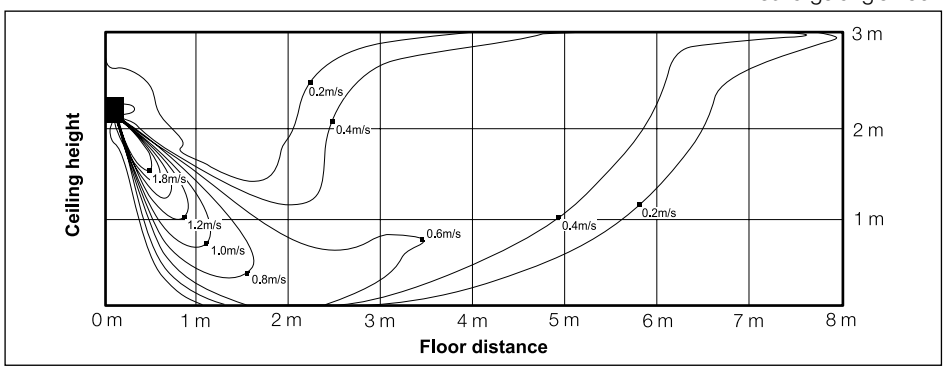
(2) Cooling temperature distribution

◆ Discharge angle : 60°



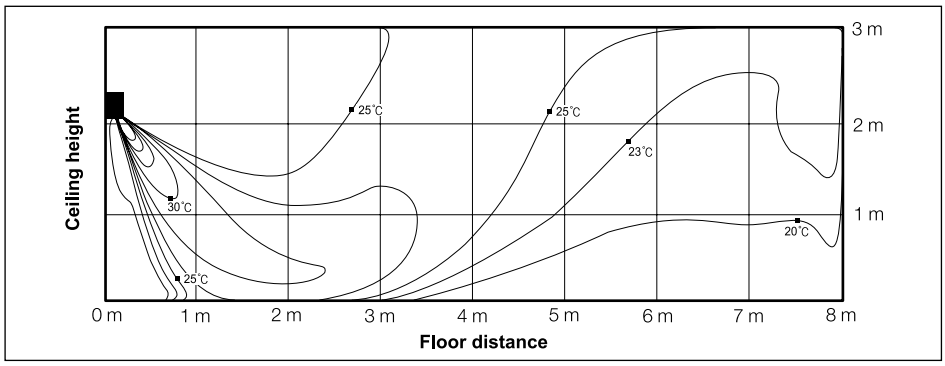
(3) Heating air velocity distribution

◆ Discharge angle : 60°



(4) Heating temperature distribution

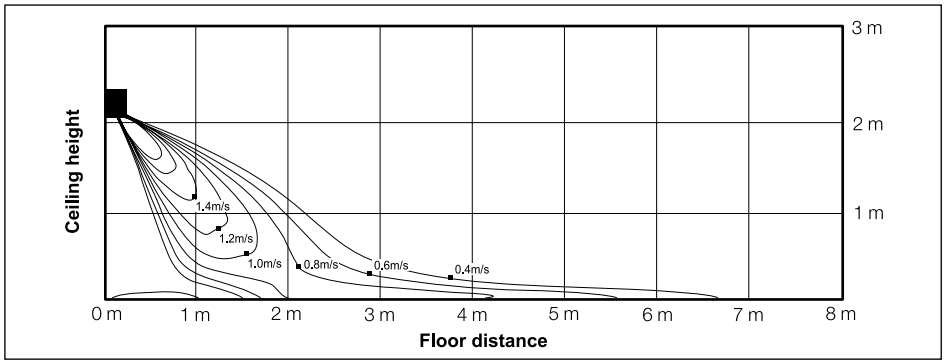
◆ Discharge angle : 60°



2) AC071FBRDEH/EU

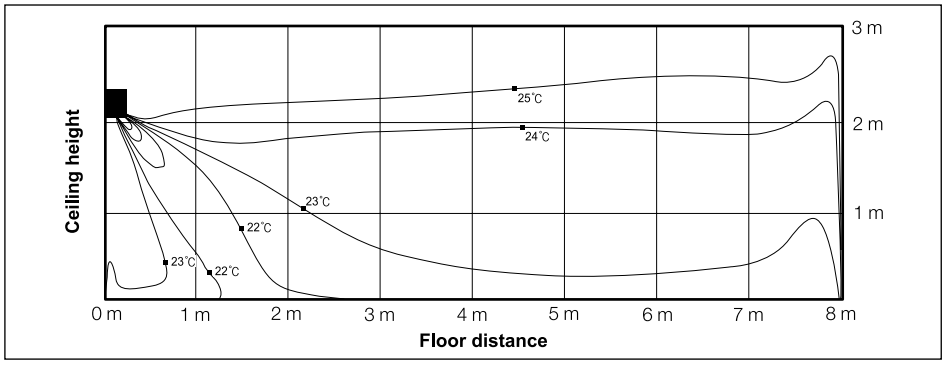
(1) Cooling air velocity distribution

◆ Discharge angle : 60°



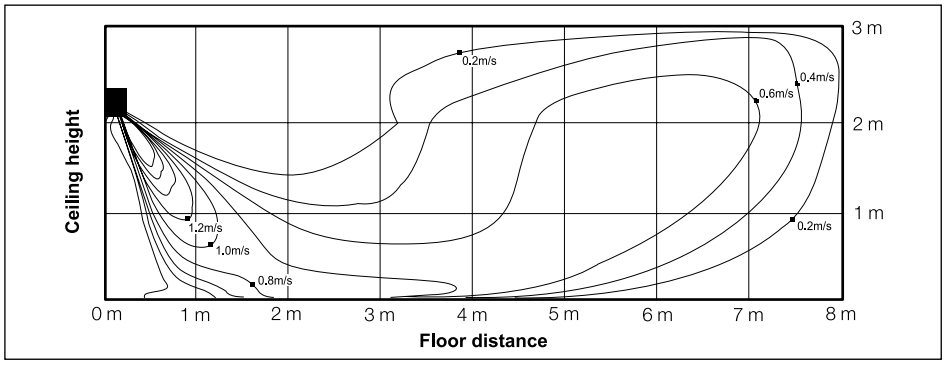
(2) Cooling temperature distribution

◆ Discharge angle : 60°



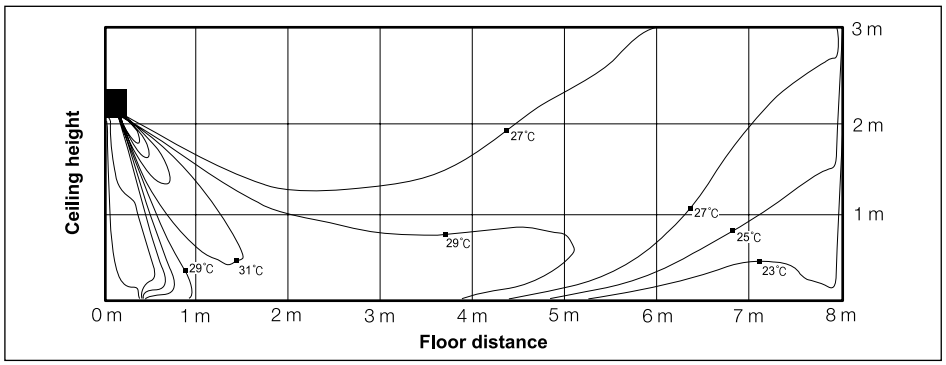
(3) Heating air velocity distribution

◆ Discharge angle : 60°



(4) Heating temperature distribution

◆ Discharge angle : 60°



Specifications

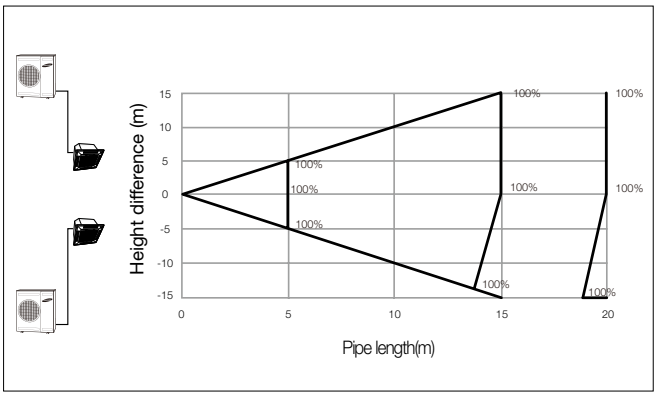
9 Outdoor units

9-1. Capacity correction 156
9-2. Electrical wiring diagram 163
9-3. Sound pressure level 167
9-4. Cycle diagram 172
9-5. Dimensional drawing 173

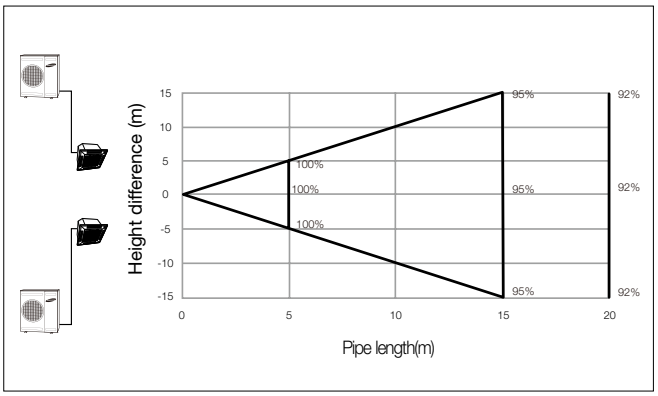
9-1. Capacity correction

1) AC026FCADEH/EU

(1) Cooling

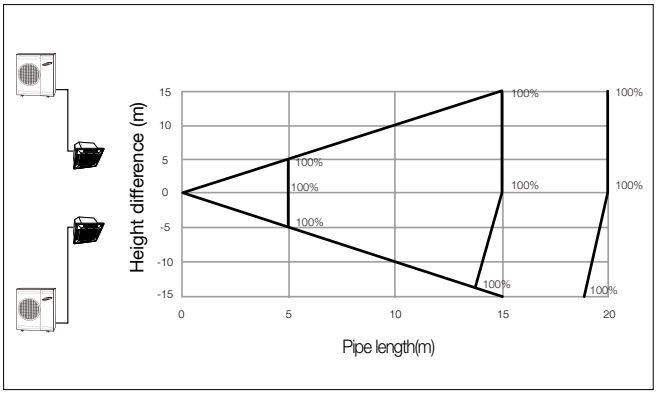


(2) Heating

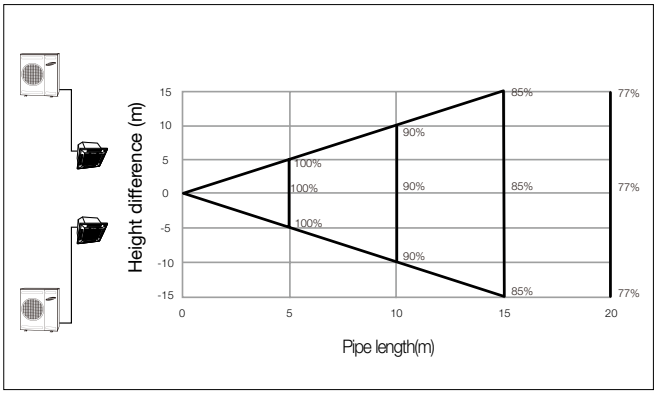


2) AC035FCADEH/EU

(1) Cooling

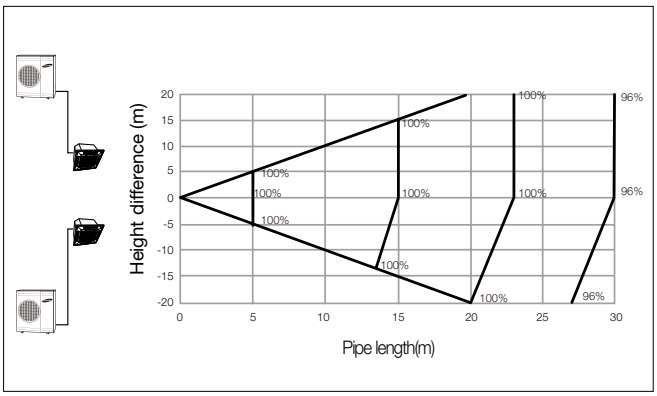


(2) Heating

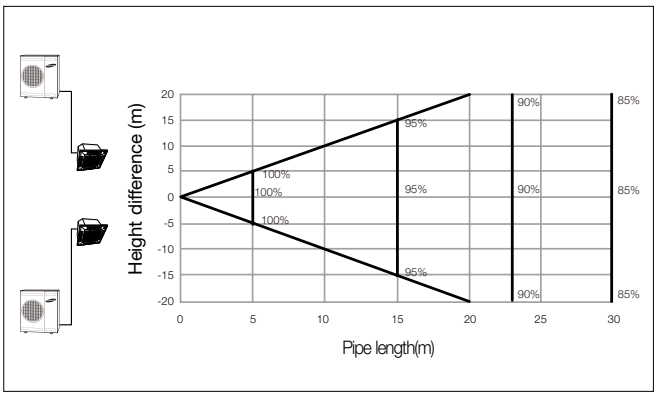


3) AC052FCADEH/EU

(1) Cooling

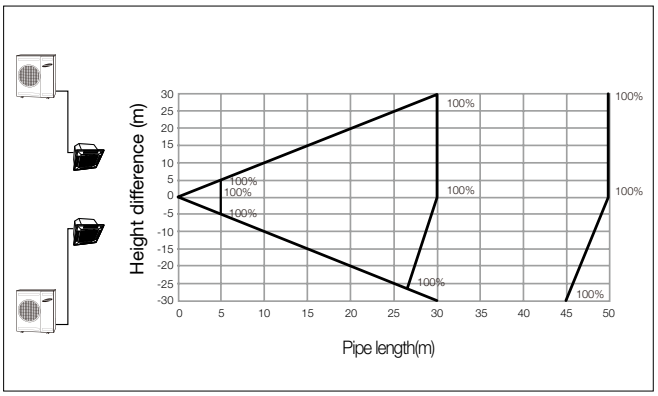


(2) Heating

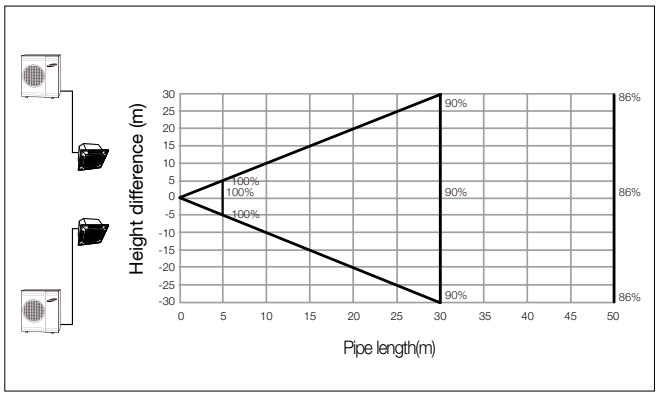


4) AC060FCADEH/EU

(1) Cooling

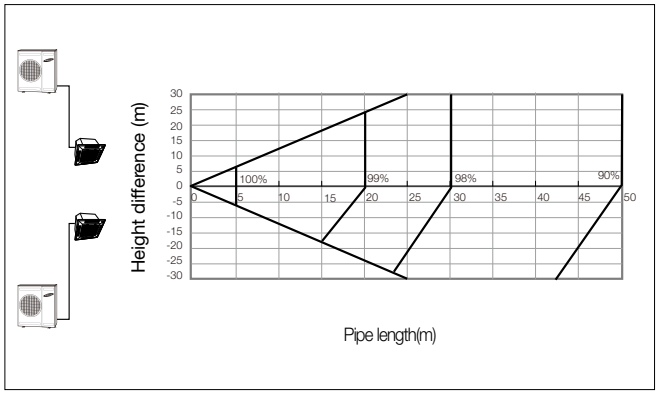


(2) Heating

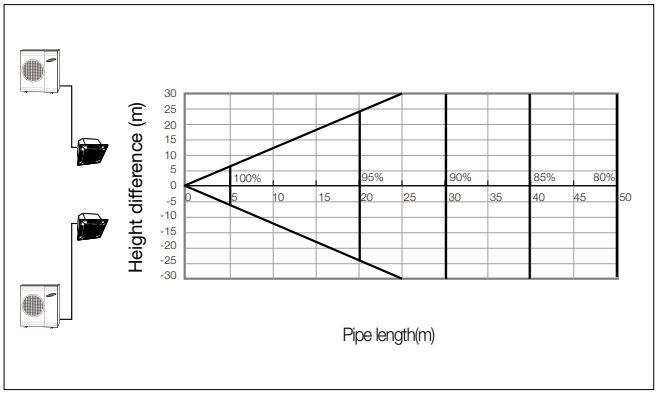


5) AC071FCADEH/EU

(1) Cooling

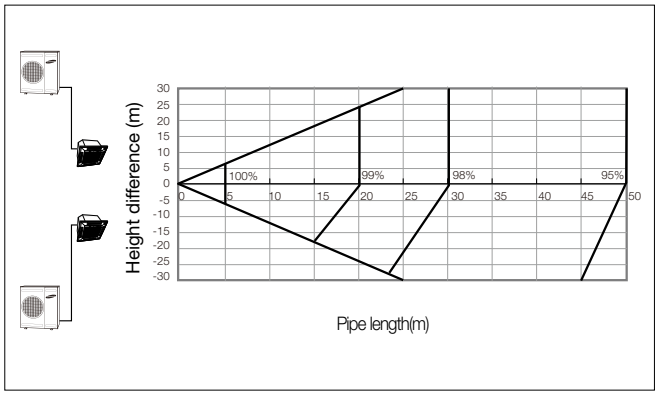


(2) Heating

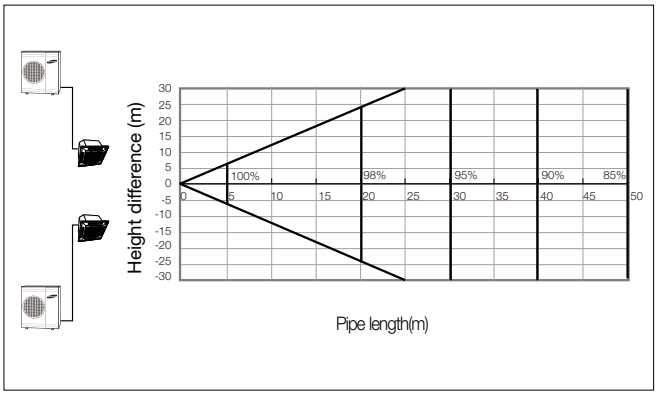


6) AC071FCAPEH/EU

(1) Cooling



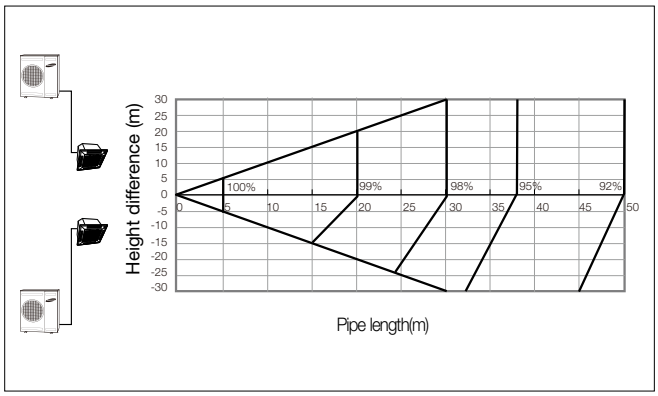
(2) Heating



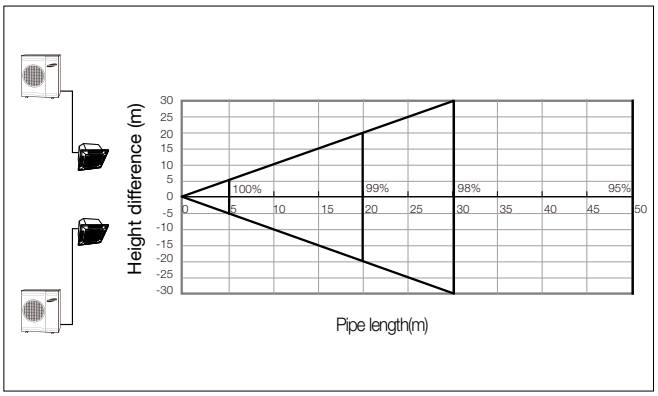
9-1. Capacity correction

7) AC090FCADEH/EU

(1) Cooling

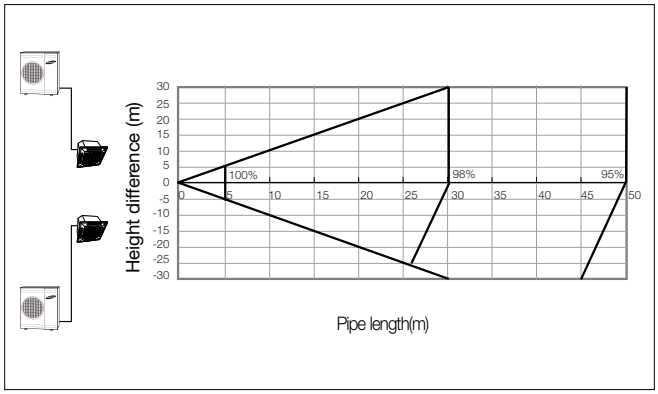


(2) Heating

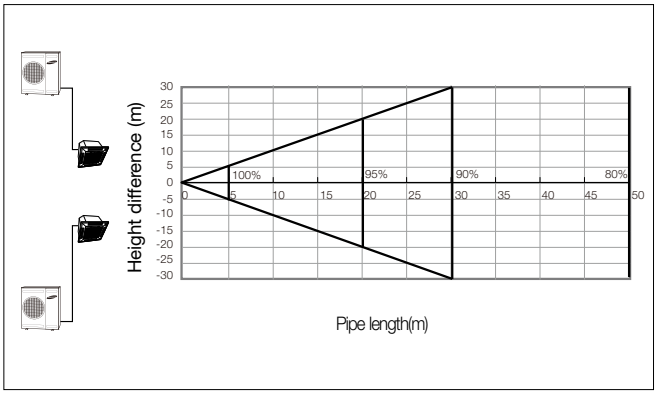


8) AC090FCAPEH/EU

(1) Cooling

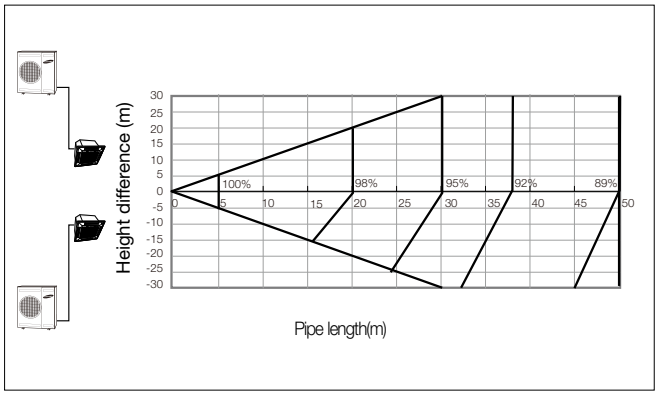


(2) Heating

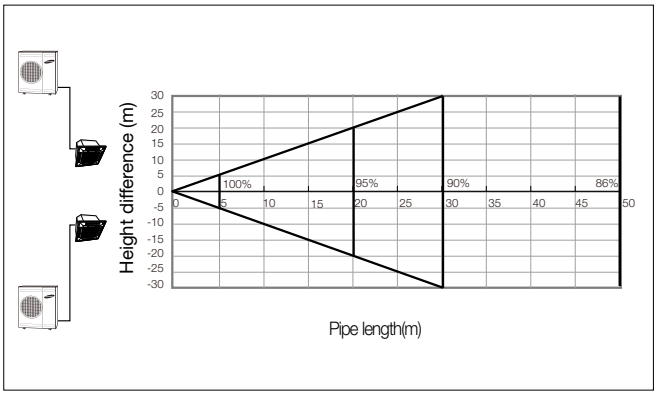


9) AC100FCADEH/EU, AC100FCADGH/EU

(1) Cooling

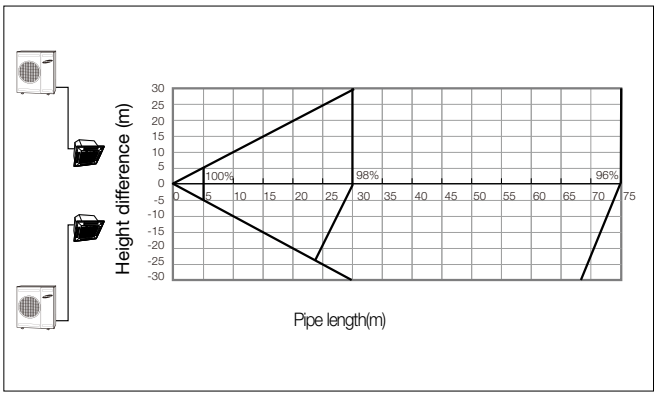


(2) Heating

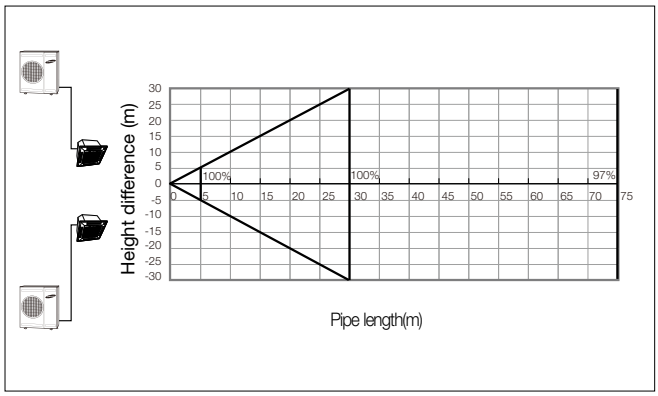


10) AC100FCAPEH/EU, AC100FCAPGH/EU

(1) Cooling

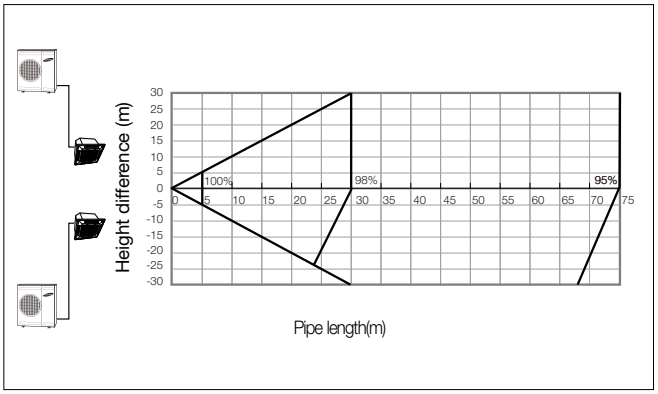


(2) Heating

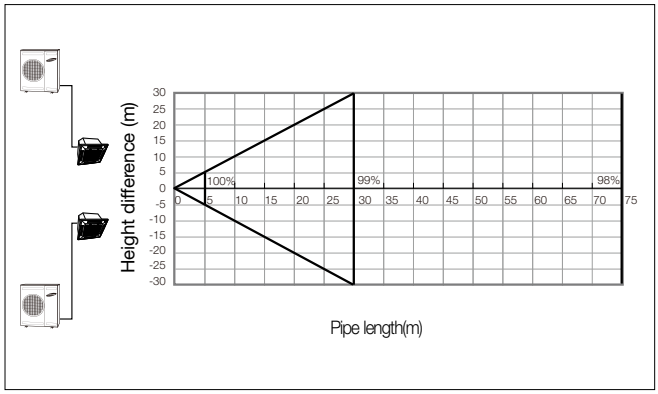


11) AC100FCAFEH/EU

(1) Cooling

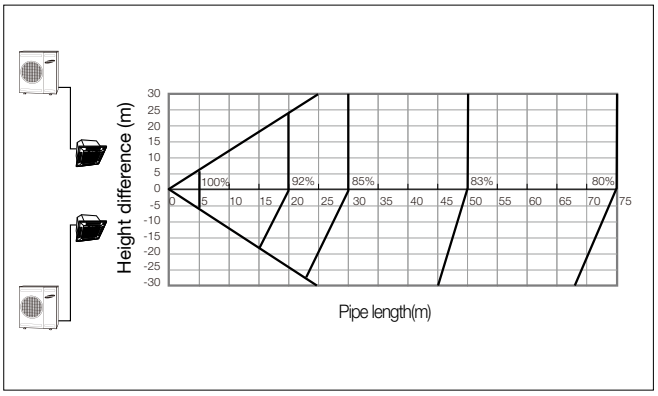


(2) Heating

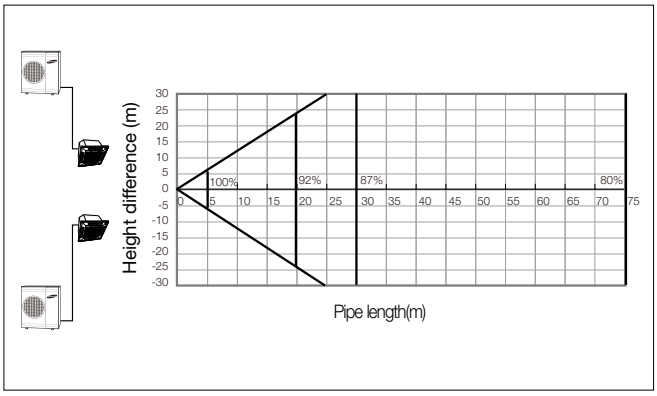


12) RC125DHXEB, RC125DHXGA

(1) Cooling



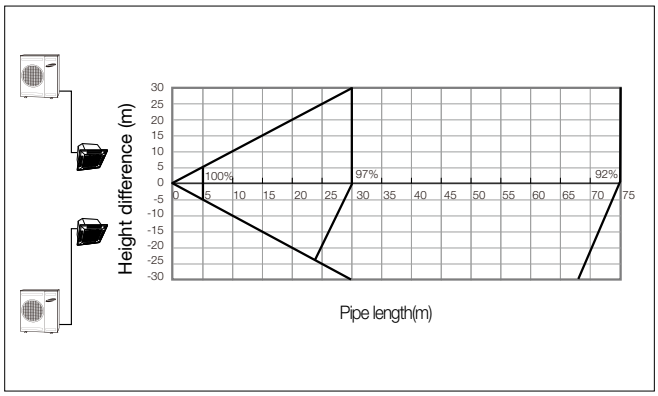
(2) Heating



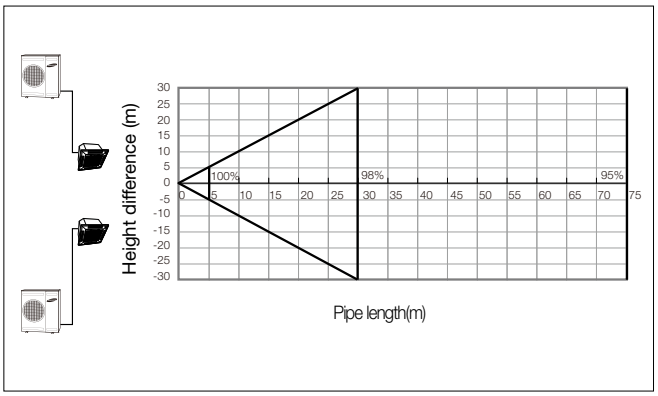
9-1. Capacity correction

13) RC125PHXEA, RC125PHXGA

(1) Cooling

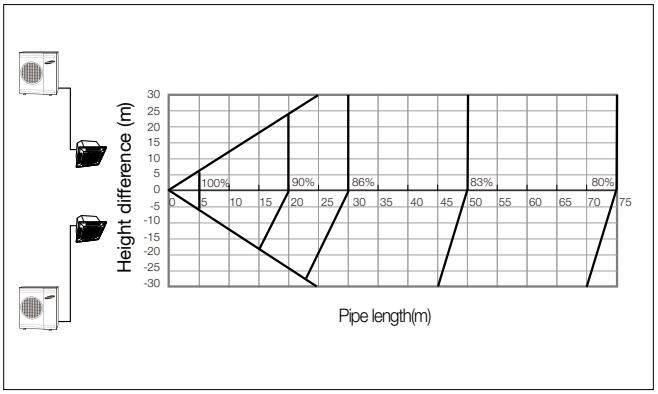


(2) Heating

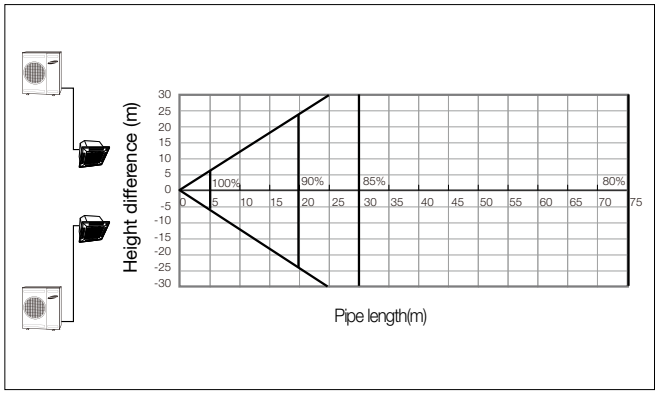


14) RC140DHXEB/RC140DHXGA

(1) Cooling

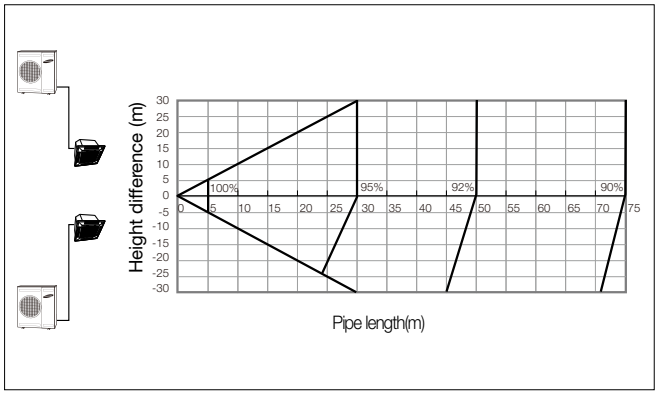


(2) Heating

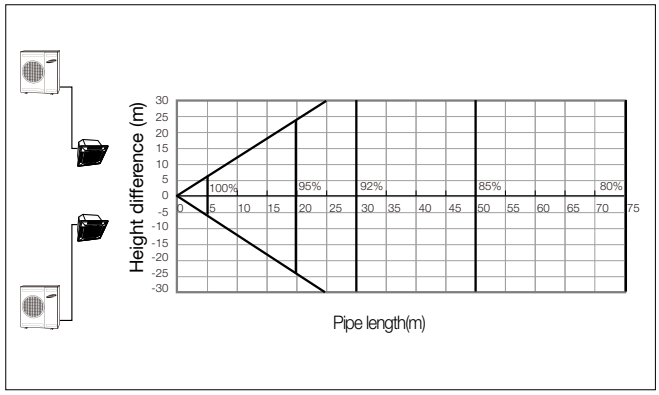


15) RC140PHXEA, RC140PHXGA

(1) Cooling

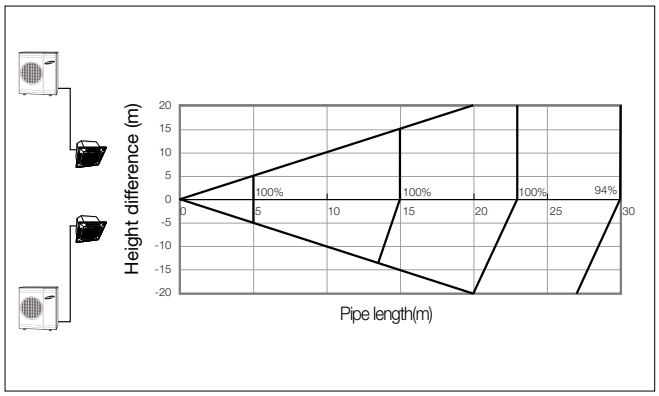


(2) Heating

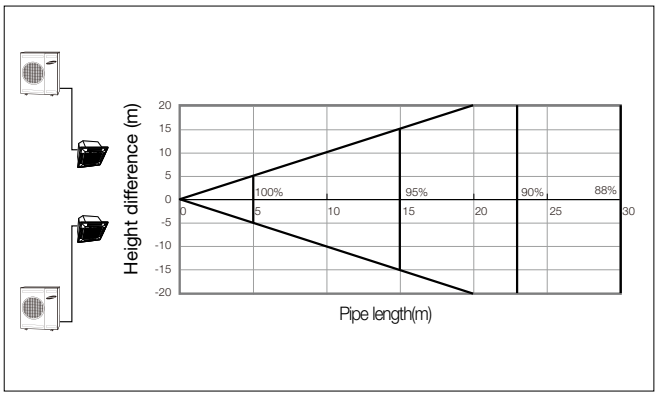


16) AC052FCASEH/EU

(1) Cooling

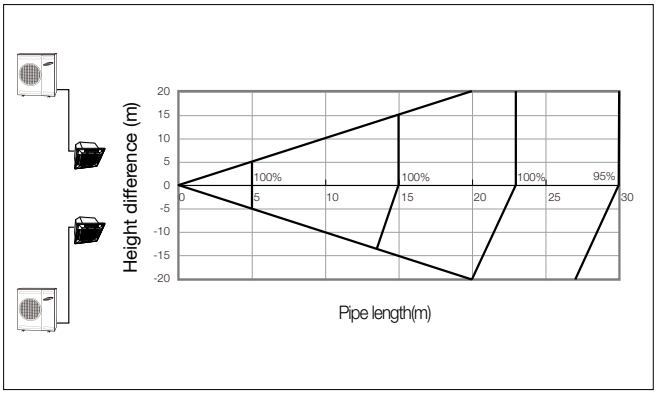


(2) Heating

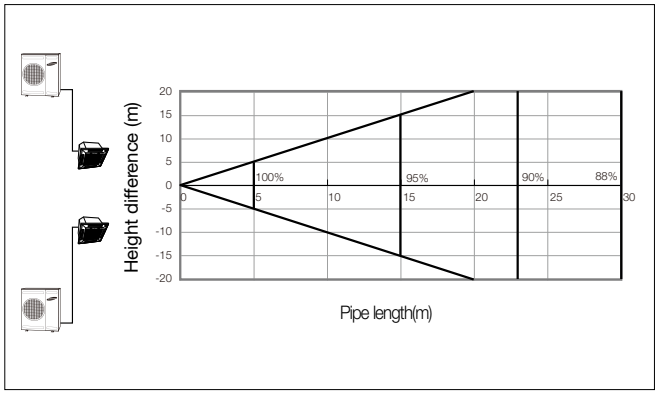


17) AC071FCASEH/EU

(1) Cooling

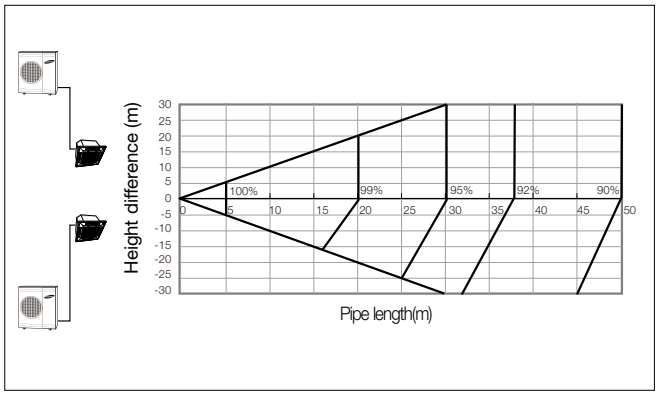


(2) Heating

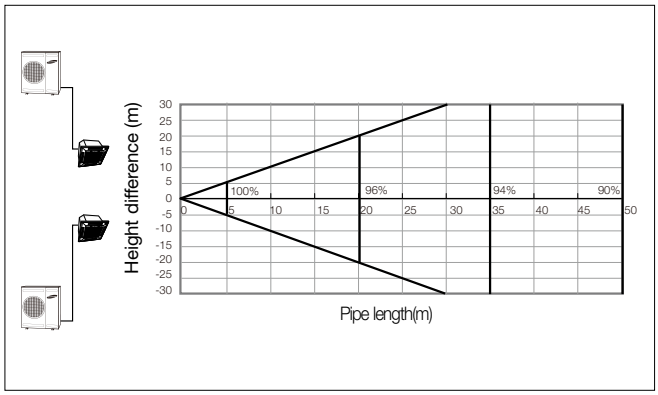


18) AC090FCASEH/EU

(1) Cooling



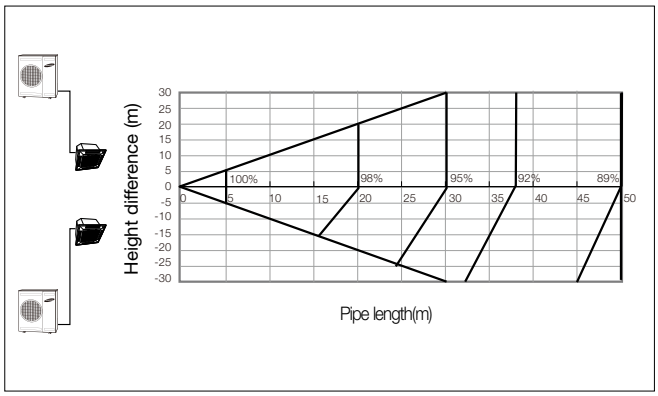
(2) Heating



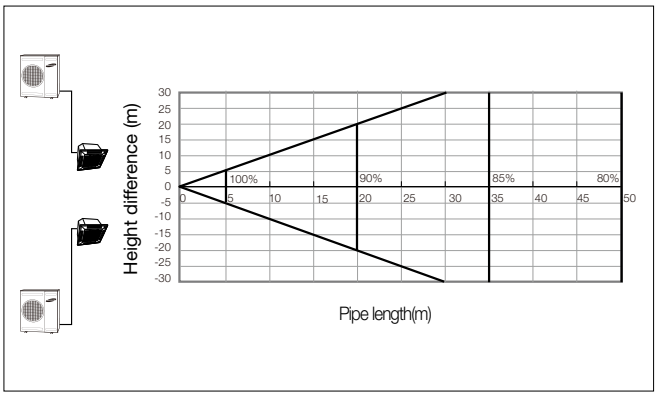
9-1. Capacity correction

19) AC100FCASEH/EU

(1) Cooling

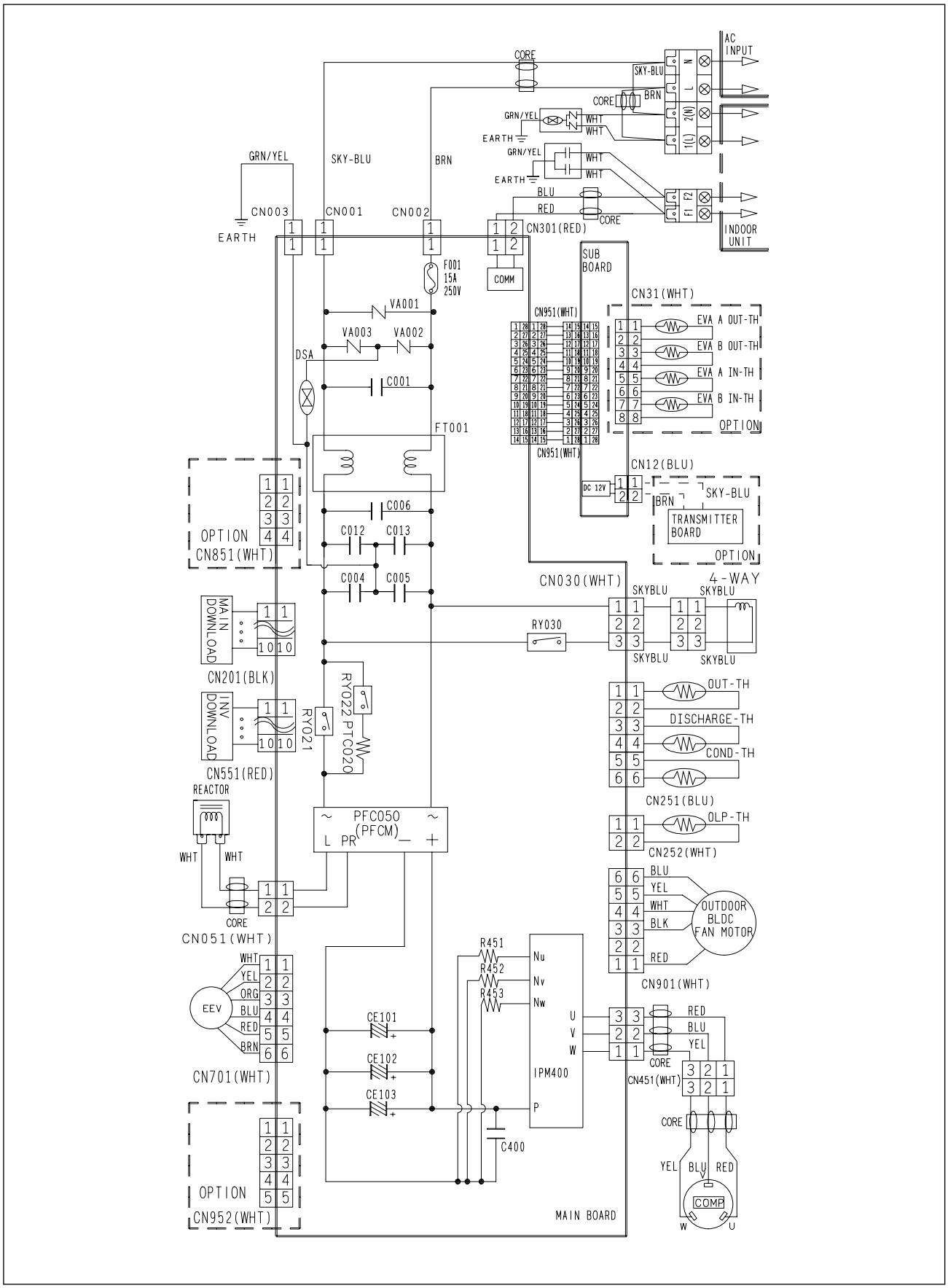


(2) Heating



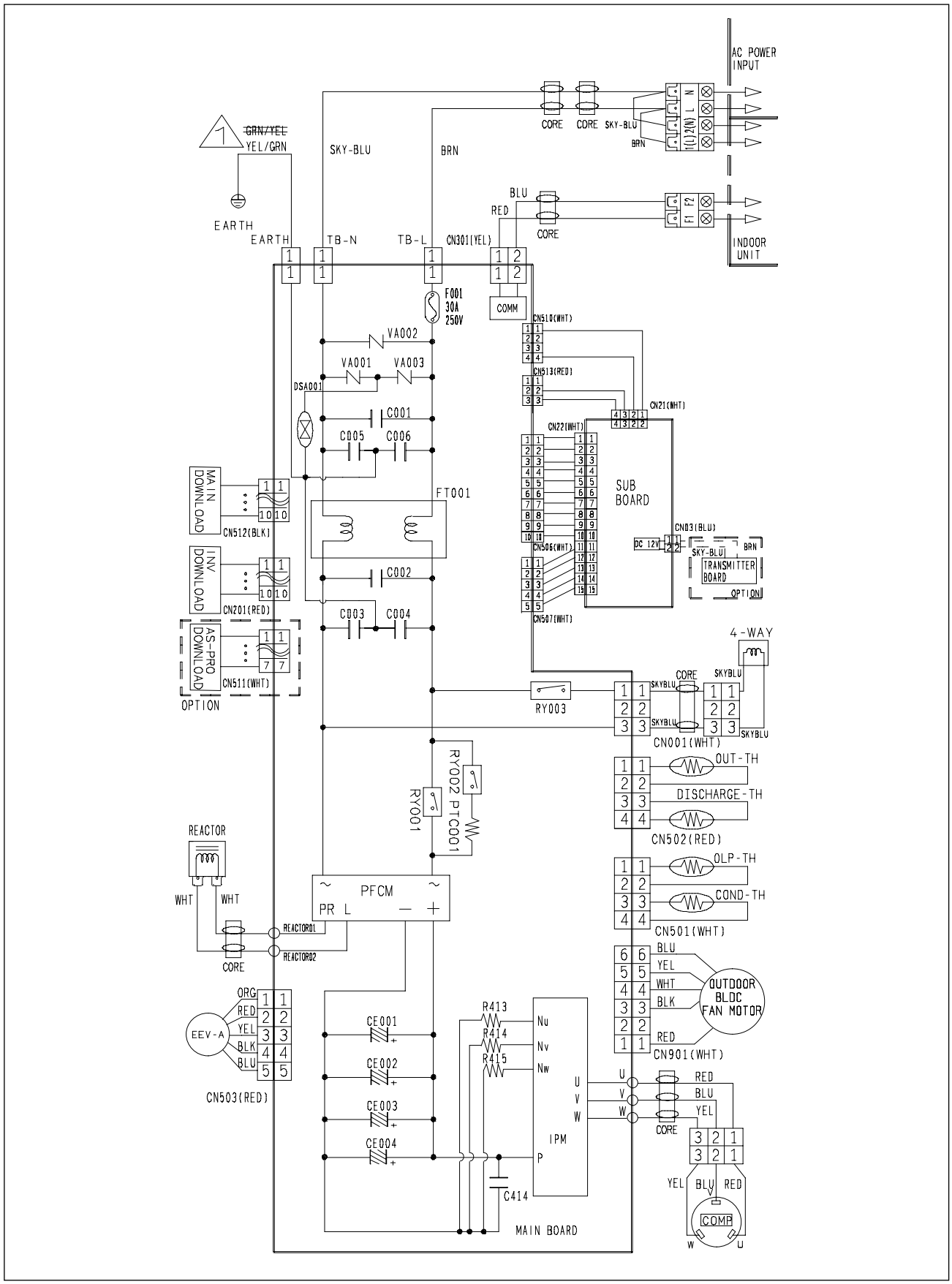
9-2. Electrical wiring diagram

1) AC026/035/052FCADEH, AC052FCASEH

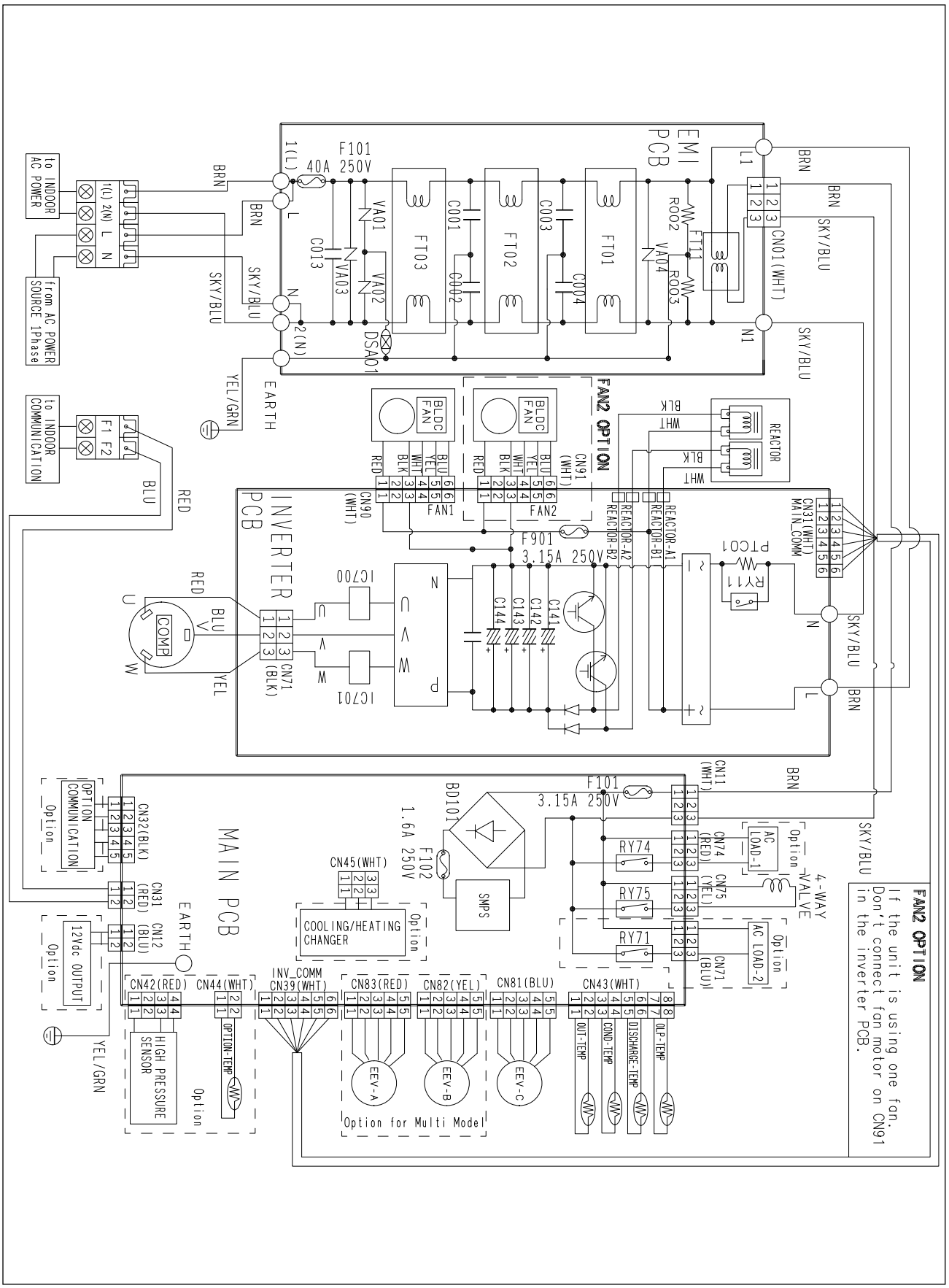


9-2. Electrical wiring diagram

2) AC060/071FCADEH, AC071FCAP(S)EH

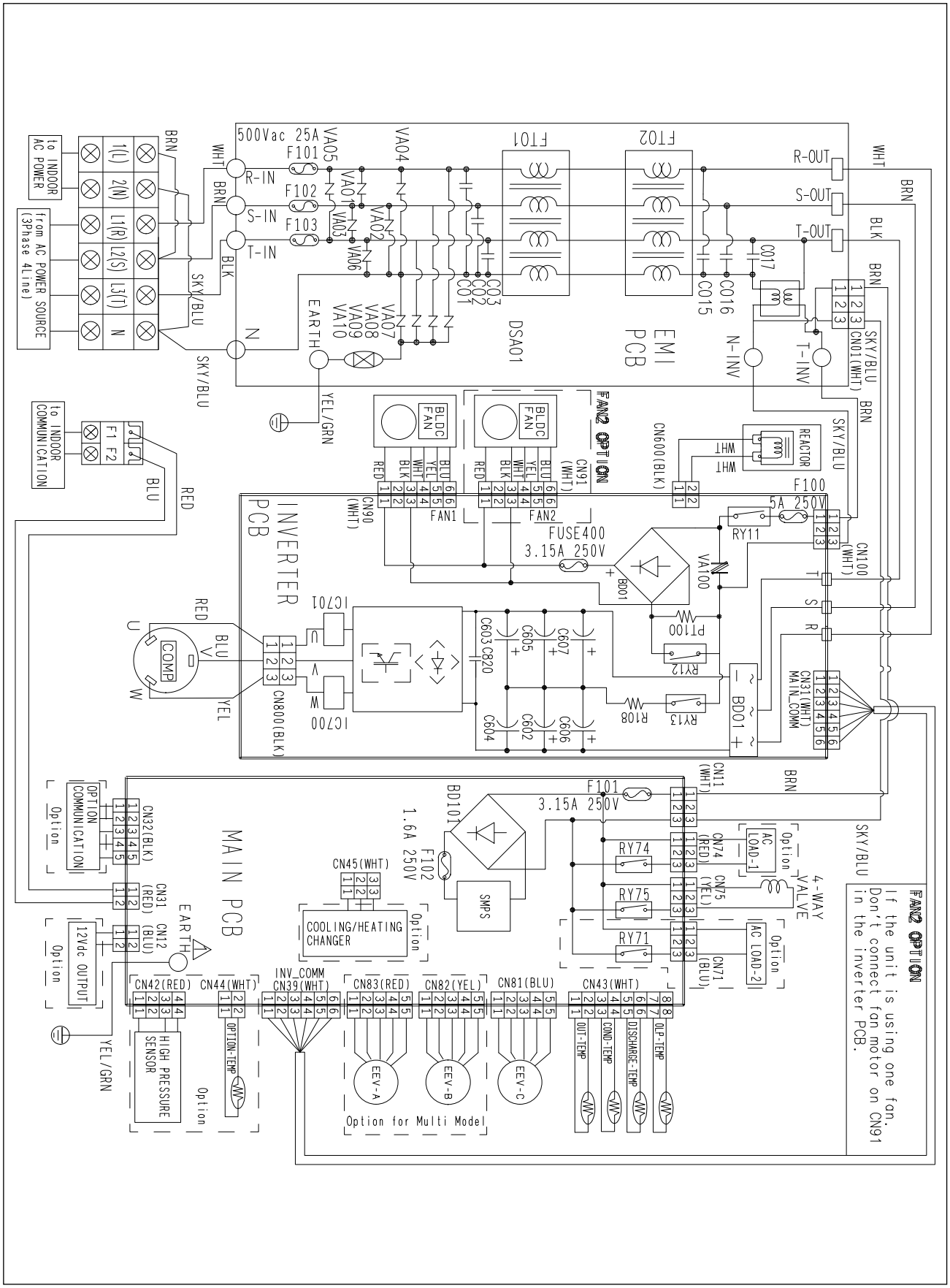


3) AC090/100FCA✳EH, AC100FCAFEH, RC125/140D(P)HXE✳



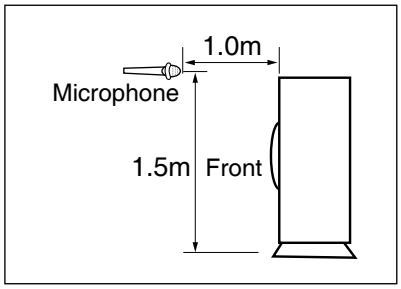
9-2. Electrical wiring diagram

4) AC100FCAD(P)GH, RC125/140D(P)HXGA



9-3. Sound pressure level

1) Operation sound level



Unit: dB(A)

Model	Cooling	Heating
AC026FCADEH/EU	46	47
AC035FCADEH/EU	47	48
AC052FCADEH/EU	48	49
AC060FCADEH/EU	49	50
AC071FCADEH/EU	49	51
AC052FCADEU/EU	48	49
AC071FCADEH/EU	49	51
AC071FCAPEH/EU	49	51
AC090FCADEH/EU	51	52
AC090FCAPEH/EU	52	53
AC100FCADEH/EU	52	54

Unit: dB(A)

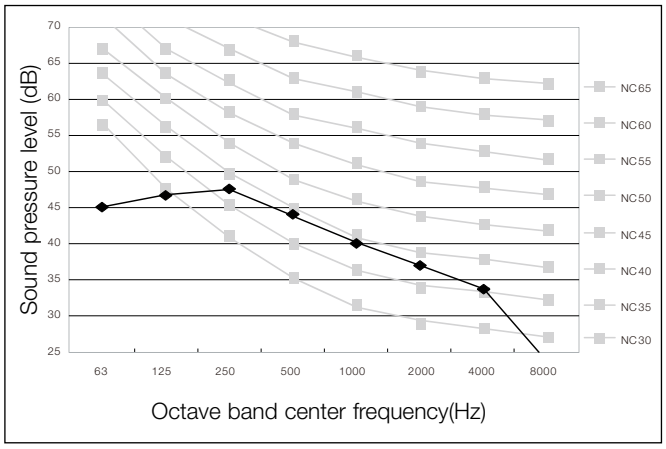
Model	Cooling	Heating
AC100FCADGH/EU	52	54
AC100FCAPEH/EU	50	52
AC100FCAPGH/EU	50	52
AC100FCAFEH/EU	49	51
RC125DHXEB	51	52
RC125DHXGA	51	52
RC125PHXEA	51	52
RC125PHXGA	51	52
RC140DHXEB	52	54
RC140DHXGA	52	54
RC140PHXEA	51	53
RC140PHXGA	51	53

Note

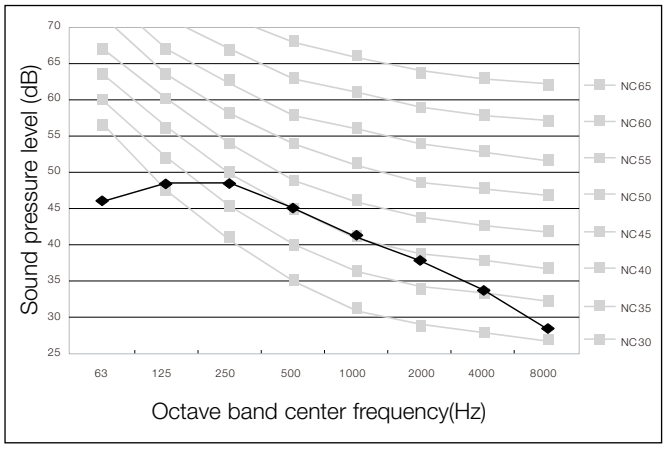
- ◆ These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- ◆ Operation sound level may differ depending on operation and ambient conditions.

2) NC curves

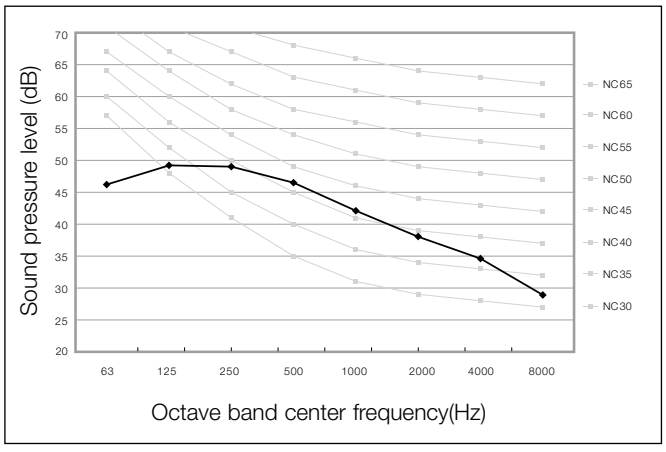
(1) AC026FCADEH/EU



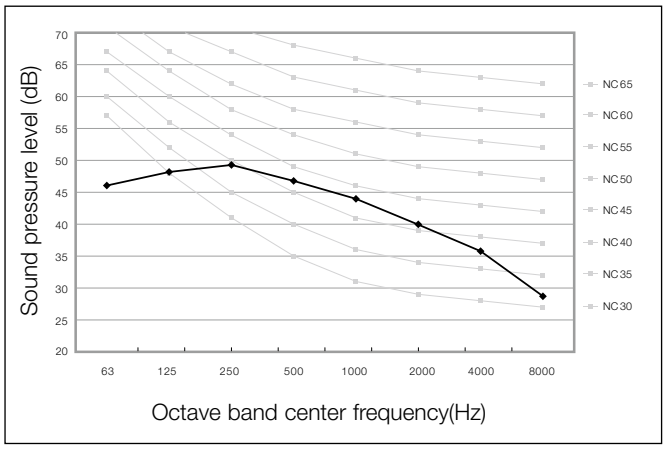
(2) AC035FCADEH/EU



(3) AC052FCADEH/EU



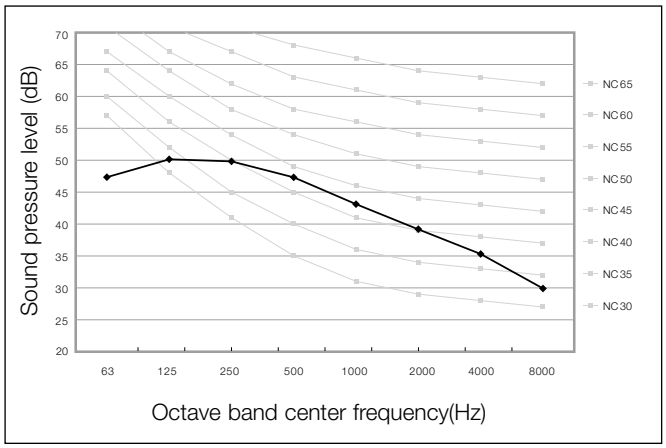
(4) AC060FCADEH/EU



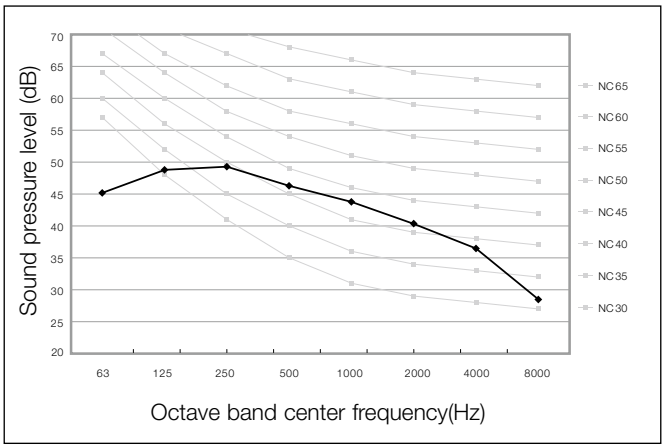
9-3. Sound pressure level

2) NC curves

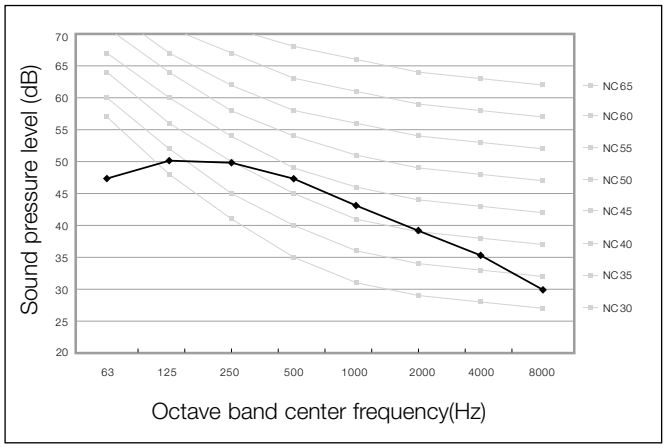
(5) AC071FCADEH/EU



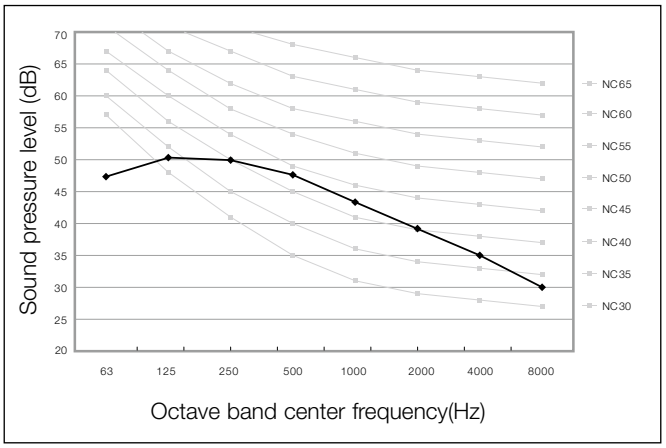
(6) AC052FCADEU/EU



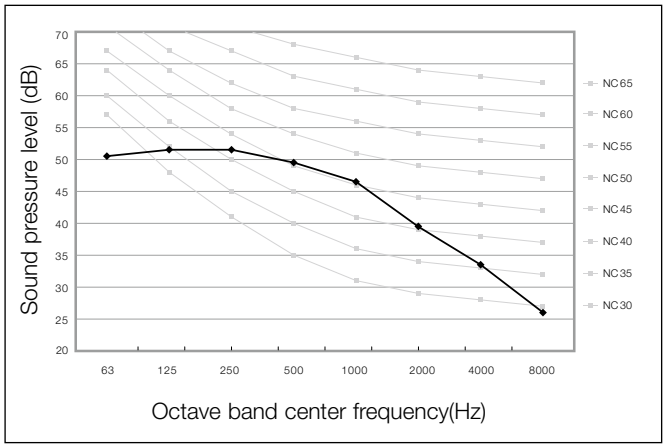
(7) AC071FCADEH/EU



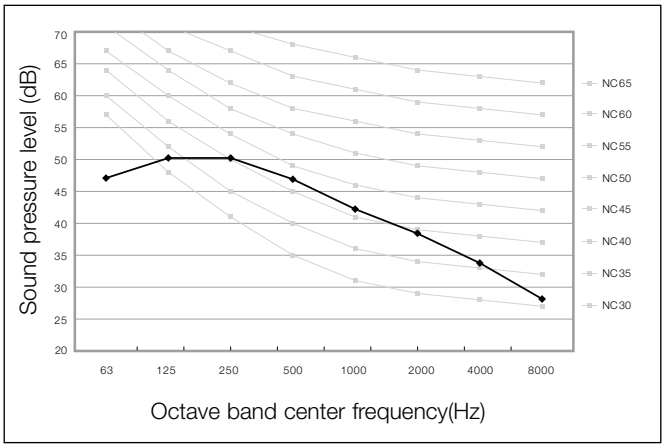
(8) AC071FCAPEH



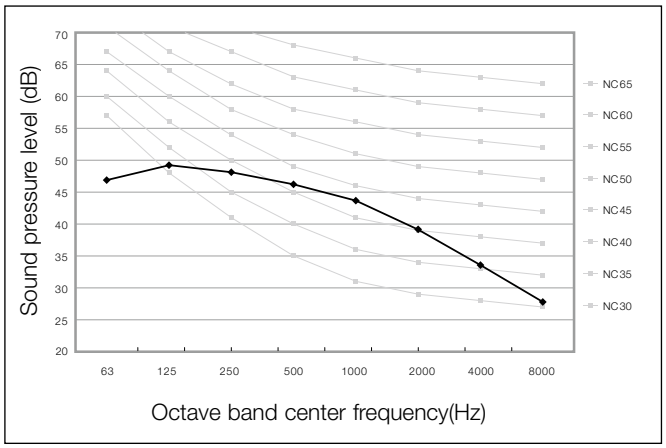
(9) AC090FCADEH/EU



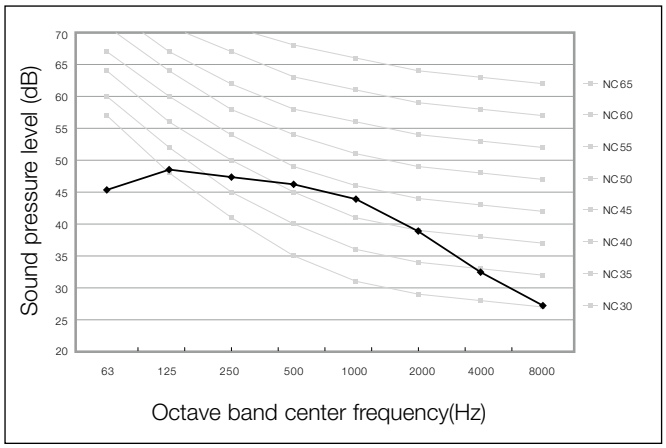
(10) AC090FCAPEH/EU



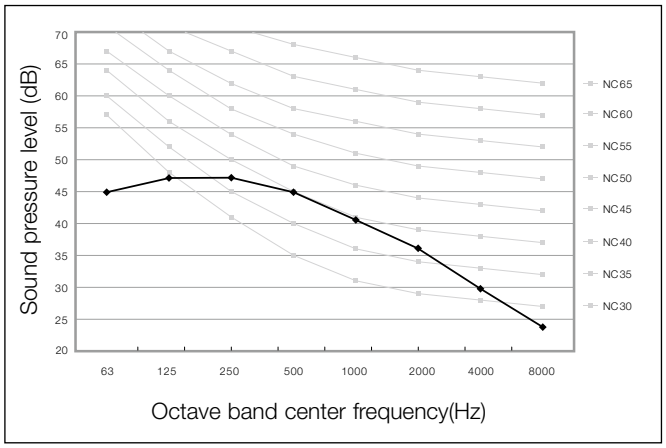
(11) AC100FCADEH/EU



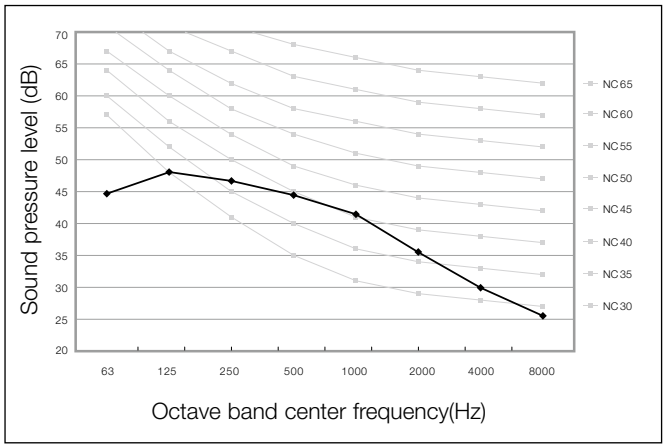
(12) AC100FCADGH/EU



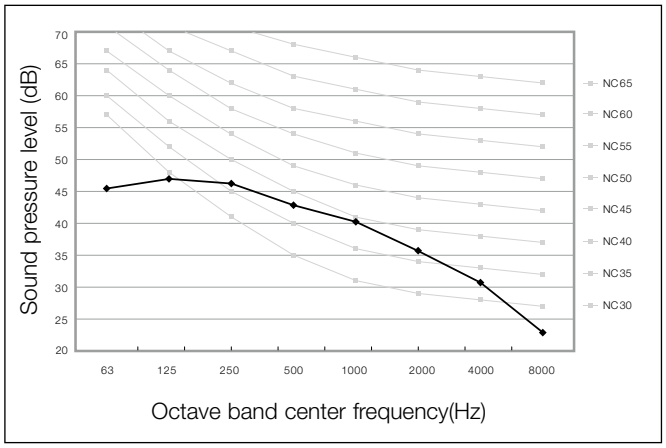
(13) AC100FCAPEH/EU



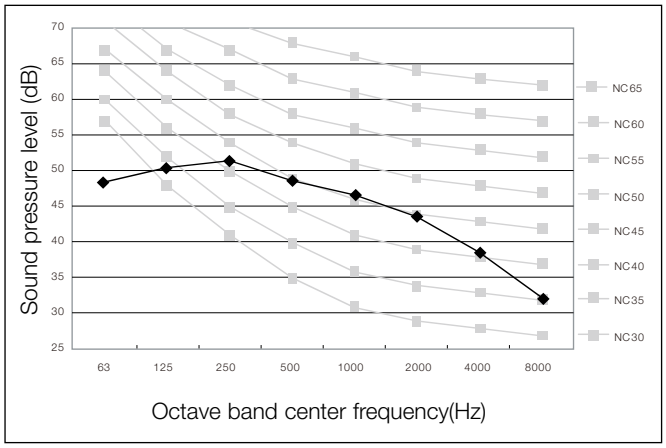
(14) AC100FCAPGH/EU



(15) AC100FCAFEH/EU



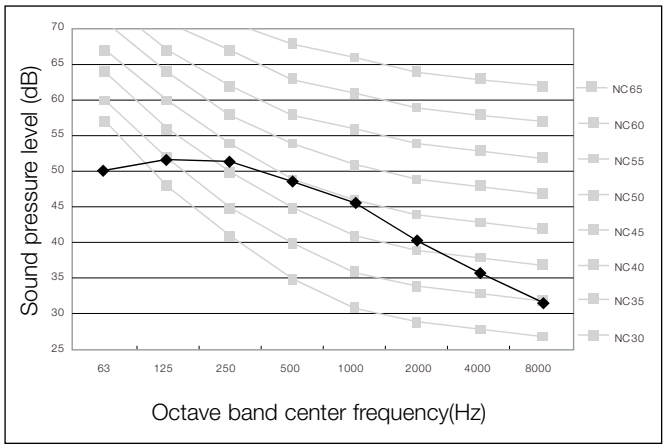
(16) RC125DHXEB



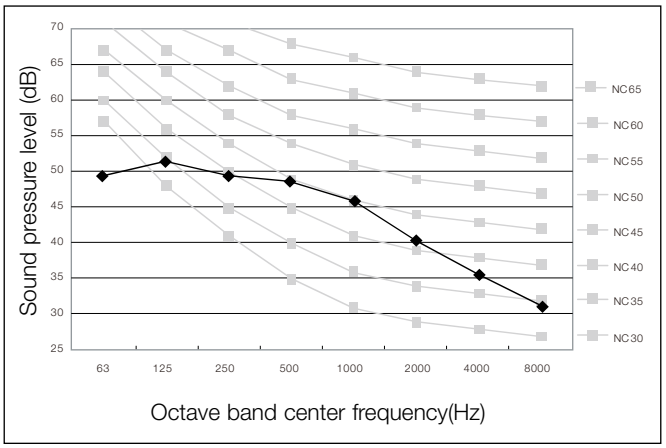
9-3. Sound pressure level

2) NC curves

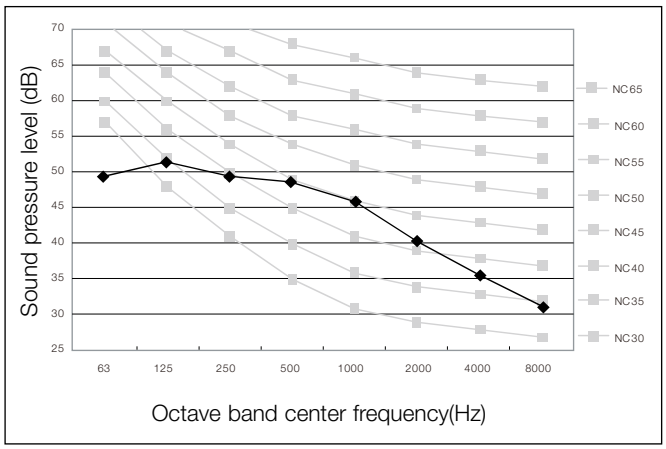
(17) RC125DHXGA



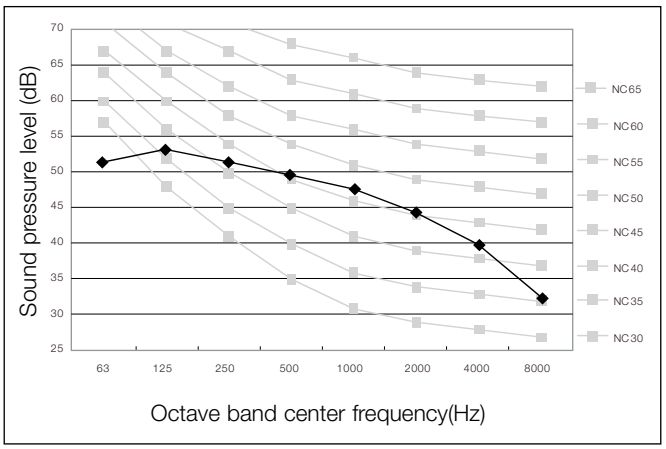
(18) RC125PHXEA



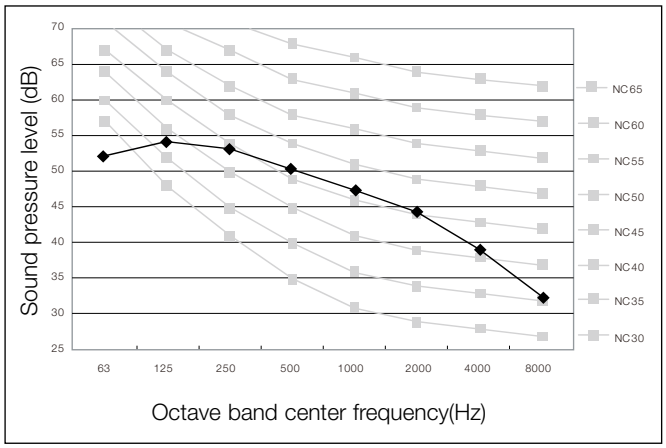
(19) RC125PHXGA



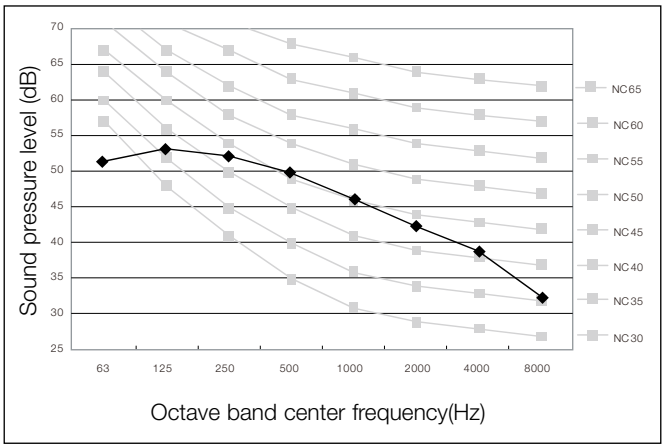
(20) RC140DHXEB



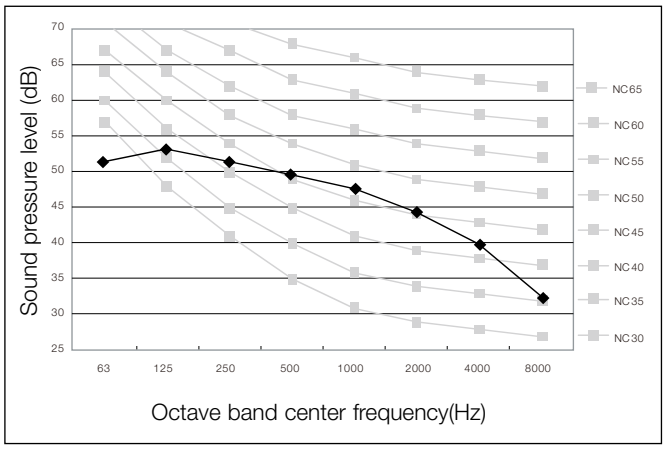
(21) RC140DHXGA



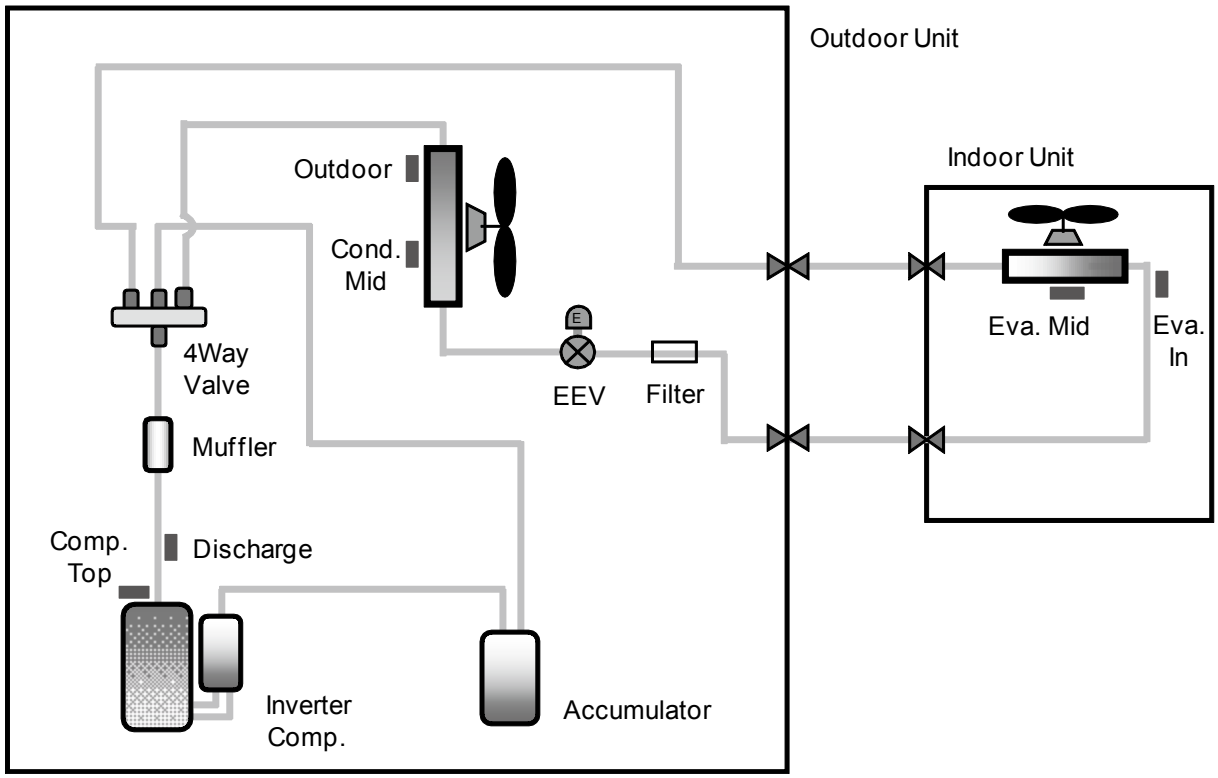
(22) RC140PHXEA



(23) RC140PHXGA



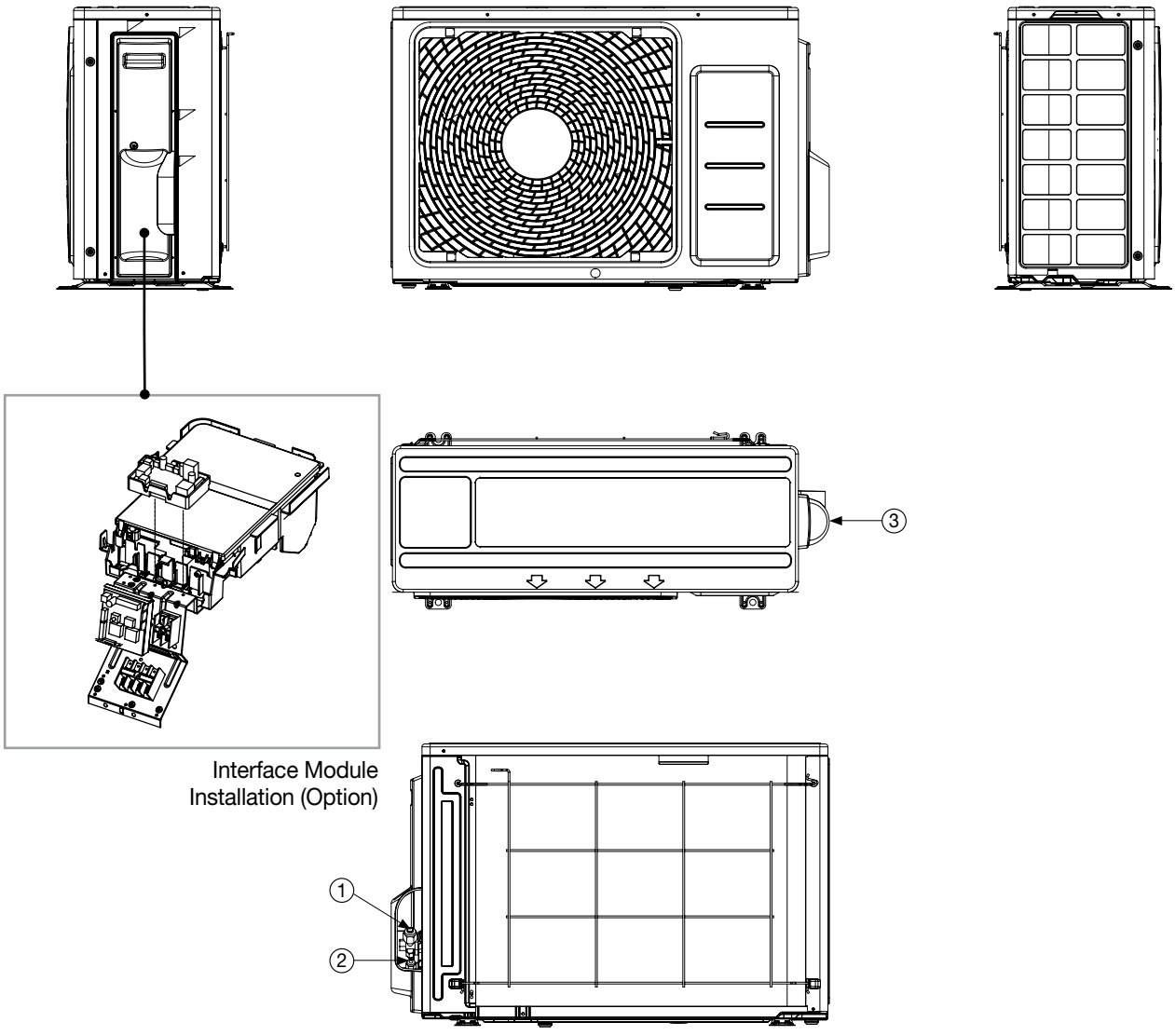
9-4. Cycle diagram



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

9-5. Dimensional drawing

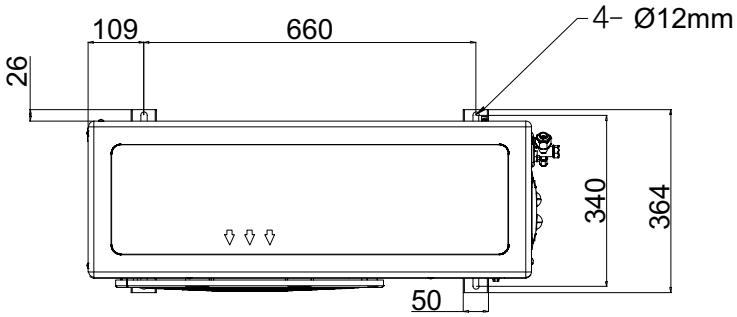
1) AC026/035/052FCADEH/EU, AC052FCASEH/EU

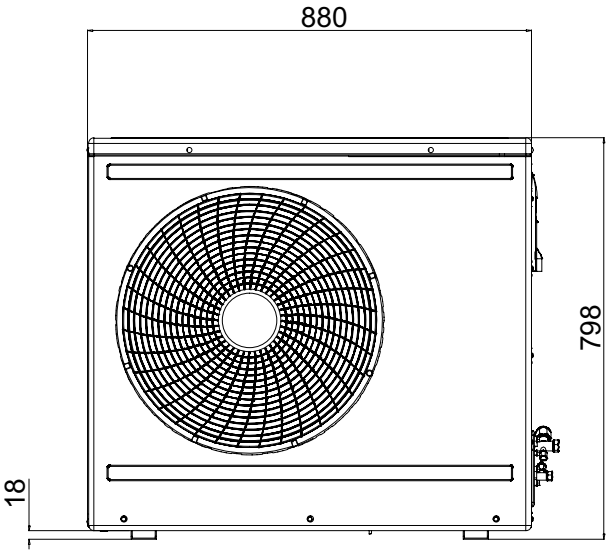


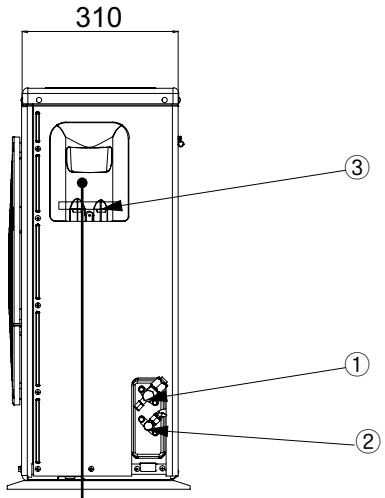
No.	Name		Description		
			2.6kW	3.5kW	5.2kW
①	Gas Ref. Pipe	Ø, mm (inch)	9.52 (3/8)		12.70 (1/2)
②	Liquid Ref. Pipe	Ø, mm (inch)	6.35 (1/4)		6.35 (1/4)
③	Condensate Drain Holes	Ø, mm	20 x 1		
④	Power & Communication Wiring Holes	Ø, mm	-		

9-5. Dimensional drawing

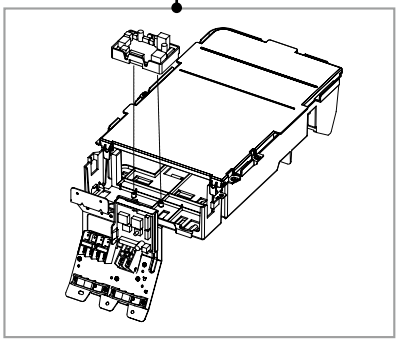
2) AC060/071FCADEH/EU, AC071FCAPEH/EU





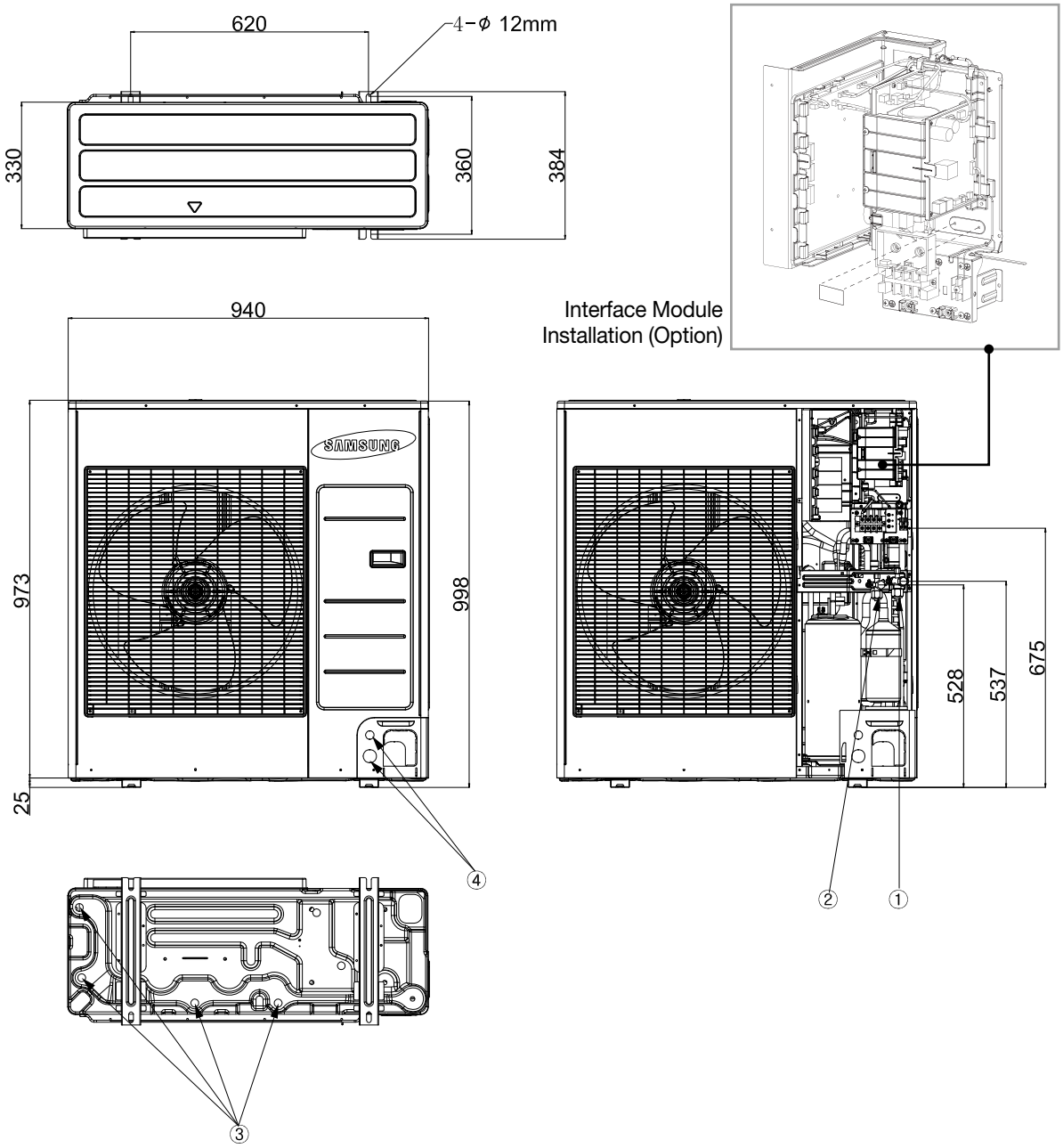


Interface Module
Installation (Option)



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

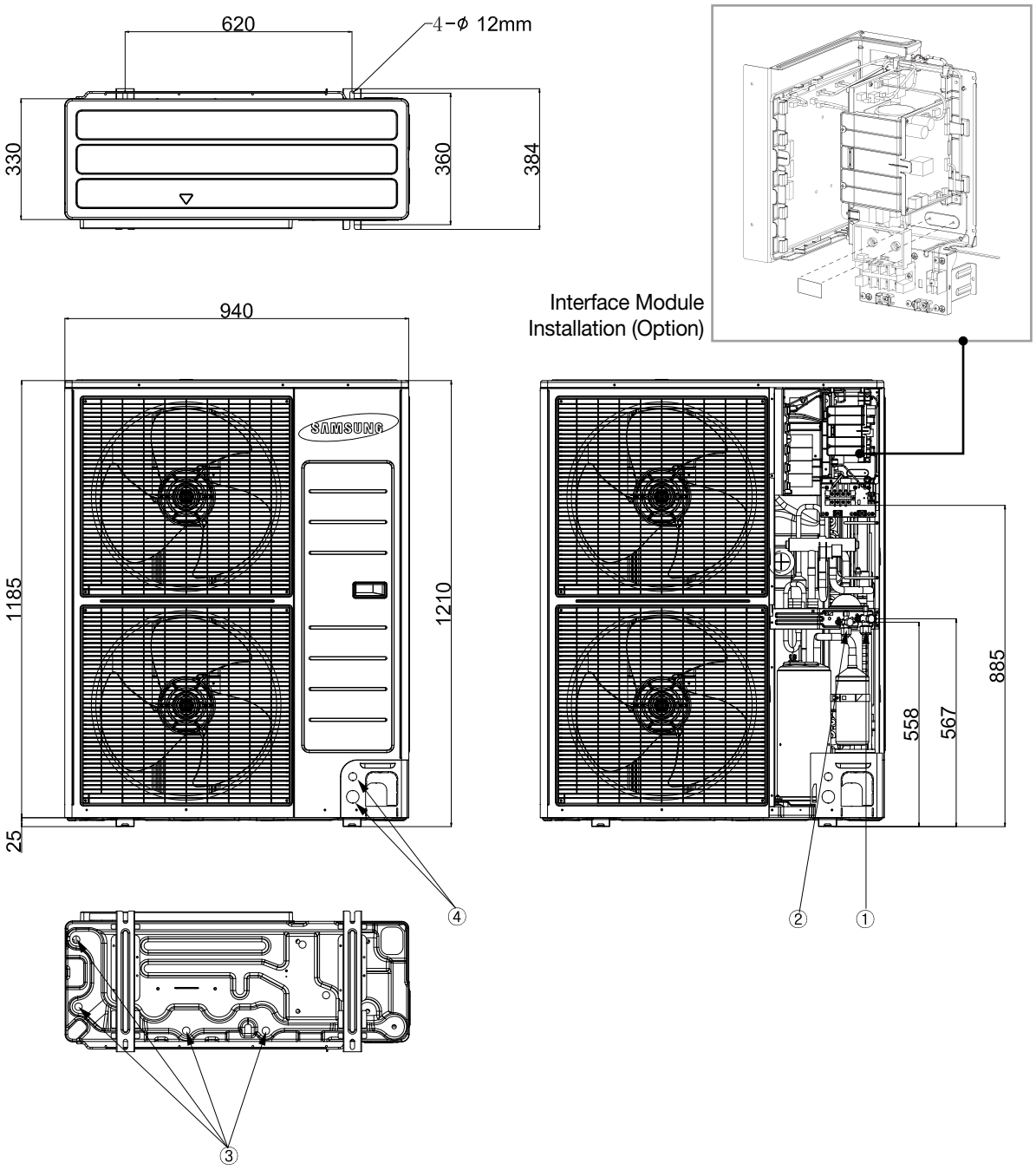
3) AC090FCADEH/EU, AC090FCAPEH/EU, AC100FCADEH/EU, AC100FCADGH/EU, AC090FCASEH/EU, AC100FCASEH/EU



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

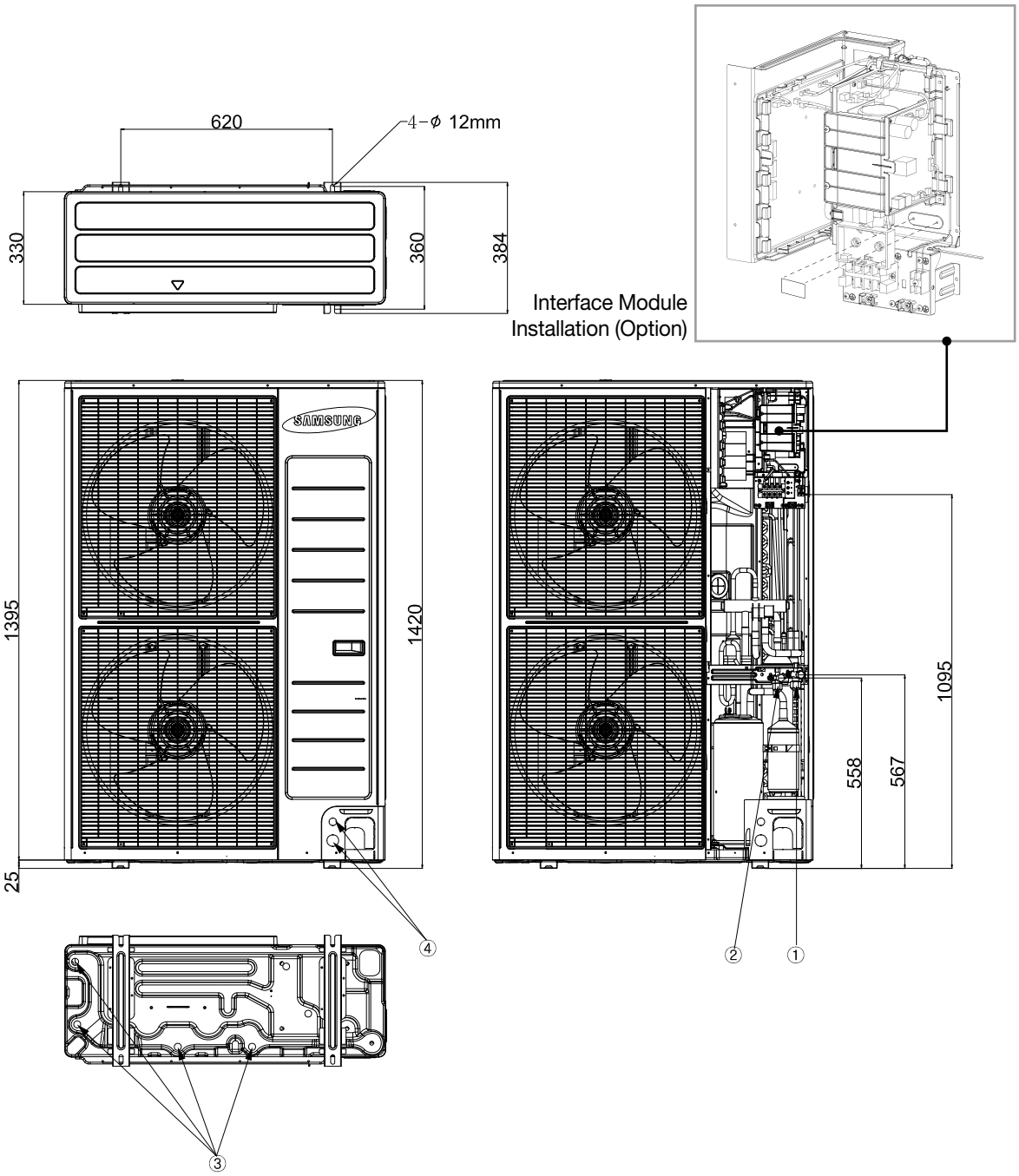
9-5. Dimensional drawing

4) AC100FCAPEH/EU, AC100FCAPGH/EU, RC125PHXE/GA, RC125/140DHXEB



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

7) AC100FCAFEH/EU, RC140PHXE/GA



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

Installation

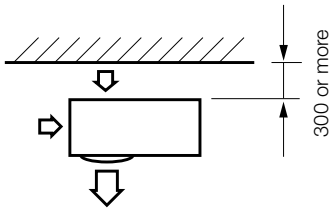
III. Installation

1 Space requirements 180
2 Electric specifications 182
3 Wiring works 183
4 Refrigerant piping works 186
5 Setting an indoor unit address & installation option... 192
6 Error code 199

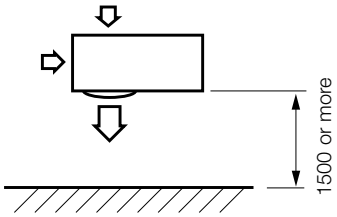
1 Space requirements

1-1. Single installation

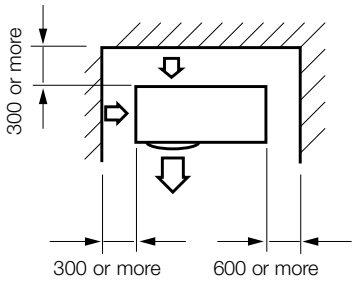
(Unit: mm)



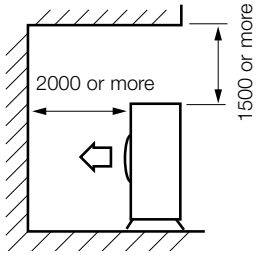
❉ When the air outlet is opposite the wall



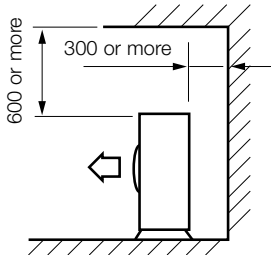
❉ When the air outlet is towards the wall



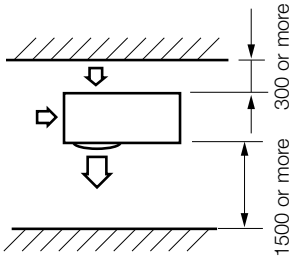
❉ When 3 sides of the outdoor unit are blocked by the wall



❉ The upper part of the outdoor unit and the air outlet is towards the wall



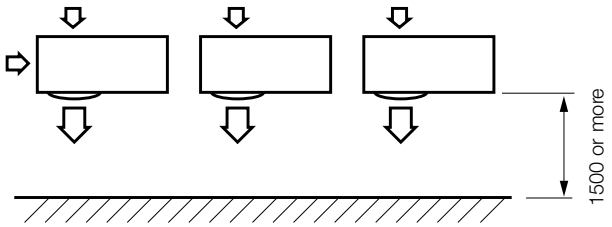
❉ The upper part of the outdoor unit and the air outlet is opposite the wall



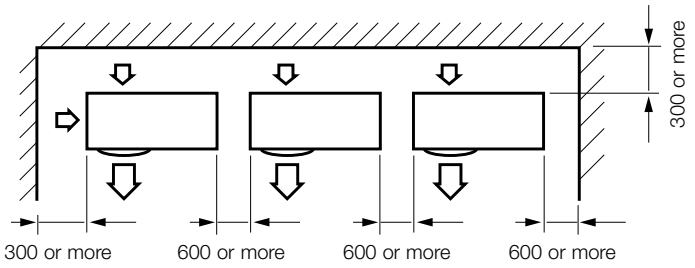
❉ When front and rear side of the outdoor unit is towards the wall

1-2. Group installation

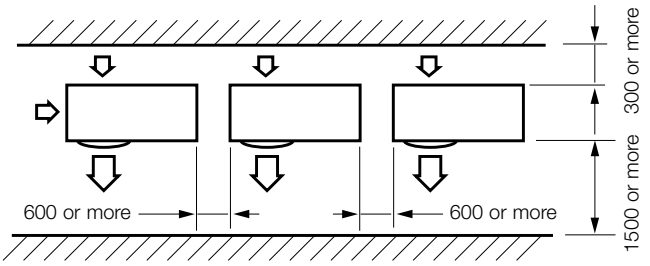
(Unit: mm)



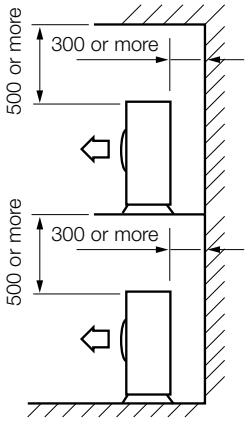
✻ When the air outlet is towards the wall



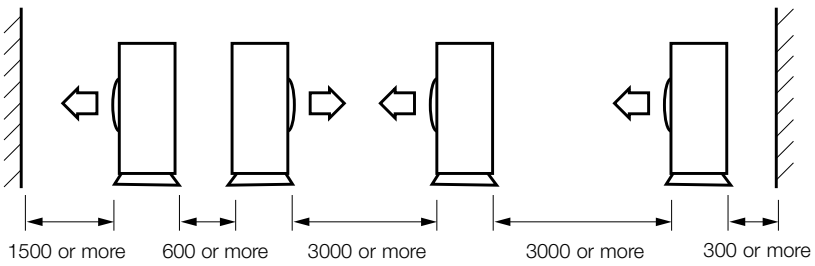
✻ When 3 sides of the outdoor unit are blocked by the wall



✻ When front and rear side of the outdoor unit is towards the wall



✻ The upper part of the outdoor unit and the air outlet is towards the wall



✻ When front and rear side of the outdoor unit is towards the wall

☑ *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 Type	Model		Outdoor Units					
			Rated		Voltage Range		Power Supply	
	Indoor Unit	Outdoor Unit	Hz	Volts	Min.	Max.	MCA	MFA
Slim 1way Cassette	AC026FB1DEH/EU	AC026FCADEH/EU	50	220~240	198	264	10.30	12.50
	AC035FB1DEH/EU	AC035FCADEH/EU	50	220~240	198	264	10.30	12.50
Mini 4Way Cassette S	AC026FBNDEH/EU	AC026FCADEH/EU	50	220~240	198	264	10.30	12.50
	AC035FBNDEH/EU	AC035FCADEH/EU	50	220~240	198	264	10.30	12.50
	AC052FBNDEH/EU	AC052FCADEH/EU	50	220~240	198	264	10.80	13.13
	AC060FBNDEH/EU	AC060FCADEH/EU	50	220~240	198	264	20.30	25.00
	AC071FBNDEH/EU	AC071FCADEH/EU	50	220~240	198	264	20.30	25.00
4Way Cassette S	AC052FB4DEH/EU	AC052FCADEH/EU	50	220~240	198	264	10.80	13.13
	AC071FB4DEH/EU	AC071FCADEH/EU	50	220~240	198	264	20.30	25.00
	AC071FB4PEH/EU	AC071FCAPEH/EU	50	220~240	198	264	20.30	25.00
	AC090FB4DEH/EU	AC090FCADEH/EU	50	220~240	198	264	24.70	30.00
	AC090FB4PEH/EU	AC090FCAPEH/EU	50	220~240	198	264	25.00	30.00
	AC100FB4DEH/EU	AC100FCADEH/EU	50	220~240	198	264	24.70	30.00
		AC100FCADGH/EU	50	380~415	342	456.5	12.70	15.00
	AC100FB4PEH/EU	AC100FCAPEH/EU	50	220~240	198	264	25.00	30.00
		AC100FCAPGH/EU	50	380~415	342	456.5	13.00	15.00
	AC100FB4FEH/EU	AC100FCAFEH/EU	50	220~240	198	264	25.00	30.00
	NS1254DXEA	RC125DHXEB	50	220~240	198	264	25.00	30.00
		RC125DHXGA	50	380~415	342	456.5	13.00	15.00
	NS1254PXEA	RC125PHXEA	50	220~240	198	264	25.00	30.00
		RC125PHXGA	50	380~415	342	456.5	13.00	15.00
	NS1404DXEA	RC140DHXEB	50	220~240	198	264	25.00	30.00
		RC140DHXGA	50	380~415	342	456.5	13.00	15.00
	NS1404PXEA	RC140PHXEA	50	220~240	198	264	33.00	40.00
		RC140PHXGA	50	380~415	342	456.5	13.00	15.00
Slim Duct	AC035FBLDEH/EU	AC035FCADEH/EU	50	220~240	198	264	10.30	12.50
	AC052FBLDEH/EU	AC052FCADEH/EU	50	220~240	198	264	10.80	13.13
	AC071FBLDEH/EU	AC071FCADEH/EU	50	220~240	198	264	20.30	25.00
MSP Duct	AC052FBMDEH/EU	AC052FCADEH/EU	50	220~240	198	264	10.80	13.13
	AC071FBMDEH/EU	AC071FCADEH/EU	50	220~240	198	264	20.30	25.00
	AC090FBMDEH/EU	AC090FCADEH/EU	50	220~240	198	264	24.70	30.00
	AC100FBMDEH/EU	AC100FCADEH/EU	50	220~240	198	264	25.00	30.00
		AC100FCADGH/EU	50	220~240	198	264	13.50	15.00
	NS125SDXEA	RC125DHXEB	50	220~240	198	264	26.00	30.00
		RC125DHXGA	50	380~415	342	456.5	14.00	15.40
	NS140SDXEA	RC140DHXEB	50	220~240	198	264	26.00	30.00
		RC140DHXGA	50	380~415	342	456.5	14.00	15.40
	AC052FBMSEH/EU	AC052FCASEH/EU	50	220~240	198	264	12.15	13.40
	AC071FBMSEH/EU	AC071FCASEH/EU	50	220~240	198	264	21.65	25.00
	AC090FBMSEH/EU	AC090FCASEH/EU	50	220~240	198	264	23.50	27.50
	AC100FBMSEH/EU	AC100FCASEH/EU	50	220~240	198	264	25.00	30.00
Console	AC026FBJDEH/EU	AC026FCADEH/EU	50	220~240	198	264	10.30	12.50
	AC035FBJDEH/EU	AC035FCADEH/EU	50	220~240	198	264	10.30	12.50
	AC052FBJDEH/EU	AC052FCADEH/EU	50	220~240	198	264	10.80	13.13
Ceiling	AC052FBCDEH/EU	AC052FCADEH/EU	50	220~240	198	264	10.80	13.13
	AC071FBCDEH/EU	AC071FCADEH/EU	50	220~240	198	264	20.30	25.00
Neo-Forte	AC026FBRDEH/EU	AC026FCADEH/EU	50	220~240	198	264	10.30	12.50
	AC035FBRDEH/EU	AC035FCADEH/EU	50	220~240	198	264	10.30	12.50
	AC052FBRDEH/EU	AC052FCADEH/EU	50	220~240	198	264	10.80	13.13
	AC071FBRDEH/EU	AC060FCADEH/EU	50	220~240	198	264	20.30	25.00

※ 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

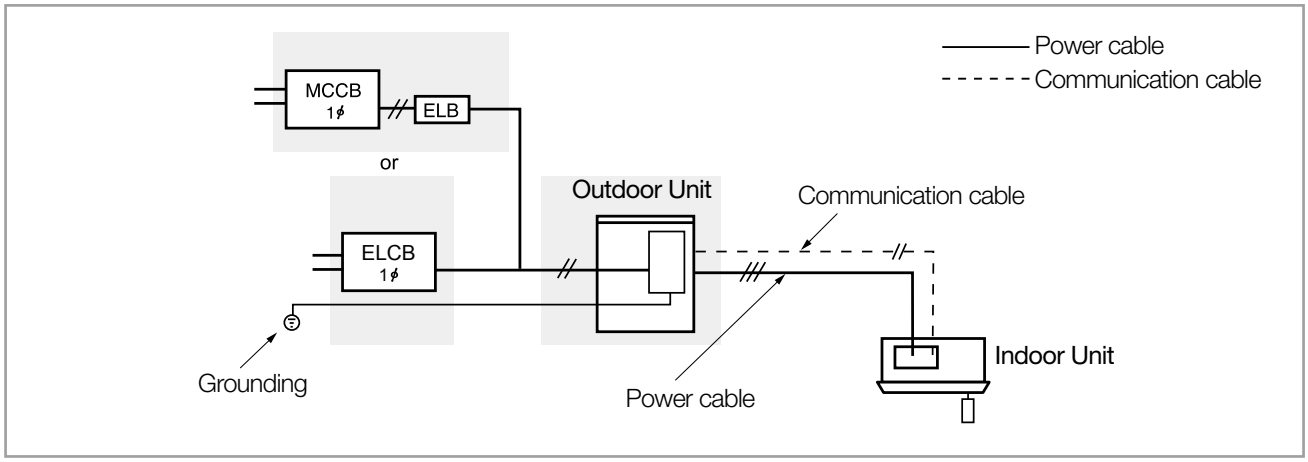
➘ **Two electronic cables must be connected to the outdoor unit.**

- 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.

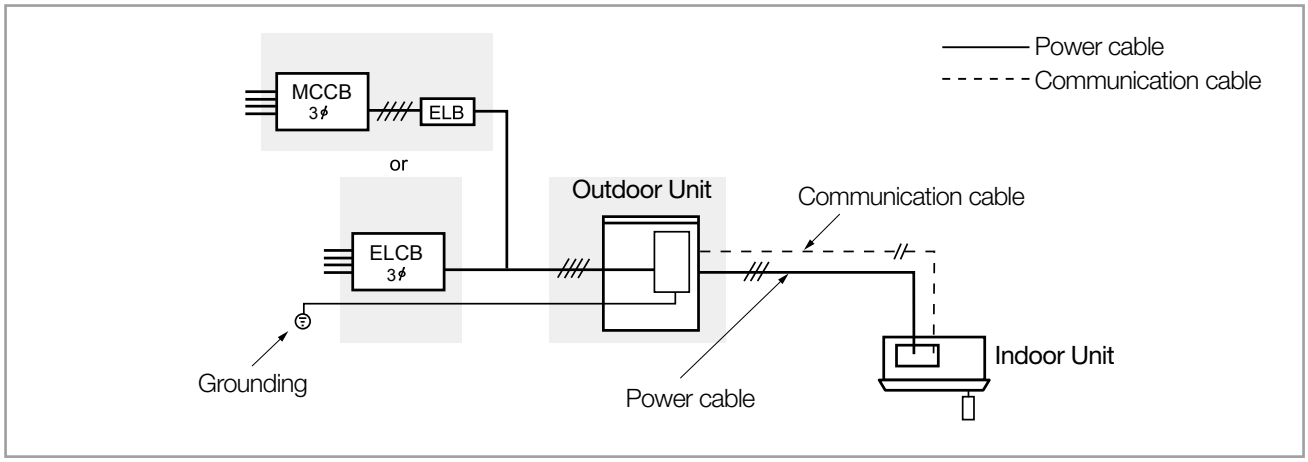
☑ *Caution*

- ◆ 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

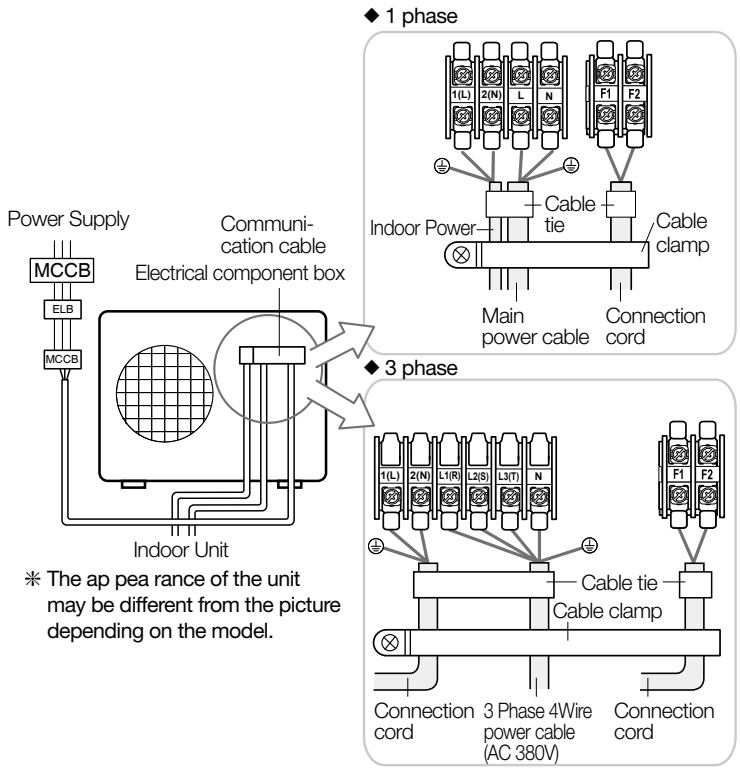


2) When using ELB for 3 phase



✳ 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

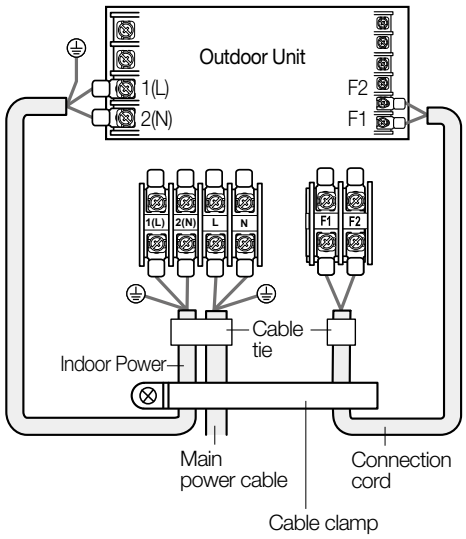


☑ *Caution*

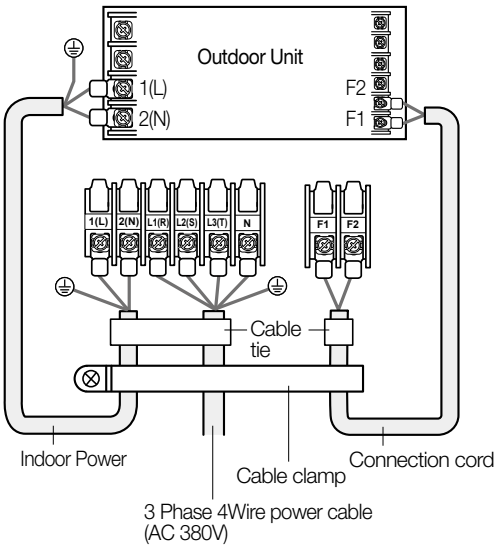
- ◆ You should connect the power cable into the power cable terminal and fasten it with a clamp.
- ◆ The unbalanced power must be maintained within 2% of supply rating.
  - If the power is unbalanced greatly, it may shorten the life of the condenser. If the unbalanced power is exceeded over 4% of supply rating, the indoor unit is protected, stopped and the error mode indicates.
- ◆ To protect the product from water and possible shock, you should keep the power cable and the connection cord of the indoor and outdoor units within ducts. (with appropriate IP rating and material selection for your application)
- ◆ Ensure that main supply connection is made through a switch that disconnects all poles, with contact gap of a least 3 mm.
- ◆ Devices disconnected from the power supply should be completely disconnected in the condition of over voltage category.
- ◆ Keep distances of 50mm or more between power cable and communication cable.

3-3. Wiring diagram of connection cord

◆ 1 phase



◆ 3 phase



☑ *Note*

◆ Lay the electrical wiring so that the front cover does not rise up when doing wiring work and attach the front cover securely.

◆ Ground wire for the indoor unit and outdoor unit connection cable must be clamped to a soft copper tin-plated eyelet terminal with M4 screw hole(NOT SUPPLIED WITH UNIT ACCESSORIES).

4-1. Piping specifications

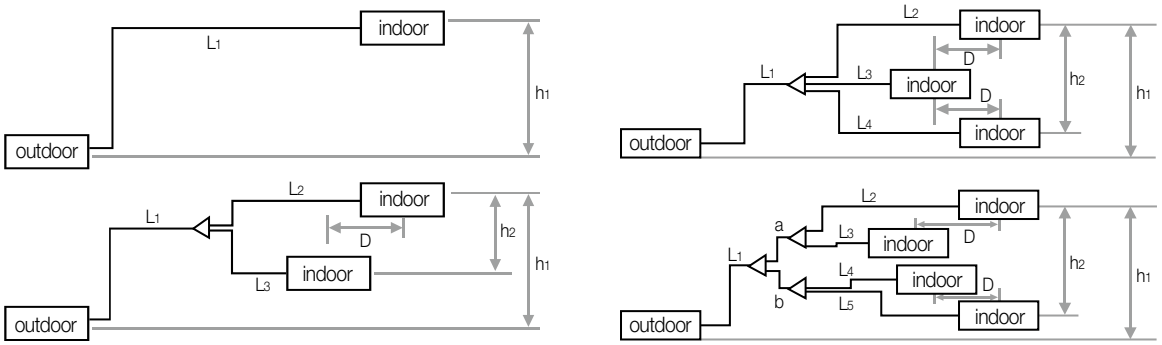
Product Type	Model		Refrigerant Piping Works						
			Pipe Size (mm/inch)		Installation Limitation (m)		Refrigerant	Additional Refrigerant	
	Indoor Unit	Outdoor Unit	Liquid	Gas	Max. Length	Max. Height	Factory Charging (g)	Chargeless (m)	Additional Ref. Amount (g/m)
Slim 1way Cassette	AC026FB1DEH/EU	AC026FCADEH/EU	6.35 (1/4)	9.52 (3/8)	20	15	950	20	0
	AC035FB1DEH/EU	AC035FCADEH/EU	6.35 (1/4)	9.52 (3/8)	20	15	950	20	0
Mini 4Way Cassette	AC026FBNDEH/EU	AC026FCADEH/EU	6.35 (1/4)	9.52 (3/8)	20	15	950	20	0
	AC035FBNDEH/EU	AC035FCADEH/EU	6.35 (1/4)	9.52 (3/8)	20	15	950	20	0
	AC052FBNDEH/EU	AC052FCADEH/EU	6.35 (1/4)	12.7 (1/2)	30	20	1,400	5	10
	AC060FBNDEH/EU	AC060FCADEH/EU	6.35 (1/4)	15.88 (5/8)	50	30	1,800	5	25
	AC071FBNDEH/EU	AC071FCADEH/EU	6.35 (1/4)	15.88 (5/8)	50	30	1,800	5	25
4Way Cassette S	AC052FB4DEH/EU	AC052FCADEH/EU	6.35 (1/4)	12.7 (1/2)	30	20	1,400	5	10
	AC071FB4DEH/EU	AC071FCADEH/EU	6.35 (1/4)	15.88 (5/8)	50	30	1,800	5	25
	AC071FB4PEH/EU	AC071FCAPEH/EU	6.35 (1/4)	15.88 (5/8)	50	30	1,800	5	25
	AC090FB4DEH/EU	AC090FCADEH/EU	9.52 (3/8)	15.88 (5/8)	50	30	3,000	30	*1)
	AC090FB4PEH/EU	AC090FCAPEH/EU	9.52 (3/8)	15.88 (5/8)	50	30	3,000	30	*1)
	AC100FB4DEH/EU	AC100FCADEH/EU	9.52 (3/8)	15.88 (5/8)	50	30	3,000	30	*1)
		AC100FCADGH/EU	9.52 (3/8)	15.88 (5/8)	50	30	3,100	30	*1)
	AC100FB4PEH/EU	AC100FCAPEH/EU	9.52 (3/8)	15.88 (5/8)	75	30	3,400	30	*1)
		AC100FCAPGH/EU	9.52 (3/8)	15.88 (5/8)	75	30	3,400	30	*1)
	AC100FB4FEH/EU	AC100FCAFEH/EU	9.52 (3/8)	15.88 (5/8)	75	30	3,800	30	*1)
	NS1254DXEA	RC125DHXEB	9.52 (3/8)	15.88 (5/8)	75	30	2,900	30	*1)
		RC125DHXGA	9.52 (3/8)	15.88 (5/8)	75	30	2,900	30	*1)
	NS1254PXEA	RC125PHXEA	9.52 (3/8)	15.88 (5/8)	75	30	3,400	30	*1)
		RC125PHXGA	9.52 (3/8)	15.88 (5/8)	75	30	3,400	30	*1)
	NS1404DXEA	RC140DHXEB	9.52 (3/8)	15.88 (5/8)	75	30	3,400	30	*1)
		RC140DHXGA	9.52 (3/8)	15.88 (5/8)	75	30	3,400	30	*1)
	NS1404PXEA	RC140PHXEA	9.52 (3/8)	15.88 (5/8)	75	30	3,800	30	*1)
		RC140PHXGA	9.52 (3/8)	15.88 (5/8)	75	30	3,800	30	*1)
Slim Duct	AC035FBLDEH/EU	AC035FCADEH/EU	6.35 (1/4)	9.52 (3/8)	20	15	950	20	0
	AC052FBLDEH/EU	AC052FCADEH/EU	6.35 (1/4)	12.7 (1/2)	30	20	1,400	5	10
	AC071FBLDEH/EU	AC071FCADEH/EU	6.35 (1/4)	15.88 (5/8)	50	30	1,800	5	25
MSP Duct	AC052FBMDEH/EU	AC052FCADEH/EU	6.35 (1/4)	12.7 (1/2)	30	20	1,400	5	10
	AC071FBMDEH/EU	AC071FCADEH/EU	6.35 (1/4)	15.88 (5/8)	50	30	1,800	5	25
	AC090FBMDEH/EU	AC090FCADEH/EU	9.52 (3/8)	15.88 (5/8)	50	30	3,000	30	*1)
	AC100FBMDEH/EU	AC100FCADEH/EU	9.52 (3/8)	15.88 (5/8)	50	30	3,000	30	*1)
		AC100FCADGH/EU	9.52 (3/8)	15.88 (5/8)	50	30	3,100	30	*1)
	NS125SDXEA	RC125DHXEB	9.52 (3/8)	15.88 (5/8)	75	30	2,900	30	*1)
		RC125DHXGA	9.52 (3/8)	15.88 (5/8)	75	30	2,900	30	*1)
	NS140SDXEA	RC140DHXEB	9.52 (3/8)	15.88 (5/8)	75	30	3,400	30	*1)
		RC140DHXGA	9.52 (3/8)	15.88 (5/8)	75	30	3,400	30	*1)
	AC052FBMSEH/EU	AC052FCASEH/EU	6.35 (1/4)	12.7 (1/2)	30	20	1,300	5	15
	AC071FBMSEH/EU	AC071FCASEH/EU	6.35 (1/4)	15.88 (5/8)	30	20	1,350	5	20
	AC090FBMSEH/EU	AC090FCASEH/EU	9.52 (3/8)	15.88 (5/8)	50	30	2,500	5	40
	AC100FBMSEH/EU	AC100FCASEH/EU	9.52 (3/8)	15.88 (5/8)	50	30	2,500	5	40
Console	AC026FBJDEH/EU	AC026FCADEH/EU	6.35 (1/4)	9.52 (3/8)	20	15	950	20	0
	AC035FBJDEH/EU	AC035FCADEH/EU	6.35 (1/4)	9.52 (3/8)	20	15	950	20	0
	AC052FBJDEH/EU	AC052FCADEH/EU	6.35 (1/4)	12.7 (1/2)	50	30	1,450	5	30
Ceiling	AC052FBCDEH/EU	AC052FCADEH/EU	6.35 (1/4)	12.7 (1/2)	30	20	1,400	5	10
	AC071FBCDEH/EU	AC071FCADEH/EU	6.35 (1/4)	15.88 (5/8)	50	30	1,800	5	25
Neo-Forte	AC026FBRDEH/EU	AC026FCADEH/EU	6.35 (1/4)	9.52 (3/8)	20	15	950	20	0
	AC035FBRDEH/EU	AC035FCADEH/EU	6.35 (1/4)	9.52 (3/8)	20	15	950	20	0
	AC052FBRDEH/EU	AC052FCADEH/EU	6.35 (1/4)	12.7 (1/2)	30	20	1,400	5	10
	AC071FBRDEH/EU	AC060FCADEH/EU	6.35 (1/4)	15.88 (5/8)	50	30	1,800	5	25

*1) Additional Refrigerant Amount

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

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

4-2. Piping diagram



❉ Use a joint kit that is only for DPM.

Items	Maximum allowable length						
	Single installation					DPM installation	
Applicable outdoor unit models	AC026FCADEH AC035FCADEH	AC052FCADEH AC052FCASEH AC071FCASEH	AC060FCADEH AC071FCADEH AC071FCAPEH	AC090FCA∗EH AC100FCAD∗H AC100FCASEH RC090∗HXEA RC100DHX∗A RC100SHXEA	AC100FCAP∗H AC100FCAF∗H RC100PHX∗A RC100ZHXEA RC100DHXEH RC125∗HX∗∗ RC140∗HX∗∗ RC155DHXEH RC180DHXGH	AC071FCADEH AC071FCAPEH AC100FCAD∗H RC100DHX∗A	AC100FCAP∗H RC100PHX∗A RC125DHXEB RC125DHXGA RC125PHX∗A RC140DHXEB RC140DHXGA RC140PHX∗A
Total pipe length (L_1+…+Ln+1+a+b)	-	-	-	-	-	50 m	75 m
Main pipe (L_1)	20 m	30 m	50 m	50 m	75 m	30 m	50 m
Max. distance among indoor units (D)	-	-	-	-	-	10 m	10 m
Max. length after branch	-	-	-	-	-	15 m	15 m
Max. height difference between outdoor and indoor units (h1)	15 m	25 m	30 m	±30 m	±30 m	±30 m	±30 m
Max. height difference among indoor units(h2)	-	-	-	-	-	±0.5m	±0.5m
Max Pipe length difference among indoor units after branch [L2-L3 or L2-L4 or L2-L5 or a-b or (a+L2)-(b+L4) or (a+L3)-(b+L5)]	-	-	-	-	-	±5m	±5m

4-3. Insulation

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

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

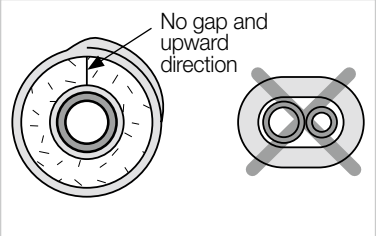
☑ *Note*

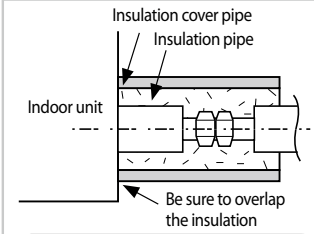
◆ When installing insulation in places and conditions below, use the same insulation that is used for high humidity conditions.
- Geological condition:
  High humidity places such as shoreline, hot spring, near lake or river, and ridge (when the part of the building is covered by earth and sand).
- Operation purpose condition:
  Restaurant ceiling, sauna, swimming pool etc.
- Building construction condition:
  The ceiling frequently exposed to moisture and cooling is not covered.

e.g. The pipe installed at a corridor of a dormitory and studio or near an exit that opens and closes frequently.
The place where the pipe is installed is highly humid due to the lack of ventilation system.

☑ *Caution*

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





☑ *Caution*

◆ Must fit tightly against body without any gap.

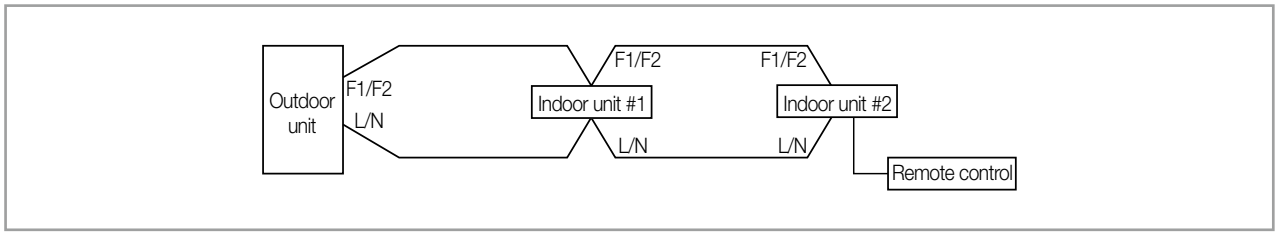
4-4. DPM Installation

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

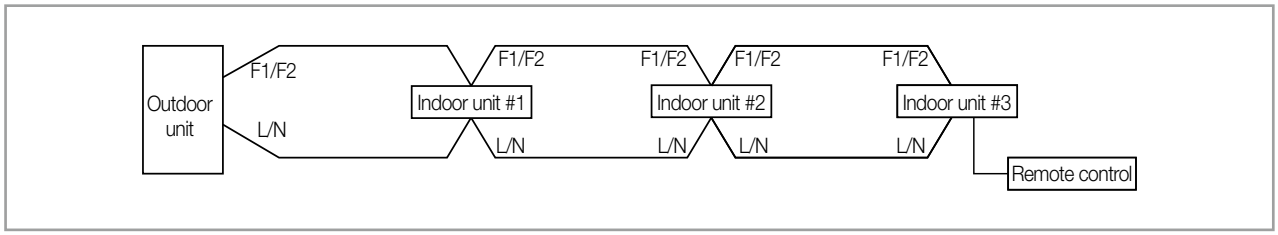
- Two indoor units should be installed in one area which is not divided by a wall.
- The distance between two indoor units should be within a straight-line of 10m.
- After branching, the distance between the piping connected to the two indoor units should be within 1m.
- The height difference between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

2) Connecting communication line and wired remote controller

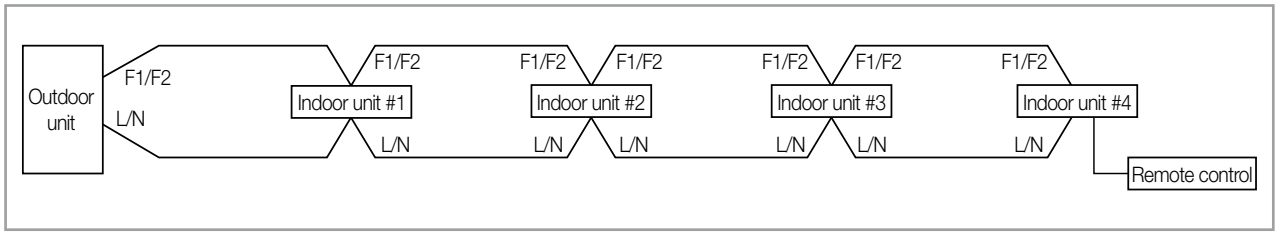
➘ In case of 2 indoor units connection



➘ In case of 3indoor units connection



➘ In case of 4indoor units connection



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

3) Important information regulation regarding the refrigerant used

This product contains fluorinated greenhouse gases covered by the Kyoto Protocol. Do not vent gases into the atmosphere.

CAUTION

- Inform user if system contains 3 kg or more of fluorinated greenhouse gases. In this case, it has to be checked for leakage at least once every 12 months, according to regulation n°842/2006. This activity has to be covered by qualified personnel only. In case situation above (3 kg or more of R-410A), installer (or recognised person which has responsability for final check) has to provide a maintenance book, with all the information recorded according to REGULATION(EC) N° 842/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 17 May 2006 on certain fluorinated greenhouse gases.

This product contains fluorinated greenhouse gases covered by the Kyoto Protocol. Do not vent gases into the atmosphere.

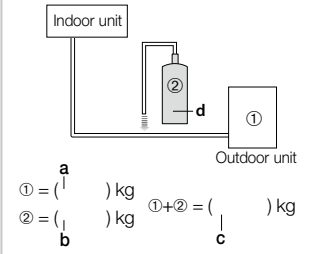
- Please fill in with indelible ink,
  - ① the factory refrigerant charge of the product,
  - ② the additional refrigerant amount charged in the field and
  - ①+② the total refrigerant charge.

on the refrigerant charge label supplied with the product.

Refrigerant type	GWP value
R410A	1975

※ GWP=Global Warming Potential

Contains fluorinated greenhouse gases covered by the Kyoto Protocol.



☑ *Note*

a. Factory refrigerant charge of the product: see unit name plate
b. Additional refrigerant amount charged in the field
(Refer to the above information for the quantity of refrigerant replenishment.)
c. Total refrigerant charge
d. Refrigerant cylinder and manifold for charging

➘ The filled-out label must be adhered in the proximity of the product charging port (e.g. onto the inside of the stop valve cover).

4) How to Calculate the Quantity of Adding Refrigerant

The quantity of additional refrigerant is variable according to the installation situation. Thus, make sure the outdoor unit situation before adding refrigerant. This operation can only be performed by a qualified refrigeration specialist.

Single installation outdoor unit

Model	Interconnection pipe length (m)					
	0~5	5~10	10~20	20~30	30~40	40~50
AC026FCADEH/AC035FCADEH	0	0	0			
AC052FCADEH	0	+50g	+150g	+250g		
AC060FCADEH/AC071FCADEH/AC071FCAPEH	0	+125g	+375g	+625g	+875g	+1125g
AC052FCASEH	0	+75g	+225g	+375g		
AC071FCASEH	0	+100g	+300g	+500g		

Model	Interconnection pipe length (m)					
	0~30	30~40	40~50	50~60	60~70	70~75
AC090FCADEH/AC090FCAPEH/AC100FCAD✳H/ RC090DHXEA/RC090PHXEA/RC100DHX✳A	0	+500g	+1000g			
AC100FCAP✳H/AC100FCAFEH/RC100DHXEH/ RC100PHX✳A/RC100ZHXEA/RC125✳HX✳✳/ RC140✳HX✳✳/RC155DHXEH/RC180DHXGH	0	+500g	+1000g	+1500g	+2000g	+2250g
AC090FCASEH/AC100FCASEH/RC090SHXEA/ RC100SHXEA	+ 40 g/m over 5m					

DPM installation outdoor unit

Model	Diameter of L1, a & b pipe	Installation condition	Amount of additional refrigerant charging
AC071FCADEH/ AC071FCAPEH	Ø 6.35	$L_1+L_2+L_3$	$(L_1-5) \times 30[g] + (L_2+L_3) \times 30[g]$
AC100FCAD✳H/ RC100DHX✳A	Ø 9.52	$L_1+\ldots+L_{n+1} \leq 50$ m	$(L_1+a+b-5) \times 40[g] + (L_2+\ldots+L_{n+1}) \times 30[g]$ If $(L_1+a+b)< 5$m, $(L_2+\ldots+L_{n+1}) \times 30[g]$
AC100FCAP✳H/ RC100PHX✳A/ RC125DHXEB/ RC125DHXGA/ RC125PHX✳A/ RC140DHXEB/ RC140DHXGA/ RC140PHX✳A	Ø 9.52	$L_1+\ldots L_{n+1} \leq 75$m	$(L_1+a+b-5) \times 40[g] + (L_2+\ldots+L_{n+1}) \times 30[g]$ If $(L_1+a+b)< 5$m, $(L_2+\ldots+L_{n+1}) \times 30[g]$

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

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

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

6) 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.

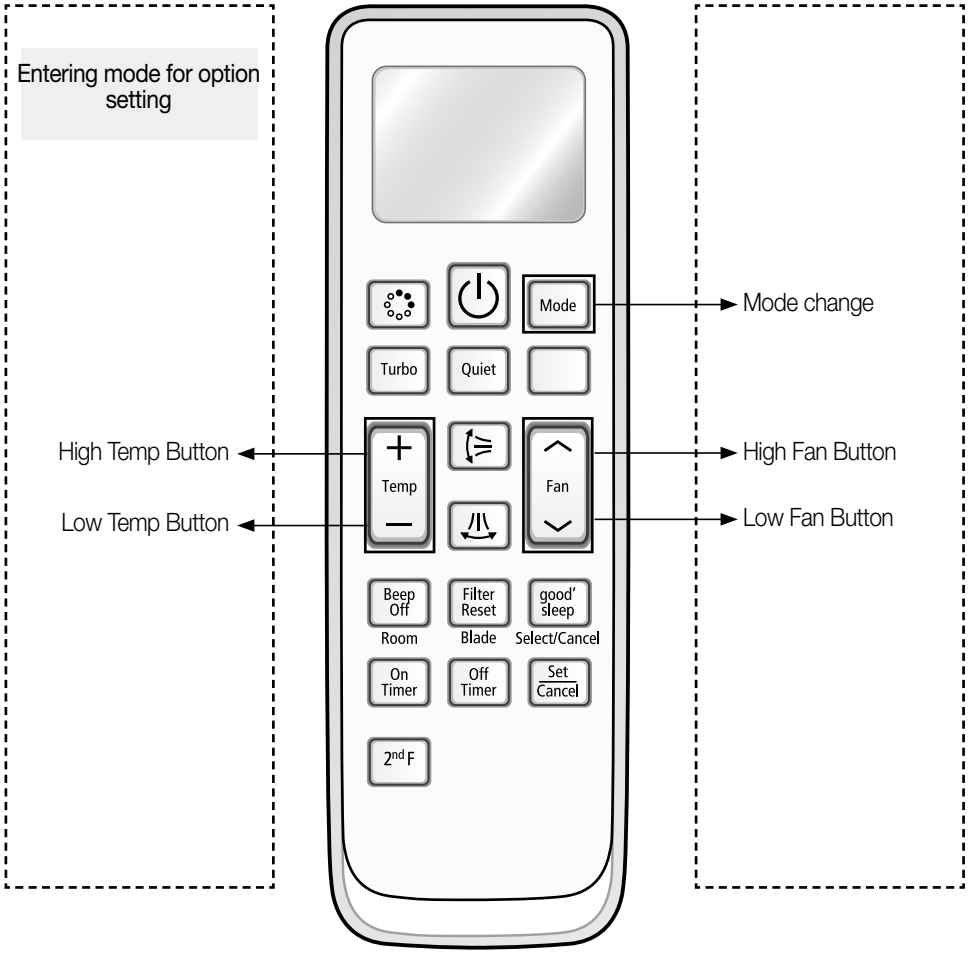
7) Instruction for installation and operation

- 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 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.

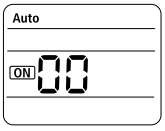
5-1. The procedure of option setting



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

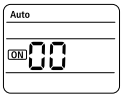
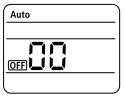
After entering the option setting status, select the option as listed below.

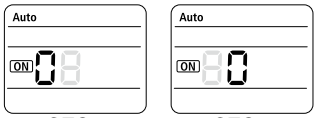
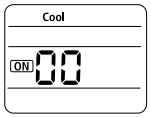
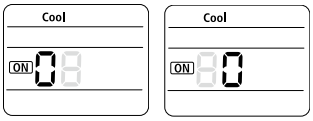
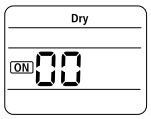
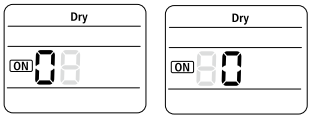
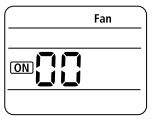
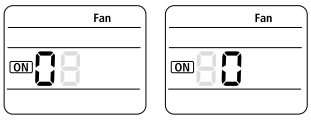
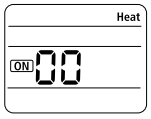
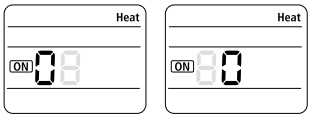
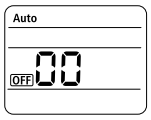
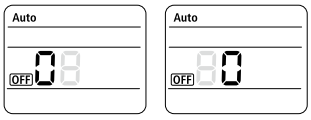
CAUTION

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.

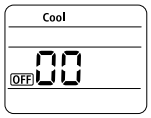
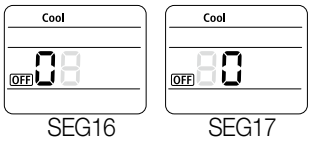
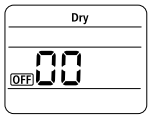
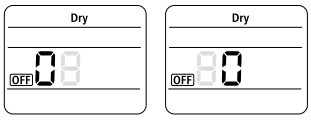
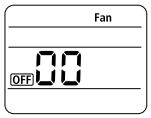
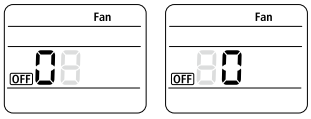
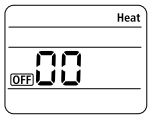
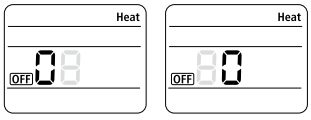
SEG1	SEG2	SEG3	SEG4	SEG5	SEG6	SEG7	SEG8	SEG9	SEG10	SEG11	SEG12
0	X	X	X	X	X	1	X	X	X	X	X
SEG13	SEG14	SEG15	SEG16	SEG17	SEG18	SEG19	SEG20	SEG21	SEG22	SEG23	SEG24
2	X	X	X	X	X	3	X	X	X	X	X

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

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

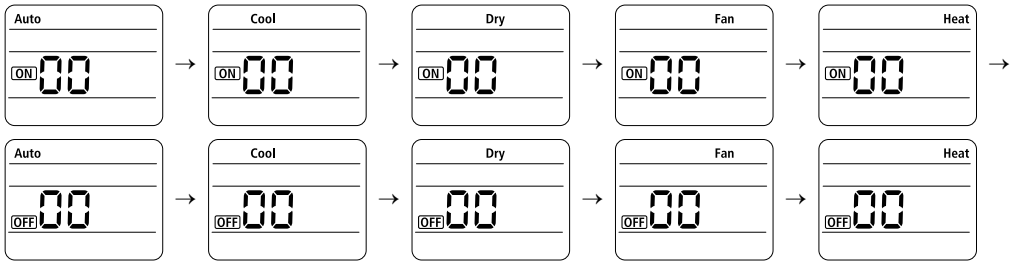
5 Setting an indoor unit address & installation option

5-1. The procedure of option setting

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

Step 3. Check the option you have set

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



Step 4. Input option

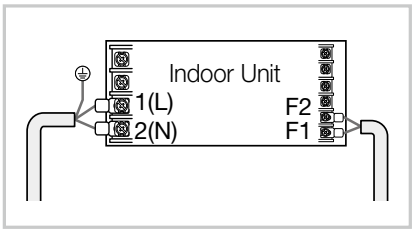
Press operation button with the direction of remote control for set.
For the correct option setting, you must input the option twice.

Step 5. Check operation

①. Reset the indoor unit by pressing the RESET button of indoor unit or outdoor unit.
②. Take the batteries out of the remote controller and insert them again and then press the operation button.

5-2. 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

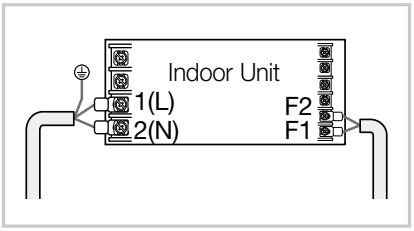
Option	SEG1		SEG2		SEG3		SEG4		SEG5		SEG6	
Explanation	PAGE		MODE		Setting Main address		100-digit of indoor unit address		10-digit of indoor unit		The unit digit of an indoor unit	
Remote Controller Display			Auto ON A		Auto ON 8		Cool ON 8		Cool ON 8		Dry ON 8	
Indication and Details	Indication	Details	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					Fan ON 8				Heat ON 8		Heat ON 8	
Indication and Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details
	1				0	No RMC address			RMC1	0~2	RMC2	0~F
					1	RMC address setting mode						

CAUTION

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

5-3. Setting an indoor unit installation option (suitable for the condition of each installation location)

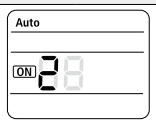
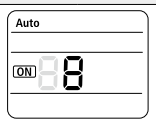
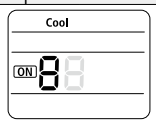
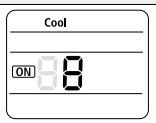
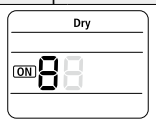
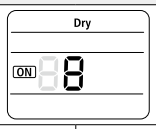
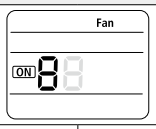
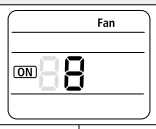
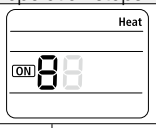
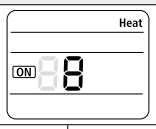
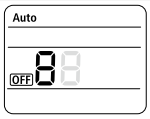
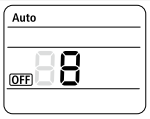
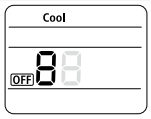
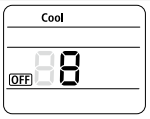
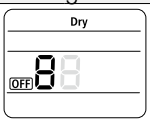


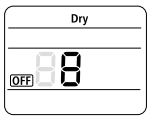
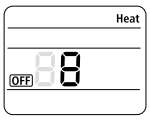
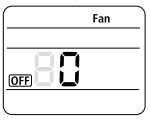
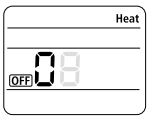
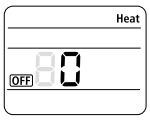
1) Check whether power is supplied or not.
   - When the indoor unit is not plugged in, there should be additional power supply in the indoor unit.
2) The panel(display) should be connected to an indoor unit to receive option.
3) Set the installation option according to the installation condition of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

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

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

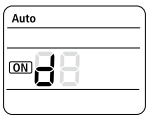
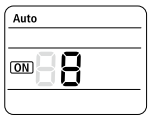
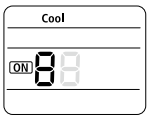
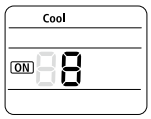
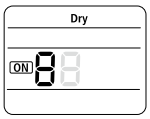
Option No. : 02XXXX-1XXXXX-2XXXXX-3XXXXX

Option	SEG1		SEG2		SEG3		SEG4		SEG5		SEG6	
Explanation	PAGE		MODE		RESERVED		Use of external temperature sensor		Use of central control		RPM setting compensation	
Remote Controller Display												
Indication and Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	0. Not used 1. High ceiling mode 2. High ceiling kit 3. Low noise operation mode	
	0		2				0	Disuse	0	Disuse		
							1	Use	1	Use		
Option	SEG7		SEG8		SEG9		SEG10		SEG11		SEG12	
Explanation	PAGE		Use of drain pump		Use of hot water heater		Use of electronic heater		Opening the electronic expansion valve of an indoor unit when heating operation stops.		Master / Slave	
Remote Controller Display												
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	Mixed operation control2/Use buzzer		
			2	OFF Control					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.		Motion detect sensor		
Remote Controller Display											
Indication and Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	0. No Use (Factory Setting) 1. Standard Mode/ Auto Set OFF 30 Min. 2. Standard Mode/ Auto Set OFF 60 Min. 3. Standard Mode/ Auto Set OFF 120 Min. 4. Standard Mode/ Auto Set OFF 180 Min. 5. Premium Mode/ Auto Set OFF 30 Min. 6. Premium Mode/ Auto Set OFF 60 Min. 7. Premium Mode/ Auto Set OFF 120 Min. 8. Premium Mode/ Auto Set OFF 180 Min.	Indication	Details
	3		0 or 1	channel 1	0	Disuse	0	150 step			
			2	channel 2	1	2°C					
			3	channel 3	2	5°C					
			4	channel 4			1	0 step			

5-4. 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

6-1. Error code

Code	Meaning	Remarks
E201	Unit quantity miss matching between indoor and outdoor.	Check indoor quantity setting in outdoor
E202	Abnormal state, no communication between Indoor and Outdoor Main PCB	Check electrical connection and setting
E203	1min. Time out of communcation error(Main Inverter)	Check electrical connection and setting
E221	Outdoor temp sensor error	Check Outdoor sensor Open/Short
E231	Cond. temp sensor error	Check Cond. sensor Open/Short
E251	Discharge temp sensor error	Check Discharge sensor Open/Short
E320	OLP Sensor Error	Check OLP sensor Open/Short
E403	Detection of Outdoor Freezing when Comp. Stop	Check Outdoor Cond.
E404	Protection of Outdoor Overload when Comp. Stop	Check Comp. when it start
E416	Discharge temperature of a compressor in an outdoor unit is overheated.	
E440	Heating operation is not available since the outdoor air temperature is over 30°C.	Heating
E441	Cooling operation is not available since the outdoor air temperature is lower than -5°C.	Cooling
E458	Outdoor unit BLDC Fan 1 or Fan 2 error	FAN1 error
E475		FAN2 error
E461	Comp. Starting error	
E462	Primary Current Trip error	
E463	Over current trip / PFC over current error	Check OLP sensor
E464	IPM(IGBT Module) Over Current(O.C)	
E465	Comp. Over load error	
E466	DC-Link voltage under/over error	Check AC Power or DC_Link voltage
E467	Comp. wire missing error	Check Comp. wire
E468	Current sensor error	Check Outdoor Inverter PBA
E471	Outdoor EEPROM error	Check Outdoor EEPROM date
E474	IPM(IGBT Module) or PFCM Temperature sensor Error	Check Outdoor Inverter PBA
E484	PFC Overload Error	Check Outdoor Inverter PBA
E500	IPM is over heated.	Check Outdoor Inverter PBA
E554	GAS Leak error	Check indoor and outdoor unit model
E556	Capacity miss match between indoor and outdoor	Check indoor and outdoor unit model

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