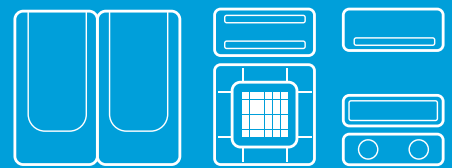


SINGLE

Technical Data Book

SINGLE for Europe (Indoor Units)



Product : Slim 1Way Cassette

4Way Cassette S (600x600)

4Way Cassette S

Maldives

Console

History

Version	Modification	Date	Remark
Ver.1.2	Add Note information in Specification regarding EU F-Gas regulation	15.06.16	
Ver.1.3	Modification for error in Specification(Maldives) : AC060~ → AC071~	15.06.29	
Ver.1.4	Modification for error in Capacity Table(4Way CST S) : All Model	15.07.08	
Ver.1.5	Modification for error in Capacity Table(Maldives) : AC060~~>AC071~	15.07.10	
Ver.1.6	Add DPM information	15.08.07	
Ver.1.7	Modification for operation range and line-up	16.01.08	
Ver.1.8	Add tCO2e data (Specifications)	16.12.09	
Ver.1.9	Modify Pannel Spec of 4Way Cassette(600x600) (Model name, Net/Shipping Weight&Size)	17.03.16	



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Products

I. Products

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1 Nomenclature

1-1. Indoor unit

Old Model Name



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
H	2014

④ Product Type

B	Indoor Unit
C	Outdoor Unit

⑤ Product Notation

1	Slim 1 way cassette
N	4 way cassette (600x600)
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 Nomenclature

1-2. Outdoor Unit

Old Model Name



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
H	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

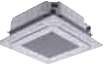
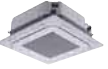
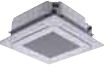
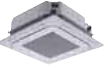
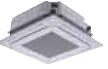
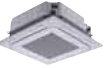
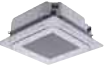
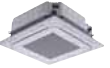
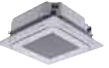
E	1Ø, 220~240V, 50Hz
G	3Ø, 380~415V, 50Hz

⑧ Mode

H	Heat Pump
---	-----------

2 Line-up

2-1. Indoor Unit

Capacity Type	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									
4Way Cassette (600x600)									
4Way cassette S (Deluxe)									
4Way cassette S (Premium)									
4Way cassette S (Flagship)									
Maldives									

2-2. Outdoor Unit

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

Type		TypeCapacity	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)

DPM Allowable Combination

Product	Outdoor unit	2 IDUs connection	3 IDUs connection	4 IDUs connection
		Indoor unit	Indoor unit	Indoor unit
Duct S (Delux)	AC071HCADKH	AC035HBMDKH×2	-	-
	AC100HCAD*H	AC052HBMDKH×2	AC035HBMDKH×3	-
	AC120HCAD*H	AC060HBMDKH×2	AC035HBMDKH×3	-
	AC140HCAD*H	AC071HBMDKH×2	AC052HBMDKH×3	AC035HBMDKH×4
4Way Cst / 4Way Cst (600x600)	AC071FCA*EH	AC035FBNDEH×2	-	-
	AC100FCAD*H	AC052FBNDEH×2	AC035FBNDEH×3	-
		AC052FB4DEH×2		
	AC100FCAP*H	AC052FBNDEH×2	AC035FBNDEH×3	-
		AC052FB4DEH×2		
	RC125DHX*A	AC060FBNDEH×2	AC052FBNDEH×3	-
			AC052FB4DEH×3	
	RC125PHX*A	AC060FBNDEH×2	AC052FBNDEH×3	-
			AC052FB4DEH×3	
	RC140DHX**	AC071FBNDEH×2	AC052FBNDEH×3	AC035FBNDEH×4
		AC071FB4DEH×2		
	RC140PHX*A	AC071FBNDEH×2	AC052FBNDEH×3	AC035FBNDEH×4
		AC071FB4DEH×2		

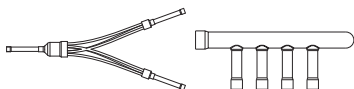
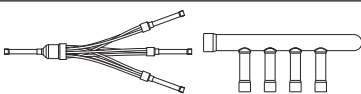
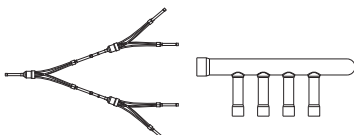
DPM KIT

DPM KIT	2 IDUs connection	3 IDUs connection	4 IDUs connection
	MXJ-2D2509K	MXJ-3D2509K	MXJ-4D2509K

Installation Conditions

Items	Maximum allowable length
Max. pipe length after DPM kit	15m
Max. pipe length difference between IDUs after DPM kit	5m
Max. distance between IDUs	10m
Max. height difference between IDUs	0.5m
* Indoor units should be installed in one area which is not divided by a wall	

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	
	4Way cassette (600x600) (Stripe Pattern)	PC4SUSMG	
	4Way cassette (600x600)	PMSMA	
	4Way cassette S (Waffle Pattern)	PC4NUSKA	
	4Way cassette S (Waffle Pattern, Black)	PC4NBSKA	
	4Way cassette S (Classic Pattern)	PC4NUSKE	
Motion Detect Sensor Kit	4Way cassette (600x600)	MCR-SMA	
S-Plasma ion Kit	4Way cassette S 4Way cassette (600x600)	MSD-CAN1	

II. Specifications

1	Slim 1Way cassette	19
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Specifications



1 Slim 1Way cassette

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1 Slim 1 way cassette

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 / tCO2e	0.95 / 1.98		0.95 / 1.98			
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		
				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 (WxHxD)		mm	1180 x 25 x 460		1180 x 25 x 460		
		Shipping Dimensions (WxHxD)		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		

- All figures comply with EN14511

- Specifications may be subject to change without prior notice.

- These products contain R410A(GWP=2,088) which is fluorinated greenhouse gas.

1-2. Capacity tables

1) AC026FCADH/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) AC035FCADH/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

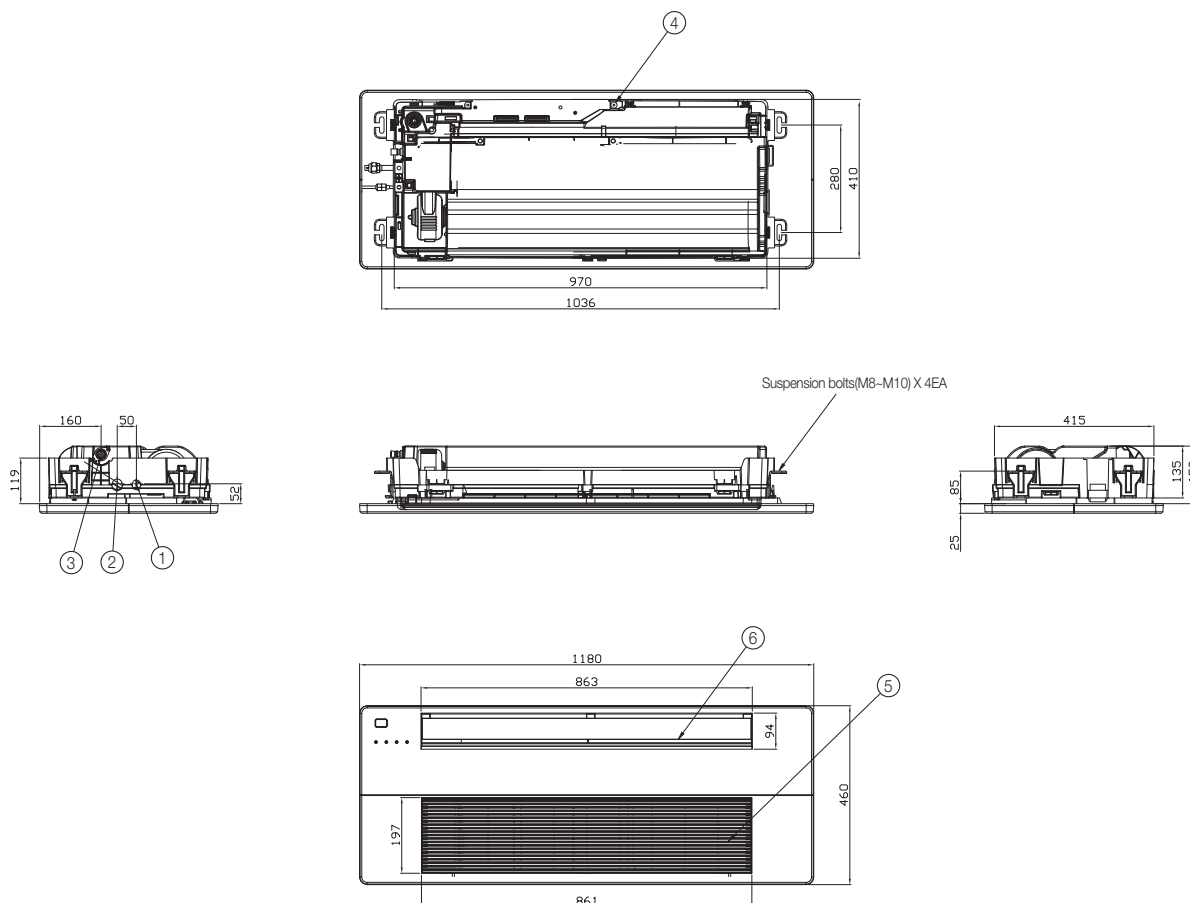
Note

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

1 Slim 1 way cassette

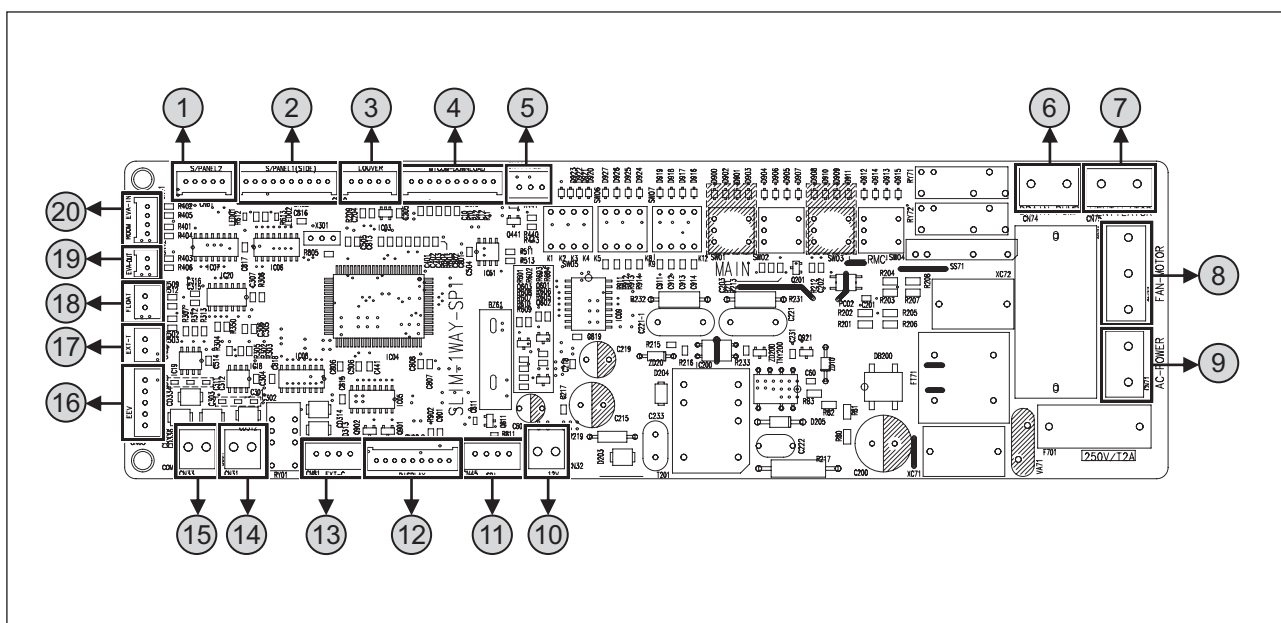
1-3. Dimensional drawing

Unit:mm



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

1-4. PCB connector lay-out



AC

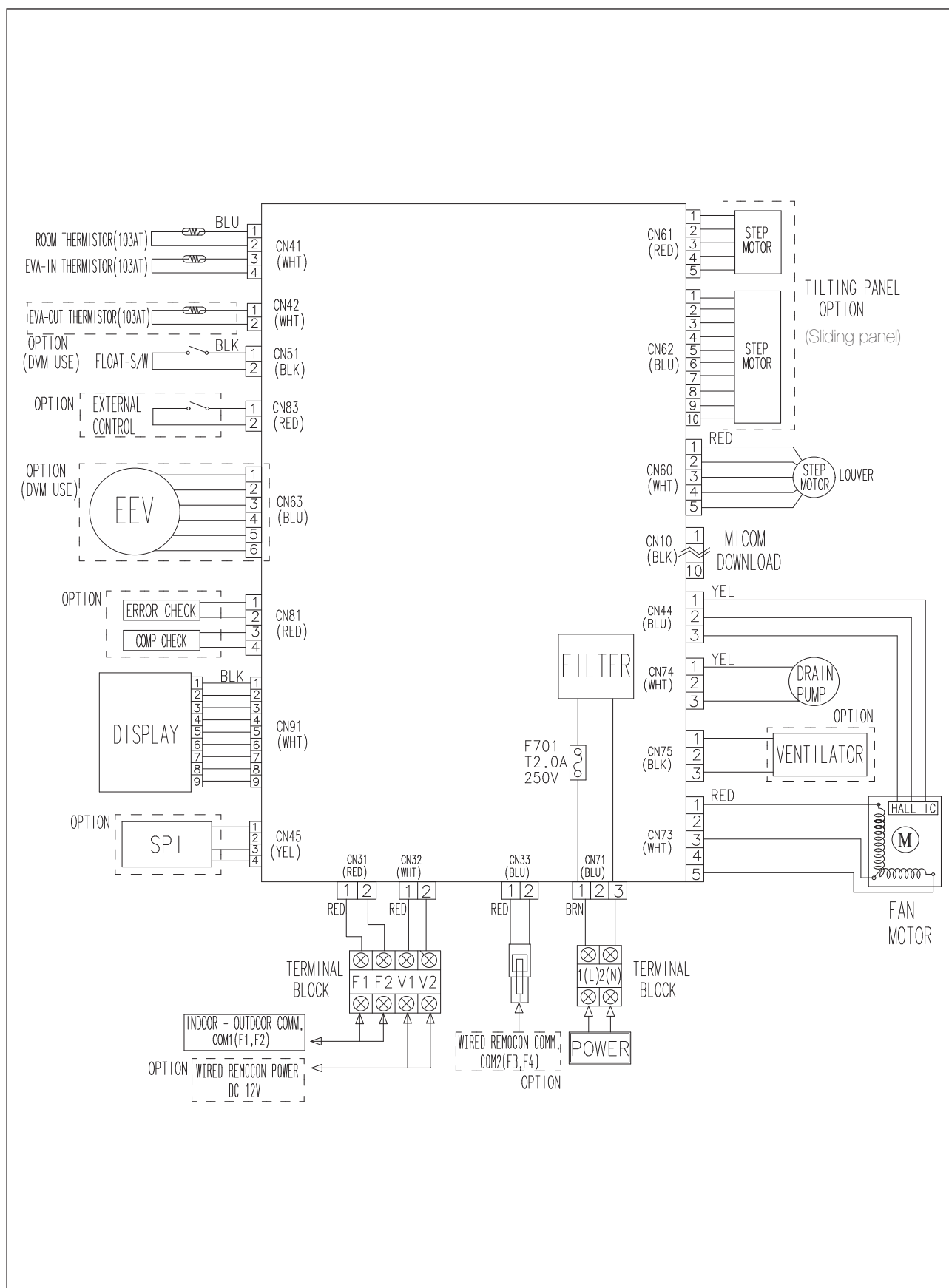
No.	CN #	Color	Function
⑥	CN74	WHT	Drain Pump
⑦	CN75	BLK	Ventilator
⑧	CN73	WHT	Fan Motor
⑨	CN71	BLU	AC POWER Input

DC

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

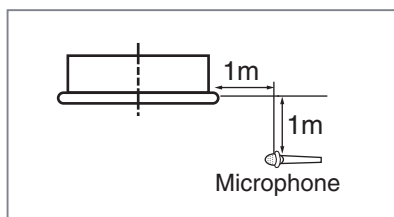
1 Slim 1 way cassette

1-5. Electrical wiring diagram



1-6. Sound pressure level

1) Operation sound level



Unit : dB(A)

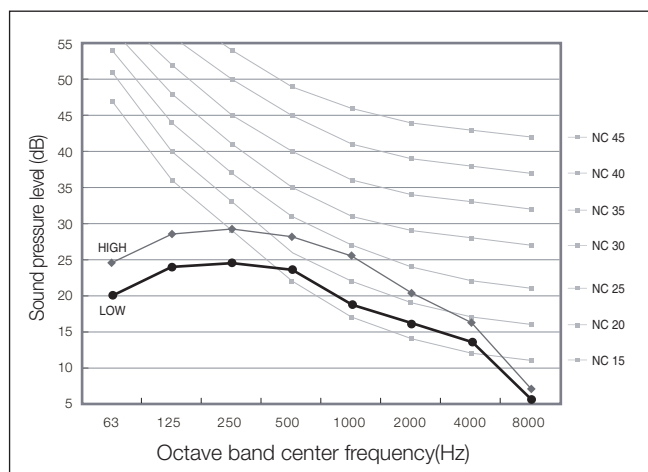
Model	High	Low
AC026FB1DEH/EU	30	25
AC035FB1DEH/EU	33	27

Note

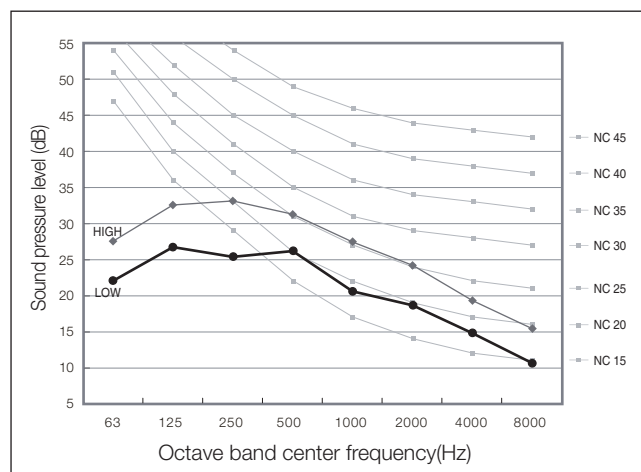
- ◆ These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- ◆ Operation sound level may differ depending on operation and ambient conditions.

2) NC curves

(1) AC026FB1DEH/EU



(2) AC035FB1DEH/EU



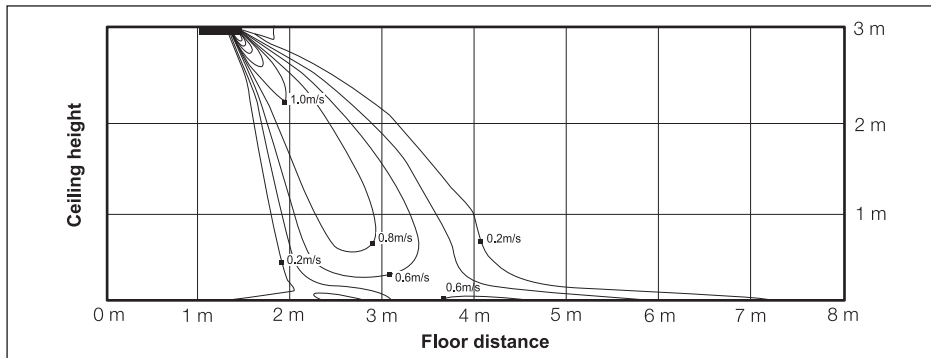
1 Slim 1 way cassette

1-7. Temperature and air flow distribution

1) AC035FB1DEH/EU

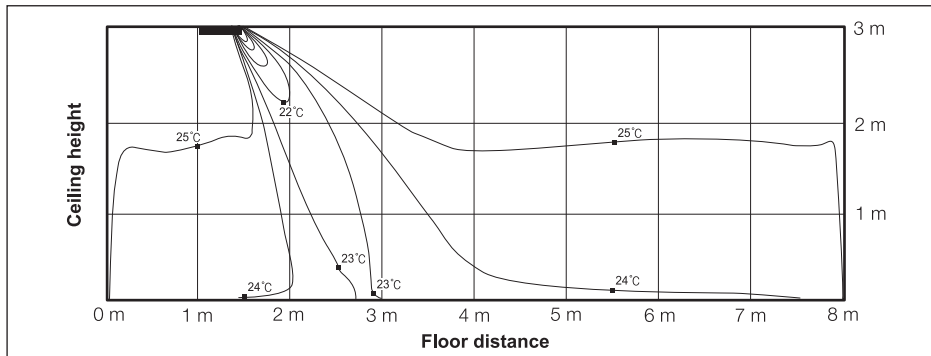
(1) Cooling air velocity distribution

◆ Discharge angle : 60°



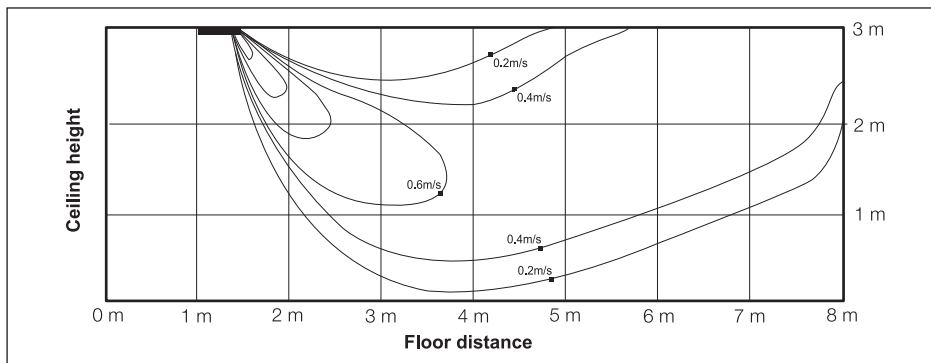
(2) Cooling temperature distribution

◆ Discharge angle : 60°



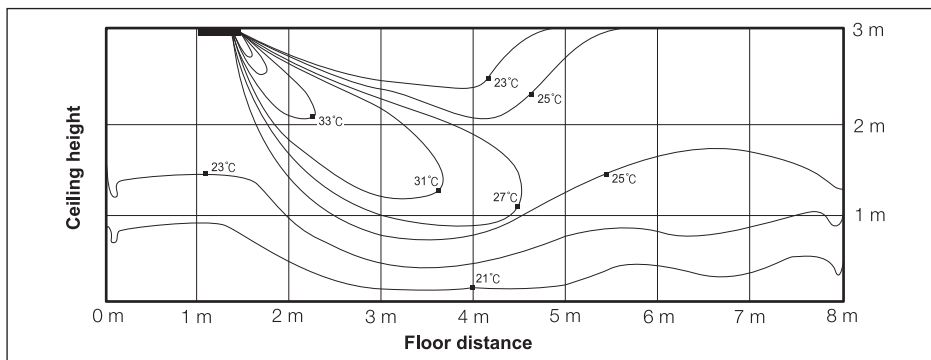
(3) Heating air velocity distribution

◆ Discharge angle : 60°



(4) Heating temperature distribution

◆ Discharge angle : 60°





2 4Way cassette(600x600)

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2 4Way cassette(600x600)

2-1. Specifications

1) Technical specifications

Model Name				AC026FBNDEH/EU	AC035FBNDEH/EU	AC052FBNDEH/EU	AC060FBNDEH/EU	AC071FBNDEH/EU
Outdoor Unit				AC026FCADDEH/EU	AC035FCADDEH/EU	AC052FCADDEH/EU	AC060FCADDEH/EU	AC071FCADDEH/EU
System	Mode			-	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)	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
				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)	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
				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
Indoor Unit	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	-	-	-	-	-	-
Indoor Unit	Power Supply	Factory Charging	kg / tCO ₂ e	0.95 / 1.98	0.95 / 1.98	1.40 / 2.92	1.80 / 3.76	1.80 / 3.76
		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
		Number of Unit	EA	1.00	1.00	1.00	1.00	1.00
		Air Flow Rate	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
		Sound Power		dB(A)	48	50	53	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	-	PC4SUSMC	PC4SUSMC	PC4SUSMC	PC4SUSMC	PC4SUSMC
		Panel Net Weight	kg	2.3	2.3	2.3	2.3	2.3
		Shipping Weight	kg	3.5	3.5	3.5	3.5	3.5
		Net Dimensions (WxHxD)	mm	620 x 45 x 620	620 x 45 x 620	620 x 45 x 620	620 x 45 x 620	620 x 45 x 620
		Shipping Dimensions (WxHxD)	mm	661 x 106 x 671	661 x 106 x 671	661 x 106 x 671	661 x 106 x 671	661 x 106 x 671
	Additional Accessories	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	UG4T200FUAJ4SG	UG4T200FUAJ4SG	UG4T200FUAJ4SG
		Output	kW	0.86	0.86	1.37	1.79	1.79
	Fan	Oil	Type	POE	POE	POE	POE	POE
		Initial Charge	cc	320.00	320.00	650.00	650.00	650.00
			CMM	29.00	30.00	33.00	50.00	52.00
	Sound	Air Flow Rate	Cooling	l/s	483.33	500.00	550.00	833.33
			Heating	l/s	46.0 / 47.0	47.0 / 48.0	48.0 / 49.0	49.0 / 50.0
	External Dimension	Sound Pressure	Cooling / Heating	dB(A)	46.0 / 47.0	47.0 / 48.0	48.0 / 49.0	49.0 / 50.0
		Sound Power		dB(A)	60	62	64	66
	Operating Temp. Range	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
		Cooling	°C	-10~46	-10~46	-15~46	-15~46	-15~50
		Heating	°C	-15~24	-15~24	-15~24	-20~24	-20~24

- All figures comply with EN14511
- Specifications may be subject to change without prior notice.
- These products contain R410A(GWP=2,088) which is fluorinated greenhouse gas.

2-2. Capacity tables

1) AC026FCADDEH/EU + AC026FBNDDEH/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) AC035FCADDEH/EU + AC035FBNDDEH/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 4Way cassette(600x600)

2-2. Capacity tables

3) AC052FCADH/EU + AC052FBNDH/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) AC060FCADH/EU + AC060FBNDH/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

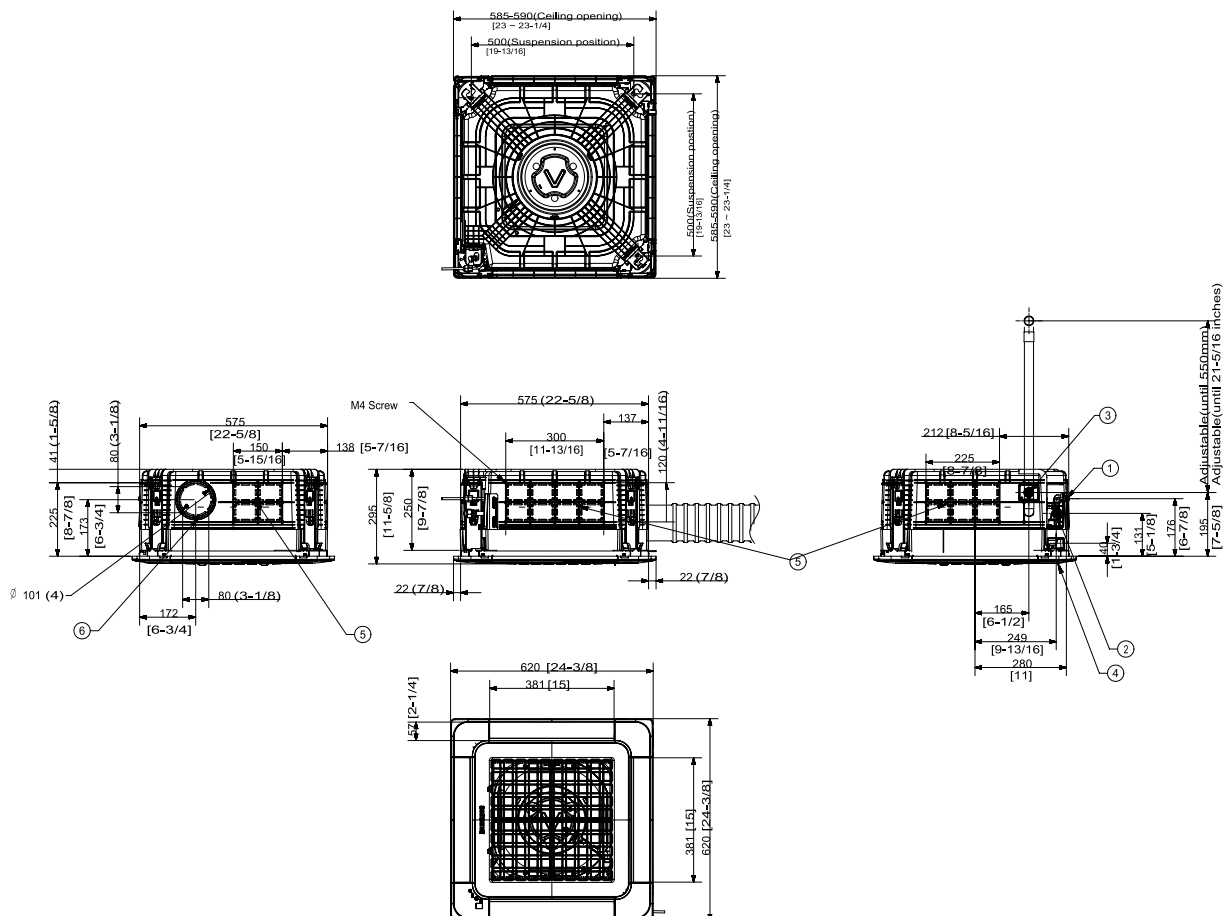
☒ Note

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

2 4Way cassette(600x600)

2-3. Dimensional drawing

Units : mm [inches]



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	Sub duct connection	Use M4 Screw				
⑥	Fresh air intake knockout hole	Φ101[4] , Use M4 Screw				

Specifications

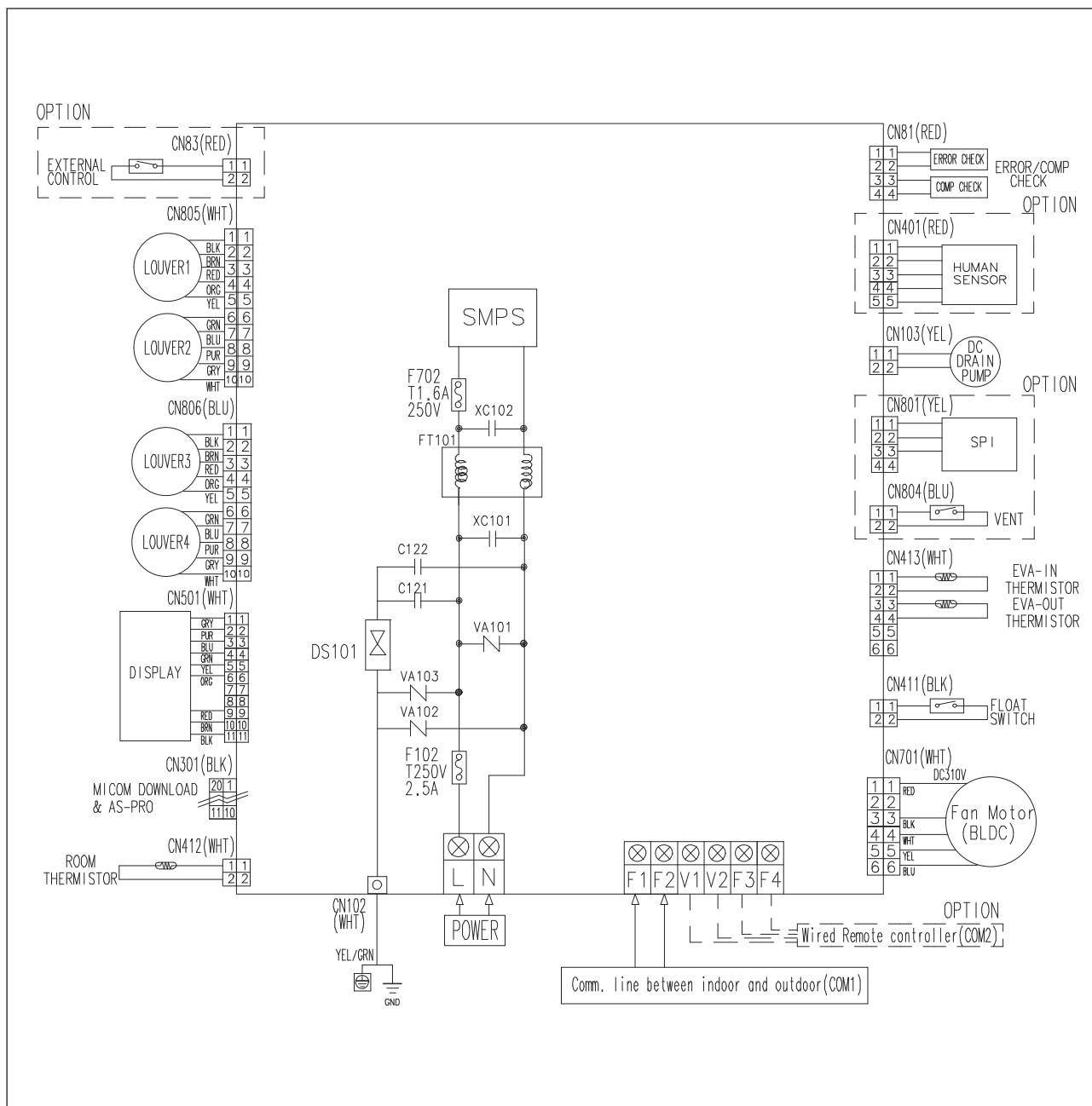


➡ DC

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

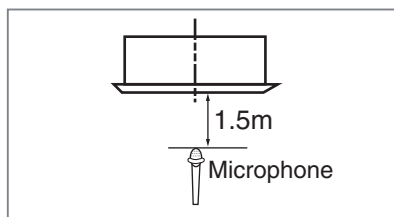
2 4Way cassette(600x600)

2-5 . Electrical wiring diagram



2-6. Sound pressure level

1) Operation sound level



Unit : dB(A)

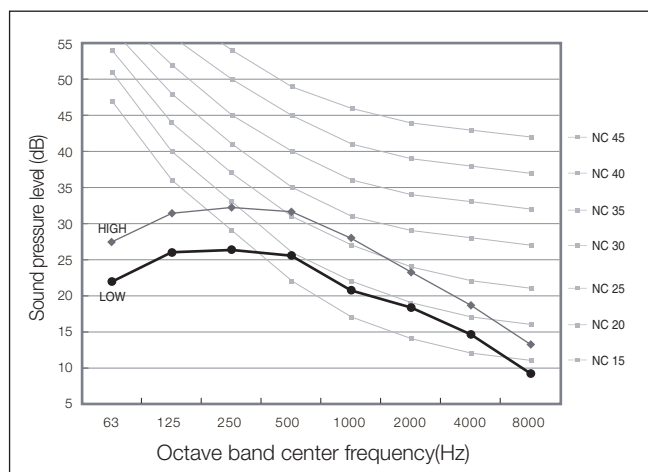
Model	High	Low
AC026FBNDEH/EU	33	27
AC035FBNDEH/EU	35	29
AC052FBNDEH/EU	39	34
AC060FBNDEH/EU	41	35
AC071FBNDEH/EU	42	36

✓ Note

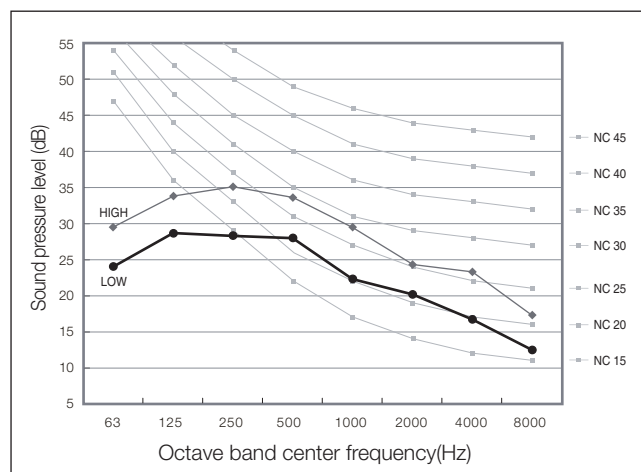
- ◆ These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- ◆ Operation sound level may differ depending on operation and ambient conditions.

2) NC curves

(1) AC026FBNDEH/EU



(2) AC035FBNDEH/EU

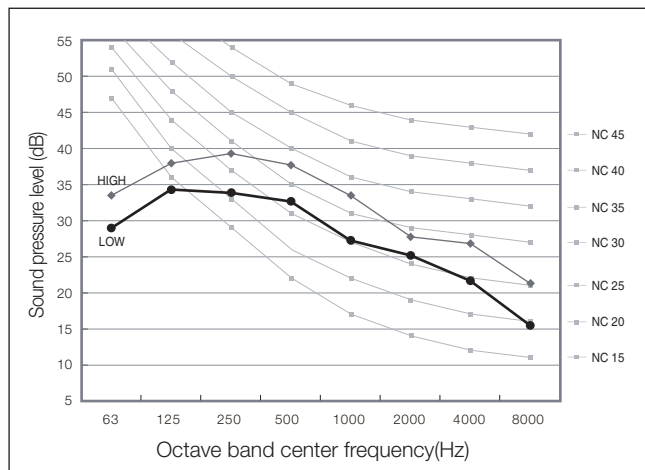


2 4Way cassette(600x600)

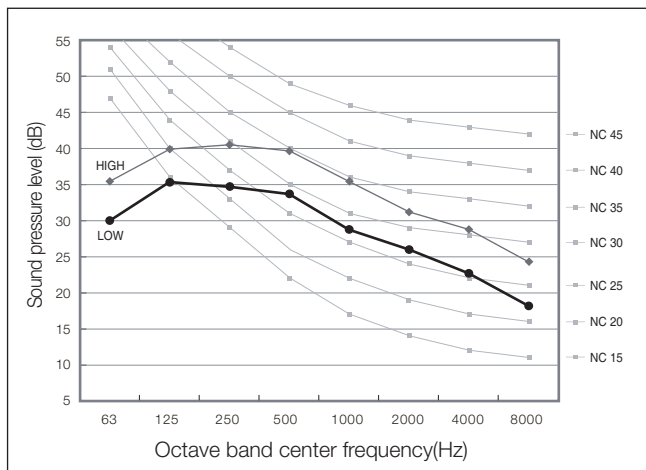
2-6. Sound pressure level

2) NC curves

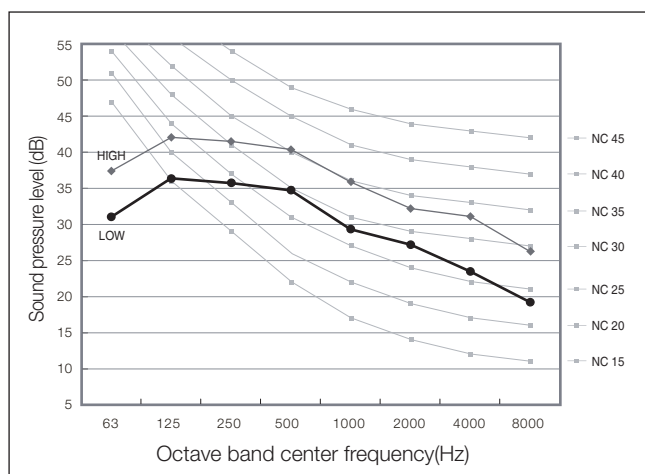
(3) AC052FBNDEH/EU



(4) AC060FBNDEH/EU



(5) AC071FBNDEH/EU

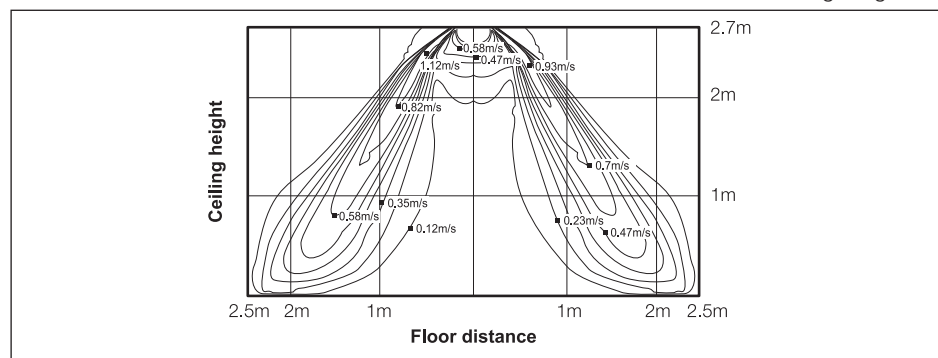


2-7. Temperature and air flow distribution

1) AC026FBNDEH/EU

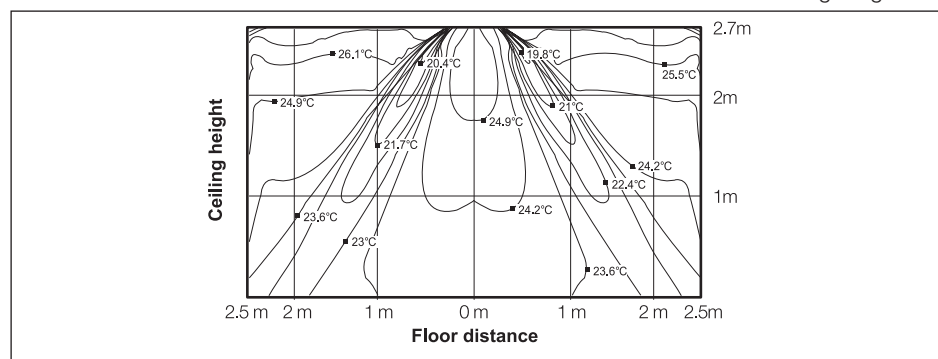
(1) Cooling air velocity distribution

◆ Discharge angle : 41°



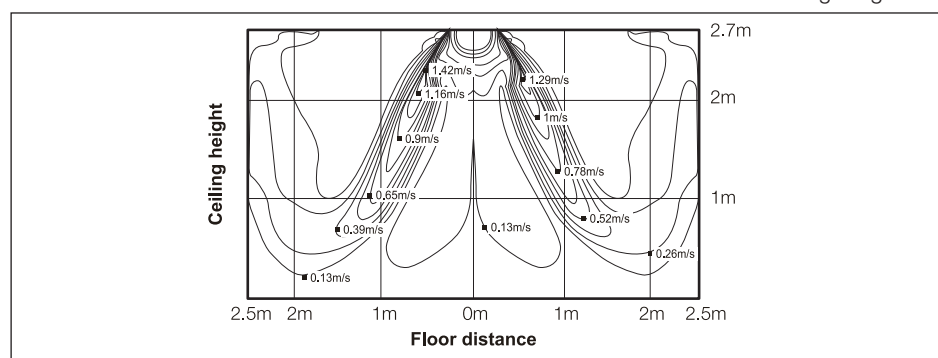
(2) Cooling temperature distribution

◆ Discharge angle : 41°



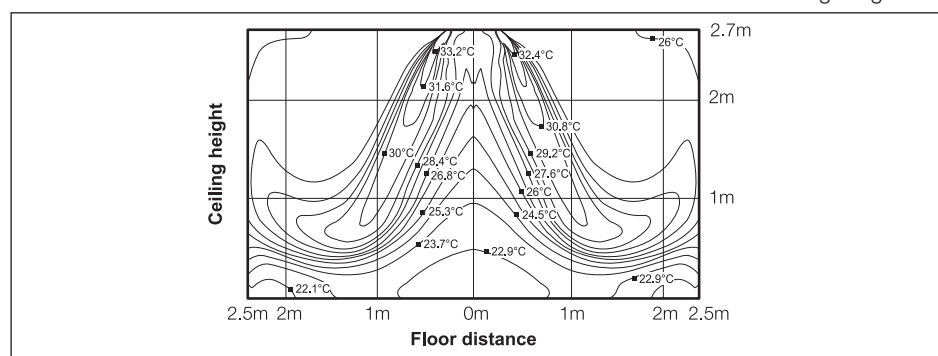
(3) Heating air velocity distribution

◆ Discharge angle : 52°



(4) Heating temperature distribution

◆ Discharge angle : 52°



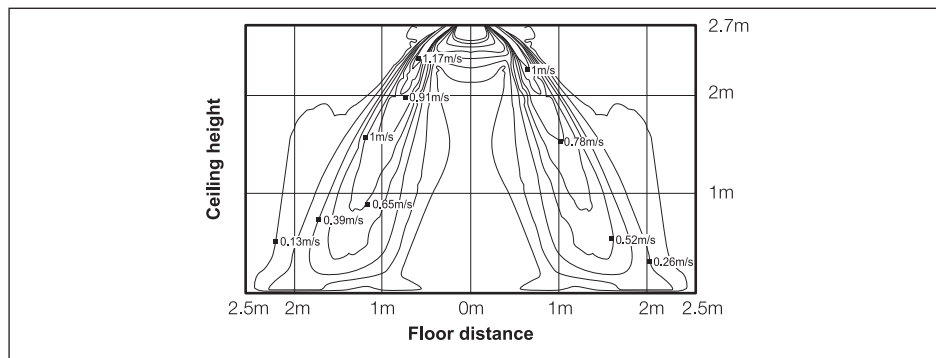
2 4Way cassette(600x600)

2-7. Temperature and air flow distribution

2) AC035FBNDEH/EU

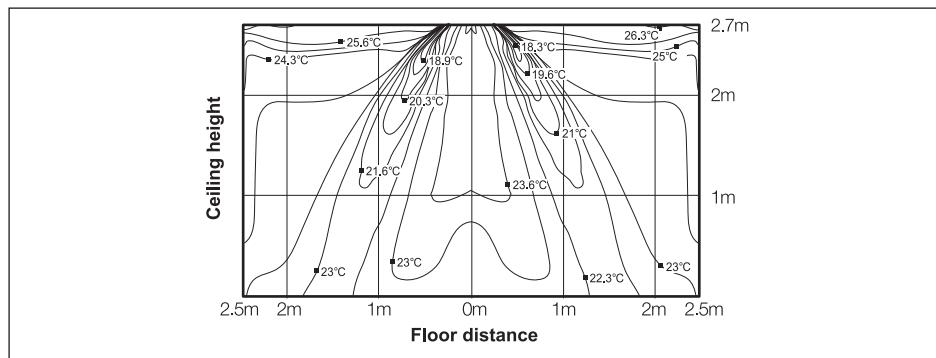
(1) Cooling air velocity distribution

◆ Discharge angle : 41°



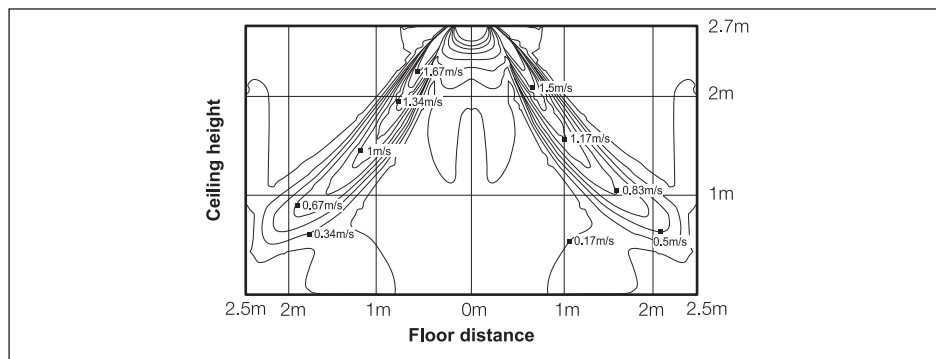
(2) Cooling temperature distribution

◆ Discharge angle : 41°



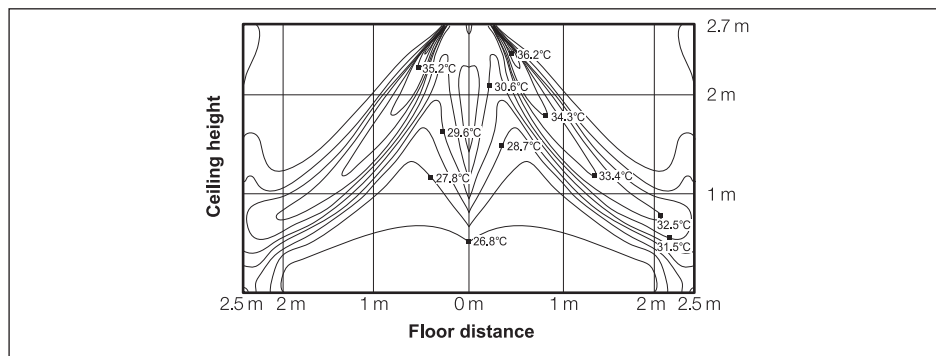
(3) Heating air velocity distribution

◆ Discharge angle : 52°



(4) Heating temperature distribution

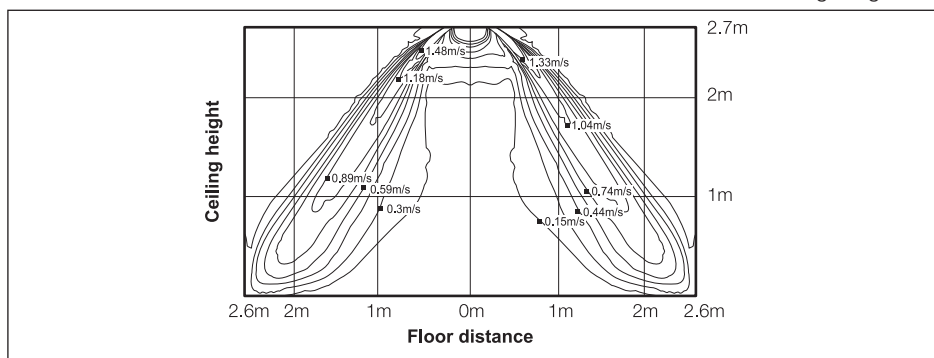
◆ Discharge angle : 52°



3) AC052FBNDEH/EU

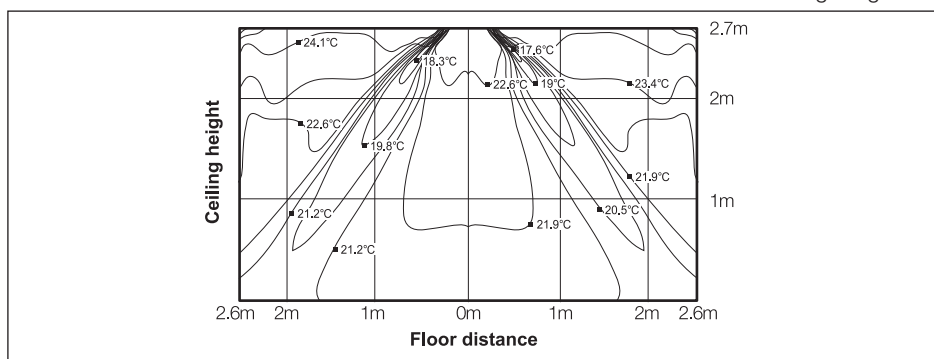
(1) Cooling air velocity distribution

◆ Discharge angle : 41°



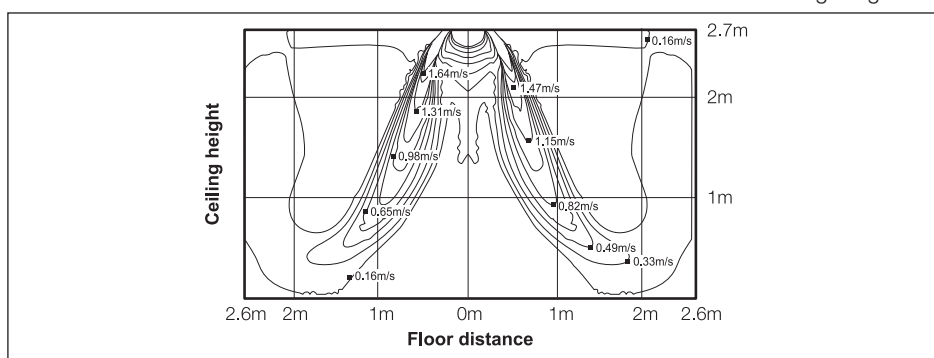
(2) Cooling temperature distribution

◆ Discharge angle : 41°



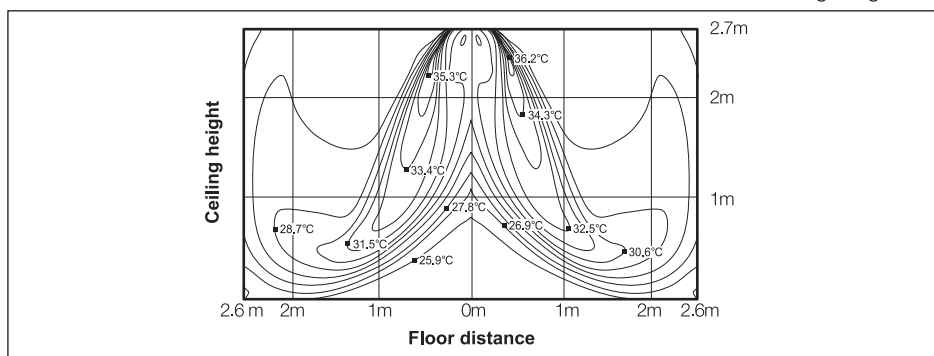
(3) Heating air velocity distribution

◆ Discharge angle : 52°



(4) Heating temperature distribution

◆ Discharge angle : 52°



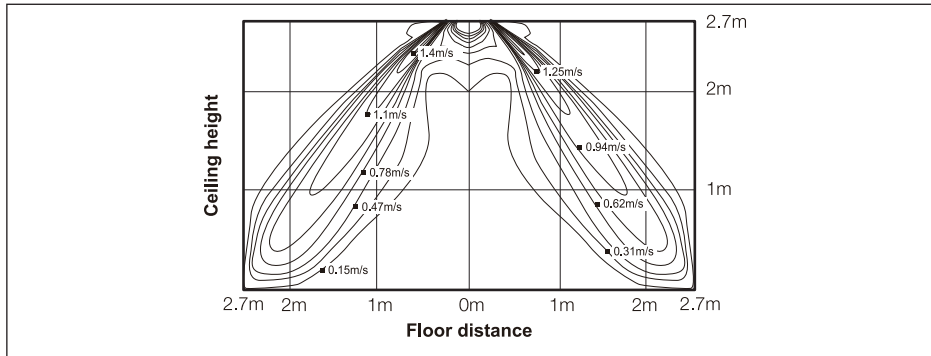
2 4Way cassette(600x600)

2-7. Temperature and air flow distribution

4) AC060FBNDEH/EU

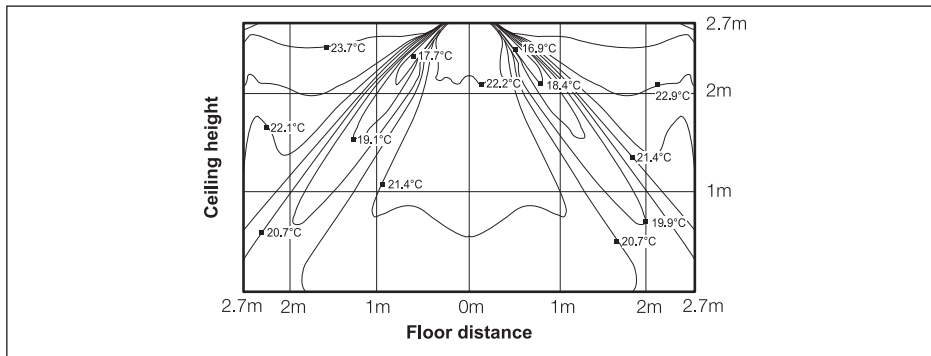
(1) Cooling air velocity distribution

◆ Discharge angle : 41°



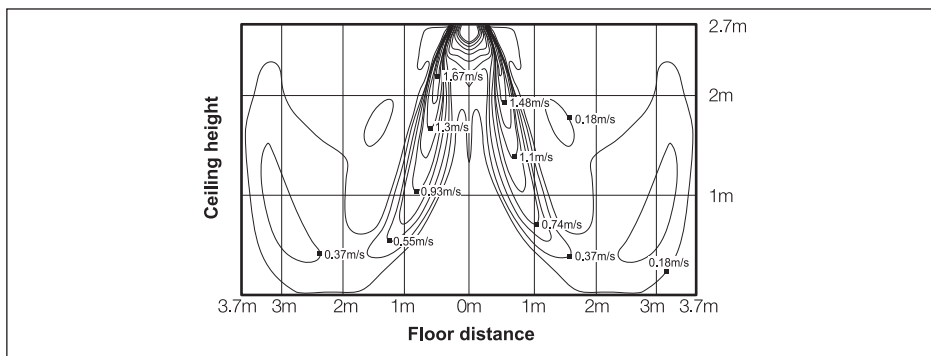
(2) Cooling temperature distribution

◆ Discharge angle : 41°



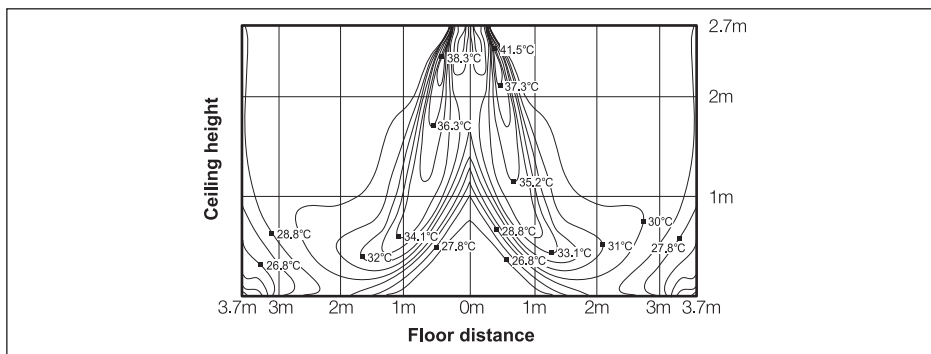
(3) Heating air velocity distribution

◆ Discharge angle : 52°



(4) Heating temperature distribution

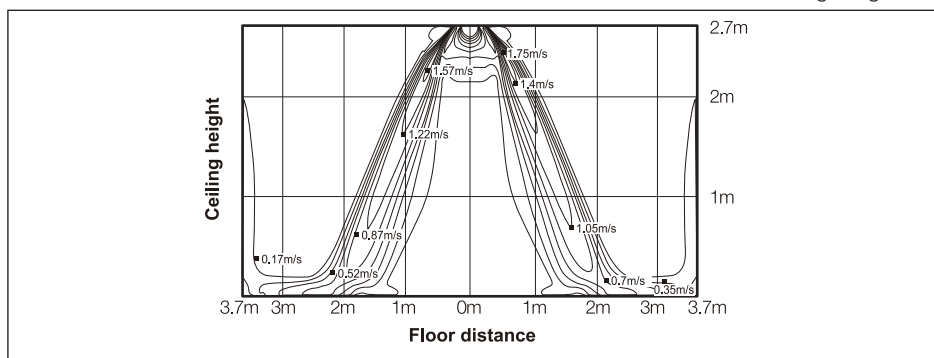
◆ Discharge angle : 52°



5) AC071FBNDEH/EU

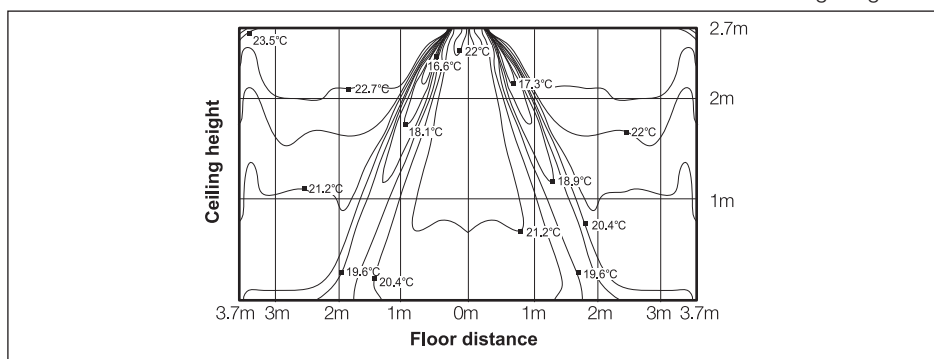
(1) Cooling air velocity distribution

◆ Discharge angle : 41°



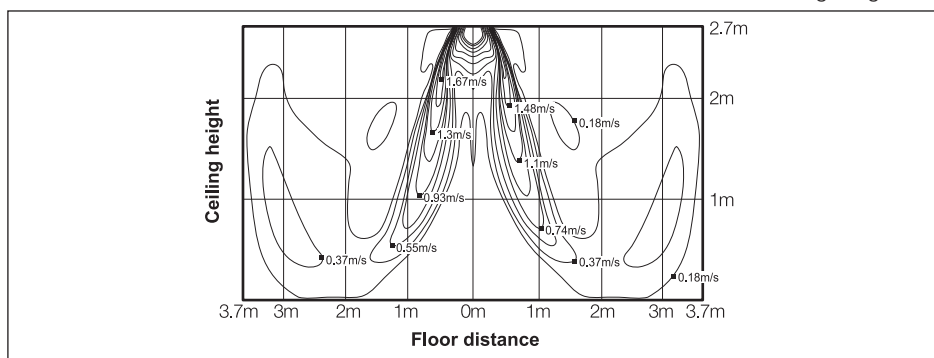
(2) Cooling temperature distribution

◆ Discharge angle : 41°



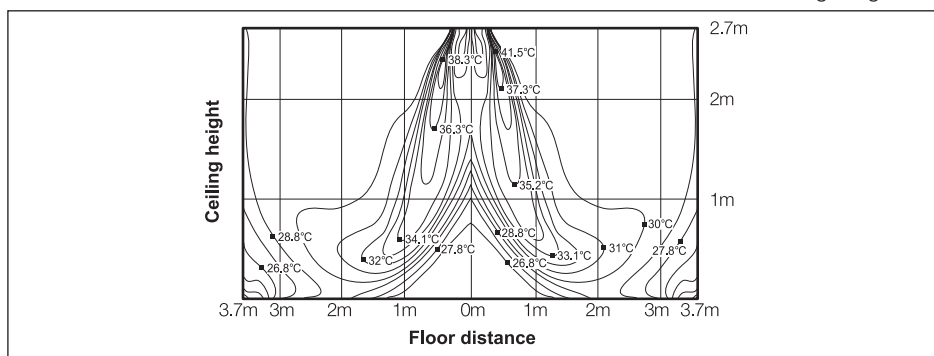
(3) Heating air velocity distribution

◆ Discharge angle : 52°



(4) Heating temperature distribution

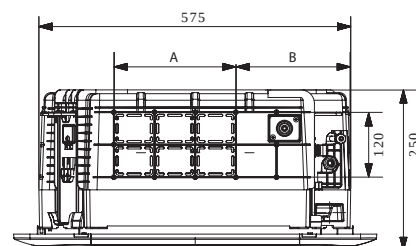
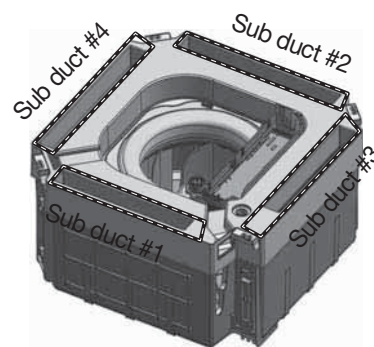
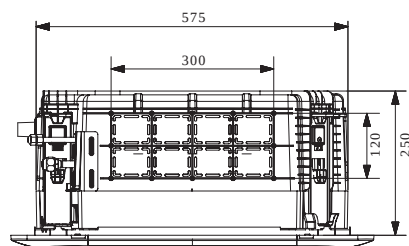
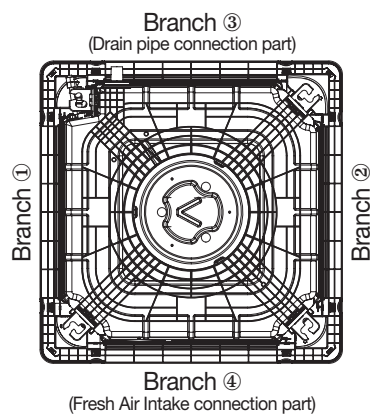
◆ Discharge angle : 52°



2 4Way cassette(600x600)

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)

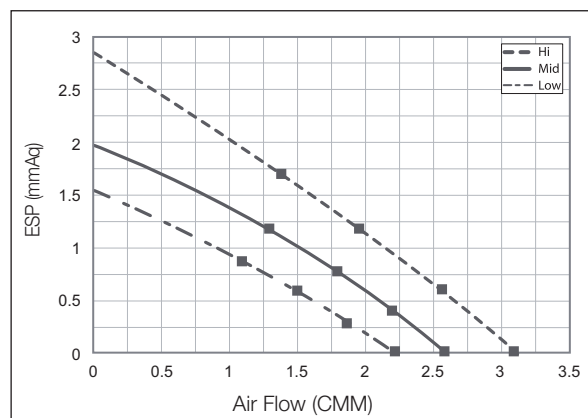
✓ Note

- ◆ 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.

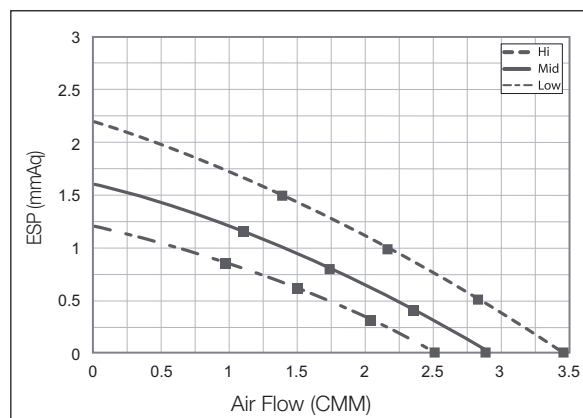
2) P-Q Curve

(1) AC026FBNDEH/EU

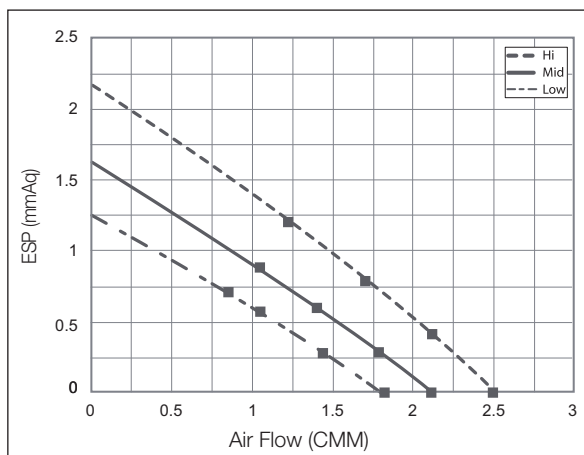
Branch ①



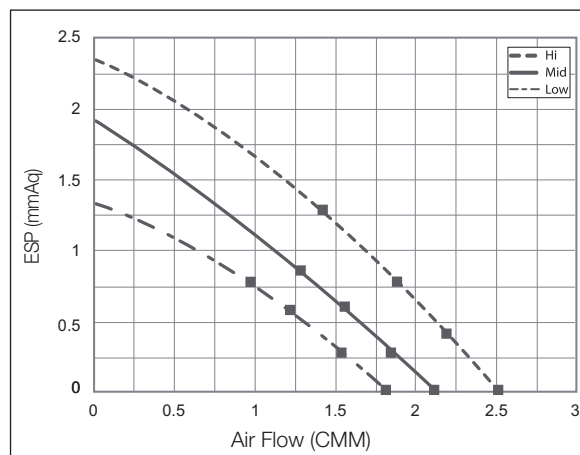
Branch ②



Branch ③

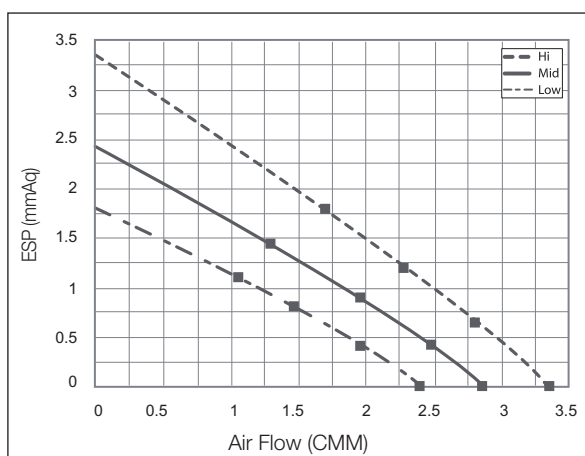


Branch ④

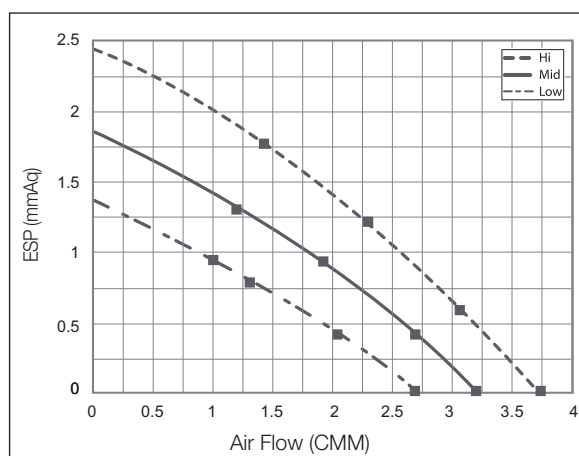


(2) AC035FBNDEH/EU

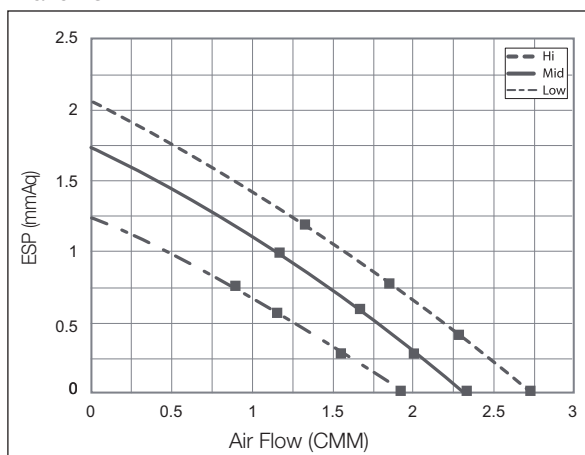
Branch ①



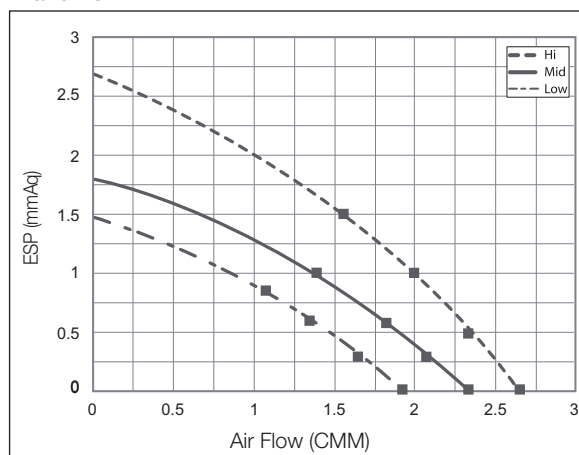
Branch ②



Branch ③



Branch ④



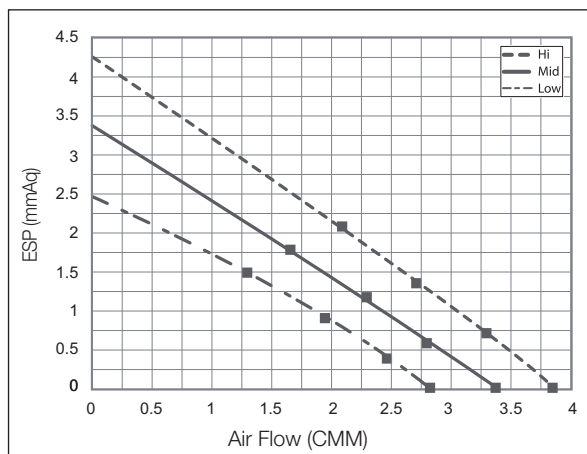
2 4Way cassette(600x600)

2-8. Sub duct

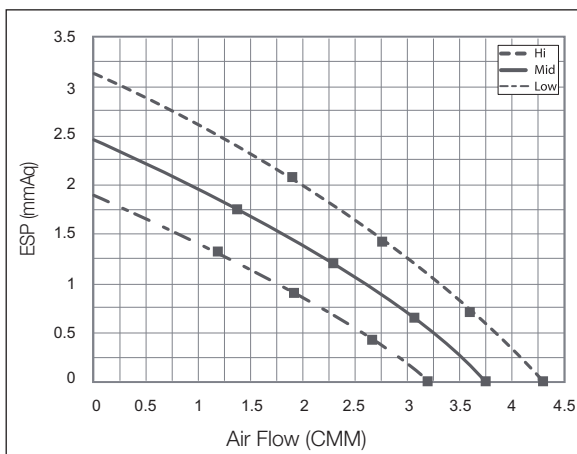
2) P-Q Curve

(3) AC052FBNDEH/EU

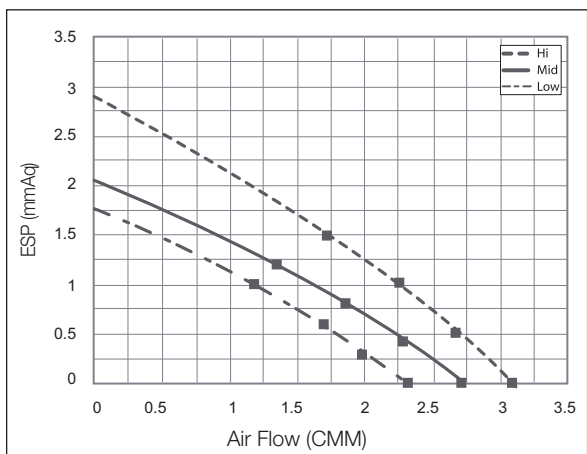
Branch ①



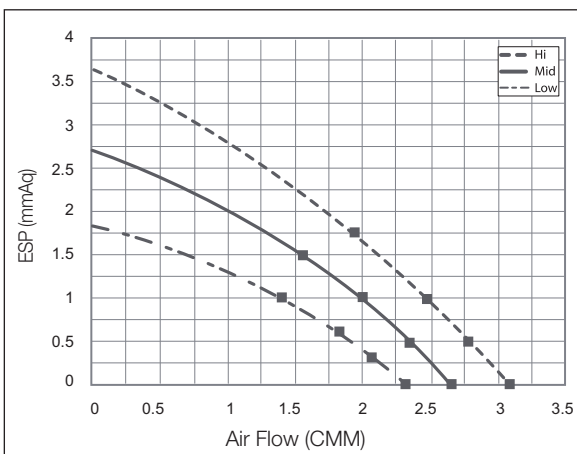
Branch ②



Branch ③

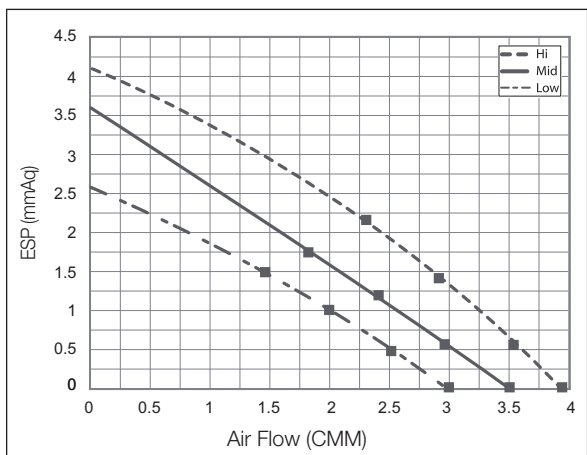


Branch ④

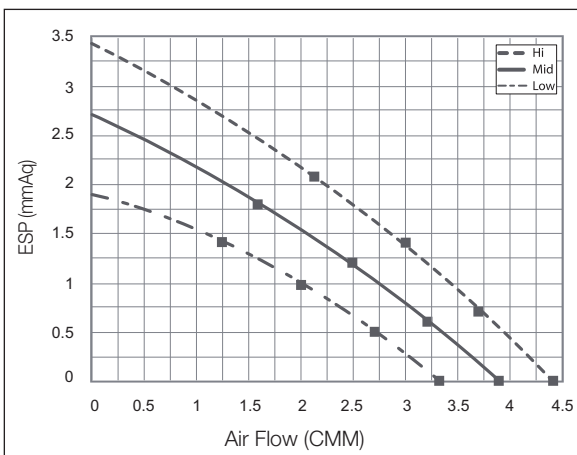


(4) AC060FBNDEH/EU

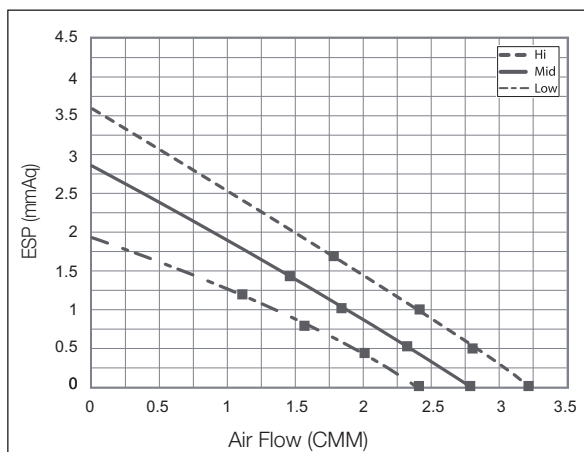
Branch ①



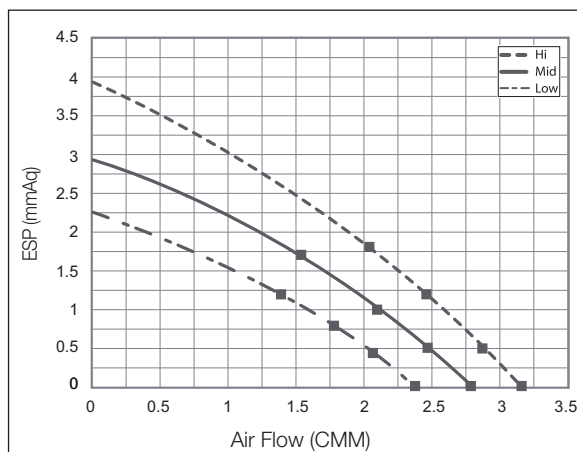
Branch ②



Branch ③

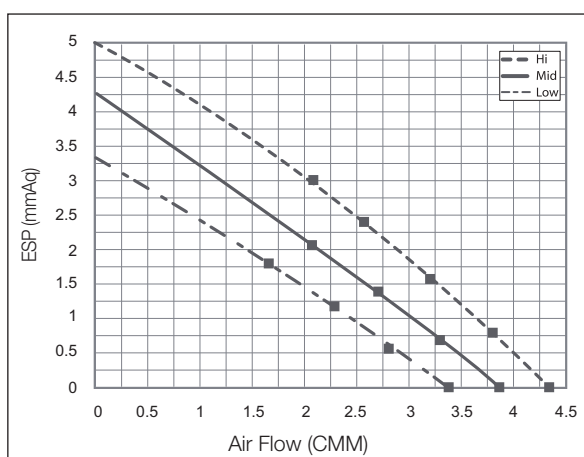


Branch ④

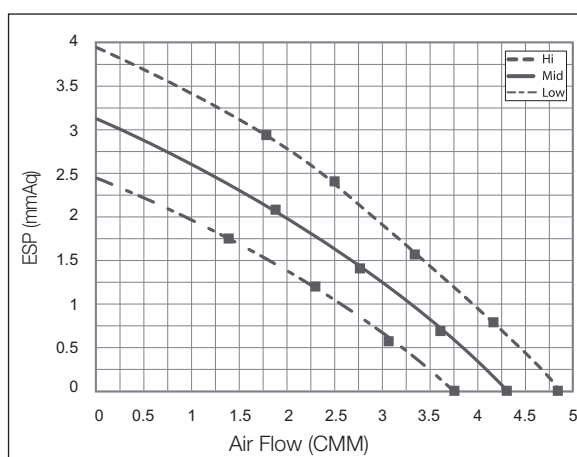


(5) AC071FBNDEH/EU

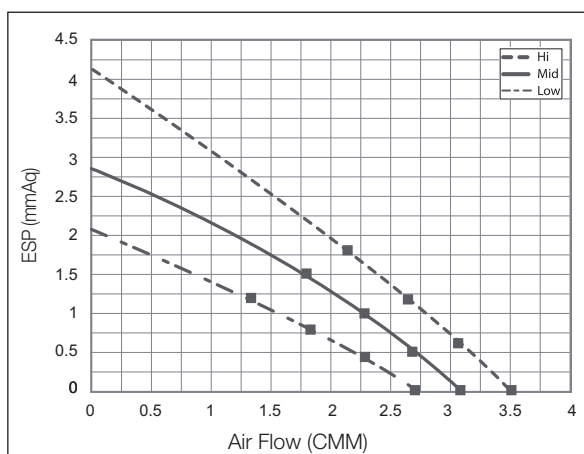
Branch ①



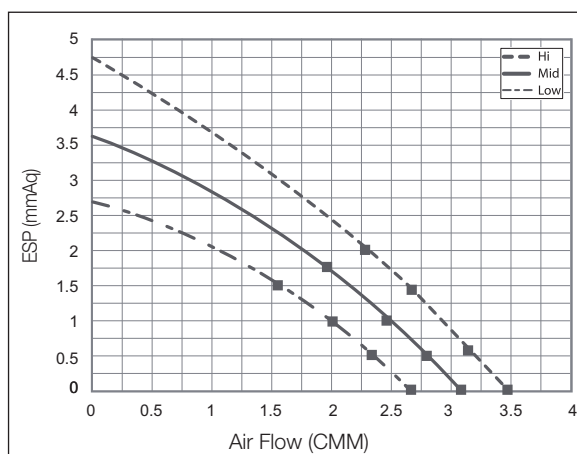
Branch ②

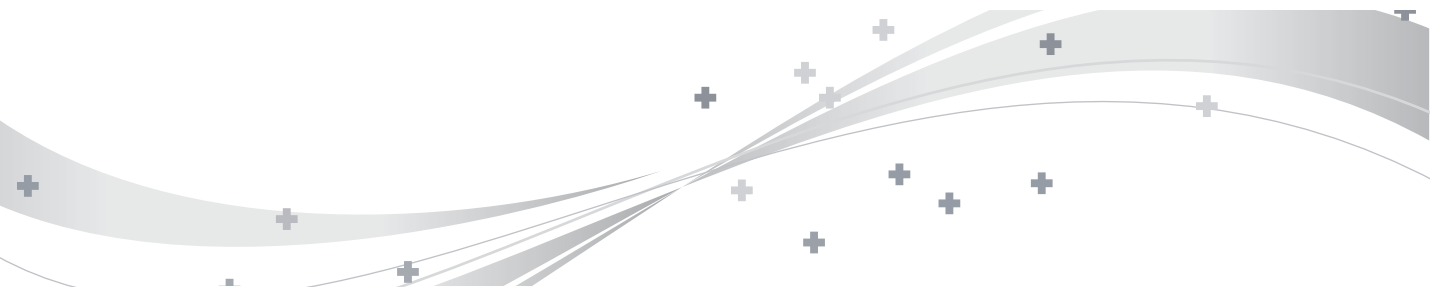


Branch ③



Branch ④





Specifications



3 4 way cassette S

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3-1. Specifications

1) Technical specifications

Model Name				AC052FB4DEH/EU	AC071FB4DEH/EU	AC071FB4PEH/EU	AC090FB4DEH/EU
Outdoor Unit				AC052FC4DEH/EU	AC071FC4DEH/EU	AC071FC4PEH/EU	AC090FC4DEH/EU
System	Mode			-	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)	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
				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)	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
				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)	30(35)	50(55)	50(55)	50(55)
			Max. Height (Between ID/OD)	20(20)	30(30)	30(30)	30(30)
Indoor Unit	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 / tCO ₂ e	-	-	-	-	-
			-	1.40 / 2.92	1.80 / 3.76	1.80 / 3.76	3.00 / 6.26
	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
		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
			I/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
		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 (WxHxD)	mm	950 x 45 x 950	950 x 45 x 950	950 x 45 x 950	950 x 45 x 950
		Shipping Dimensions (WxHxD)	mm	1005 x 100 x 1005	1005 x 100 x 1005	1005 x 100 x 1005	1005 x 100 x 1005
		Additional Accessories	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	UG4T200FUA4SG	UG4T200FUA4SG	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	50.00	63.50
			I/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
		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	-15~46	-15~50	-15~50	-15~50
		Heating	°C	-15~24	-20~24	-20~24	-20~24

- All figures comply with EN14511

- Specifications may be subject to change without prior notice.

- These products contain R410A(GWP=2,088) which is fluorinated greenhouse gas.

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
	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	0.50/3.28/5.20	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 / tCO2e	3.00 / 6.26	3.00 / 6.26	3.10 / 6.47	3.40 / 7.10	3.40 / 7.10
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	
	Sound Power			dB(A)	58	58	58	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 (WxHxD)		mm	950 x 45 x 950	950 x 45 x 950	950 x 45 x 950	950 x 45 x 950	950 x 45 x 950	
	Shipping Dimensions (WxHxD)		mm	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		-	-	-	-	-	-	
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	UG5T450FUFJXSG	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	

- All figures comply with EN14511
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- These products contain R410A(GWP=2,088) which is fluorinated greenhouse gas.

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
	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)	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
				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)	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
				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)	75(75)	75(75)	75(75)	75(75)
			Max. Height (Between ID/OD)	30(30)	30(30)	30(30)	30(30)
Indoor Unit	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 / tCO ₂ e	-	-	-	-	-
			-	3.80 / 7.93	2.90 / 6.06	2.90 / 6.06	3.40 / 7.10
	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	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	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
		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 (WxHxD)	mm	950 x 45 x 950	950 x 45 x 950	950 x 45 x 950	950 x 45 x 950
		Shipping Dimensions (WxHxD)	mm	1005 x 100 x 1005	1005 x 100 x 1005	1005 x 100 x 1005	1005 x 100 x 1005
		Additional Accessories	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	-	UG5T450FJXSG	UG5T450FJXSG	UG5T450FJXSG	UG5T450FJXSG
		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
		CMM	112.00	90.50	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
		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

- All figures comply with EN14511

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Model Name		Indoor Unit		NS1254PXE	NS1404DXE	NS1404DXE	NS1404PXE	NS1404PXE
		Outdoor Unit		RC125PHXGA	RC140DHXEB	RC140DHXGA	RC140PHXEA	RC140PHXGA
System	Mode			-	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)	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
				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)	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
				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)
			Max. Height (Between ID/OD)	m	30(30)	30(30)	30(30)	30(30)
Indoor Unit	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 / tCO ₂ e	3.40 / 7.10	3.40 / 7.10	3.40 / 7.10	3.80 / 7.93	3.80 / 7.93
	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
		Air Flow Rate	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
		Sound Power		dB(A)	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 (WxHxD)	mm	950 x 45 x 950	950 x 45 x 950	950 x 45 x 950	950 x 45 x 950	950 x 45 x 950
		Shipping Dimensions (WxHxD)	mm	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	UG5T450FAXJXSG	UG5T450FAXJXSG
		Output		kW	4.12	4.12	4.01	4.01
		Oil	Type	-	POE	POE	POE	POE
			Initial Charge	cc	1700.00	1700.00	1700.00	1700.00
	Fan	Air Flow Rate	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
		Sound Power		dB(A)	68	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

- All figures comply with EN14511
- Specifications may be subject to change without prior notice.
- These products contain R410A(GWP=2,088) which is fluorinated greenhouse gas.

3 4 way cassette S

3-2. Capacity tables

1) AC052FB4DEH/EU + AC052FC4DEH/EU

Cooling

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

Outdoor temperature (°C, DB)	Indoor temperature (°C, WB)																	
	14.0			16.0			18.0			19.0			22.0			24.0		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15.0	5.60	4.50	1.17	5.80	4.60	1.20	5.90	4.70	1.23	6.10	4.90	1.26	6.20	5.00	1.29	6.40	5.10	1.32
21.0	5.90	4.70	1.22	6.00	4.80	1.25	6.20	4.90	1.28	6.30	5.10	1.31	6.50	5.20	1.34	6.60	5.30	1.37
35.0	4.70	3.80	1.43	4.90	3.90	1.47	5.00	4.00	1.50	5.10	4.10	1.54	5.20	4.20	1.58	5.30	4.30	1.61
43.0	3.70	3.00	1.65	3.80	3.10	1.69	3.90	3.10	1.73	4.00	3.20	1.77	4.10	3.30	1.81	4.20	3.40	1.86
50.0	3.10	2.50	1.50	3.20	2.50	1.54	3.20	2.60	1.58	3.30	2.60	1.62	3.40	2.70	1.66	3.50	2.80	1.70

Heating

TC : Total Capacity, PI: Power Input

Outdoor temperature (°C, DB)	Indoor temperature (°C, DB)											
	16.0		18.0		20.0		21.0		22.0		24.0	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20.0	4.00	1.86	4.00	1.84	3.90	1.83	3.90	1.81	3.90	1.79	3.80	1.77
-10.0	5.50	2.16	5.40	2.14	5.40	2.12	5.30	2.10	5.30	2.07	5.20	2.05
7.0	5.80	1.49	5.80	1.47	5.70	1.46	5.60	1.45	5.60	1.43	5.50	1.42
24.0	7.80	1.71	7.70	1.70	7.60	1.68	7.60	1.66	7.50	1.65	7.40	1.63

2) AC071FB4DEH/EU + AC071FC4DEH/EU

Cooling

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

Outdoor temperature (°C, DB)	Indoor temperature (°C, WB)																	
	14.0			16.0			18.0			19.0			22.0			24.0		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15.0	7.90	6.30	1.68	8.00	6.40	1.73	8.20	6.60	1.77	8.40	6.80	1.81	8.70	6.90	1.86	8.90	7.10	1.90
21.0	8.20	6.50	1.75	8.40	6.70	1.79	8.60	6.90	1.83	8.80	7.00	1.88	9.00	7.20	1.92	9.20	7.40	1.97
35.0	6.60	5.30	2.05	6.80	5.40	2.11	6.90	5.50	2.16	7.10	5.70	2.21	7.30	5.80	2.26	7.40	6.00	2.32
43.0	5.20	4.20	2.36	5.30	4.30	2.42	5.50	4.40	2.48	5.60	4.50	2.54	5.70	4.60	2.60	5.90	4.70	2.66
50.0	4.30	3.40	2.16	4.40	3.50	2.21	4.50	3.60	2.26	4.60	3.70	2.32	4.70	3.80	2.38	4.80	3.90	2.43

Heating

TC : Total Capacity PI: Power Input

Outdoor temperature (°C, DB)	Indoor temperature (°C, DB)											
	16.0		18.0		20.0		21.0		22.0		24.0	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20.0	5.60	2.83	5.60	2.80	5.50	2.78	5.50	2.75	5.40	2.72	5.40	2.69
-10.0	7.70	3.28	7.60	3.25	7.50	3.22	7.40	3.19	7.40	3.15	7.30	3.12
7.0	8.20	2.26	8.10	2.24	8.00	2.22	7.90	2.20	7.80	2.18	7.80	2.15
24.0	10.90	2.60	10.80	2.58	10.70	2.55	10.60	2.53	10.50	2.50	10.40	2.48



Note

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

3) AC071FB4PEH/EU + AC071FCAPEH/EU

Cooling

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

Outdoor temperature (°C, DB)	Indoor temperature (°C, WB)																	
	14.0			16.0			18.0			19.0			22.0			24.0		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15.0	7.90	6.30	1.50	8.00	6.40	1.54	8.20	6.60	1.58	8.40	6.80	1.62	8.70	6.90	1.65	8.90	7.10	1.69
21.0	8.20	6.50	1.56	8.40	6.70	1.60	8.60	6.90	1.63	8.80	7.00	1.67	9.00	7.20	1.71	9.20	7.40	1.76
35.0	6.60	5.30	1.83	6.80	5.40	1.88	6.90	5.50	1.92	7.10	5.70	1.97	7.30	5.80	2.02	7.40	6.00	2.07
43.0	5.20	4.20	2.11	5.30	4.30	2.16	5.50	4.40	2.21	5.60	4.50	2.27	5.70	4.60	2.32	5.90	4.70	2.38
50.0	4.30	3.40	1.92	4.40	3.50	1.97	4.50	3.60	2.02	4.60	3.70	2.07	4.70	3.80	2.12	4.80	3.90	2.17

Heating

TC : Total Capacity, PI: Power Input

Outdoor temperature (°C, DB)	Indoor temperature (°C, DB)											
	16.0		18.0		20.0		21.0		22.0		24.0	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20.0	5.60	2.68	5.60	2.65	5.50	2.63	5.50	2.60	5.40	2.57	5.40	2.55
-10.0	7.70	3.11	7.60	3.08	7.50	3.05	7.40	3.01	7.40	2.98	7.30	2.95
7.0	8.20	2.14	8.10	2.12	8.00	2.10	7.90	2.08	7.80	2.06	7.80	2.04
24.0	10.90	2.46	10.80	2.44	10.70	2.42	10.60	2.39	10.50	2.37	10.40	2.34

4) AC090FB4DEH/EU + AC090FCADEH/EU

Cooling

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

Outdoor temperature (°C, DB)	Indoor temperature (°C, WB)																	
	14.0			16.0			18.0			19.0			22.0			24.0		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15.0	10.00	8.00	2.28	10.20	8.20	2.34	10.50	8.40	2.39	10.70	8.60	2.45	11.00	8.80	2.51	11.20	9.00	2.57
21.0	10.40	8.30	2.36	10.60	8.50	2.42	10.90	8.70	2.48	11.20	8.90	2.54	11.40	9.10	2.60	11.70	9.40	2.66
35.0	8.40	6.70	2.78	8.60	6.90	2.85	8.80	7.00	2.92	9.00	7.20	2.99	9.20	7.40	3.06	9.40	7.50	3.14
43.0	6.60	5.30	3.20	6.80	5.40	3.28	6.90	5.60	3.36	7.10	5.70	3.44	7.30	5.80	3.52	7.50	6.00	3.61
50.0	5.40	4.30	2.92	5.60	4.50	2.99	5.70	4.60	3.06	5.80	4.70	3.14	6.00	4.80	3.21	6.10	4.90	3.29

Heating

TC : Total Capacity PI: Power Input

Outdoor temperature (°C, DB)	Indoor temperature (°C, DB)											
	16.0		18.0		20.0		21.0		22.0		24.0	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20.0	7.00	3.74	7.00	3.70	6.90	3.66	6.80	3.63	6.80	3.59	6.70	3.55
-10.0	9.60	4.33	9.50	4.29	9.40	4.25	9.30	4.21	9.20	4.16	9.10	4.12
7.0	10.20	2.99	10.10	2.96	10.00	2.93	9.90	2.90	9.80	2.87	9.70	2.84
24.0	13.70	3.44	13.50	3.40	13.40	3.37	13.30	3.34	13.10	3.30	13.00	3.27



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

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3-2. Capacity tables

5) AC090FB4PEH/EU + AC090FCAPEH/EU

Cooling

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

Outdoor temperature (°C, DB)	Indoor temperature (°C, WB)																	
	14.0			16.0			18.0			19.0			22.0			24.0		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
-15.0	10.00	8.00	2.02	10.20	8.20	2.07	10.50	8.40	2.12	10.70	8.60	2.17	11.00	8.80	2.23	11.20	9.00	2.28
21.0	10.40	8.30	2.09	10.60	8.50	2.15	10.90	8.70	2.20	11.20	8.90	2.25	11.40	9.10	2.31	11.70	9.40	2.36
35.0	8.40	6.70	2.46	8.60	6.90	2.52	8.80	7.00	2.59	9.00	7.20	2.65	9.20	7.40	2.71	9.40	7.50	2.78
43.0	6.60	5.30	2.83	6.80	5.40	2.90	6.90	5.60	2.97	7.10	5.70	3.05	7.30	5.80	3.12	7.50	6.00	3.20
50.0	5.40	4.30	2.59	5.60	4.50	2.65	5.70	4.60	2.72	5.80	4.70	2.78	6.00	4.80	2.85	6.10	4.90	2.92

Heating

TC : Total Capacity, PI: Power Input

Outdoor temperature (°C, DB)	Indoor temperature (°C, DB)											
	16.0		18.0		20.0		21.0		22.0		24.0	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
-20.0	7.00	3.35	7.00	3.32	6.90	3.29	6.80	3.25	6.80	3.22	6.70	3.19
-10.0	9.60	3.89	9.50	3.85	9.40	3.81	9.30	3.78	9.20	3.74	9.10	3.70
7.0	10.20	2.68	10.10	2.66	10.00	2.63	9.90	2.60	9.80	2.58	9.70	2.55
24.0	13.70	3.09	13.50	3.05	13.40	3.02	13.30	2.99	13.10	2.96	13.00	2.93

6) AC100FB4DEH/EU + AC100FCADEH/EU

Cooling

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

Outdoor temperature (°C, DB)	Indoor temperature (°C, WB)																	
	14.0			16.0			18.0			19.0			22.0			24.0		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
-15.0	11.10	8.90	2.53	11.30	9.10	2.59	11.60	9.30	2.66	11.90	9.50	2.72	12.20	9.70	2.79	12.50	10.00	2.85
21.0	11.50	9.20	2.62	11.80	9.40	2.69	12.10	9.70	2.75	12.40	9.90	2.82	12.70	10.20	2.89	13.00	10.40	2.96
35.0	9.30	7.40	3.09	9.50	7.60	3.16	9.80	7.80	3.24	10.00	8.00	3.32	10.20	8.20	3.40	10.50	8.40	3.48
43.0	7.30	5.90	3.55	7.50	6.00	3.64	7.70	6.20	3.73	7.90	6.30	3.82	8.10	6.50	3.91	8.30	6.60	4.00
50.0	6.00	4.80	3.24	6.20	4.90	3.32	6.30	5.10	3.40	6.50	5.20	3.49	6.60	5.30	3.57	6.80	5.40	3.66

Heating

TC : Total Capacity PI: Power Input

Outdoor temperature (°C, DB)	Indoor temperature (°C, DB)											
	16.0		18.0		20.0		21.0		22.0		24.0	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
-20.0	7.90	4.18	7.80	4.14	7.70	4.10	7.70	4.06	7.60	4.02	7.50	3.98
-10.0	10.70	4.85	10.60	4.80	10.50	4.76	10.40	4.71	10.30	4.66	10.20	4.61
7.0	11.40	3.35	11.30	3.31	11.20	3.28	11.10	3.25	11.00	3.21	10.90	3.18
24.0	15.30	3.85	15.20	3.81	15.00	3.77	14.90	3.73	14.70	3.70	14.60	3.66



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

7) AC100FB4DEH/EU + AC100FCADGH/EU

Cooling

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

Outdoor temperature (°C, DB)	Indoor temperature (°C, WB)																	
	14.0			16.0			18.0			19.0			22.0			24.0		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15.0	11.10	8.90	2.53	11.30	9.10	2.59	11.60	9.30	2.66	11.90	9.50	2.72	12.20	9.70	2.79	12.50	10.00	2.85
21.0	11.50	9.20	2.62	11.80	9.40	2.69	12.10	9.70	2.75	12.40	9.90	2.82	12.70	10.20	2.89	13.00	10.40	2.96
35.0	9.30	7.40	3.09	9.50	7.60	3.16	9.80	7.80	3.24	10.00	8.00	3.32	10.20	8.20	3.40	10.50	8.40	3.48
43.0	7.30	5.90	3.55	7.50	6.00	3.64	7.70	6.20	3.73	7.90	6.30	3.82	8.10	6.50	3.91	8.30	6.60	4.00
50.0	6.00	4.80	3.24	6.20	4.90	3.32	6.30	5.10	3.40	6.50	5.20	3.49	6.60	5.30	3.57	6.80	5.40	3.66

Heating

TC : Total Capacity, PI: Power Input

Outdoor temperature (°C, DB)	Indoor temperature (°C, DB)											
	16.0		18.0		20.0		21.0		22.0		24.0	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20.0	7.90	4.18	7.80	4.14	7.70	4.10	7.70	4.06	7.60	4.02	7.50	3.98
-10.0	10.70	4.85	10.60	4.80	10.50	4.76	10.40	4.71	10.30	4.66	10.20	4.61
7.0	11.40	3.35	11.30	3.31	11.20	3.28	11.10	3.25	11.00	3.21	10.90	3.18
24.0	15.30	3.85	15.20	3.81	15.00	3.77	14.90	3.73	14.70	3.70	14.60	3.66

8) AC100FB4FEH/EU + AC100FCAFEH/EU

Cooling

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

Outdoor temperature (°C, DB)	Indoor temperature (°C, WB)																	
	14.0			16.0			18.0			19.0			22.0			24.0		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15.0	11.10	8.90	1.81	11.30	9.10	1.86	11.60	9.30	1.90	11.90	9.50	1.95	12.20	9.70	2.00	12.50	10.00	2.05
21.0	11.50	9.20	1.88	11.80	9.40	1.93	12.10	9.70	1.97	12.40	9.90	2.02	12.70	10.20	2.07	13.00	10.40	2.12
35.0	9.30	7.40	2.21	9.50	7.60	2.27	9.80	7.80	2.32	10.00	8.00	2.38	10.20	8.20	2.44	10.50	8.40	2.50
43.0	7.30	5.90	2.54	7.50	6.00	2.61	7.70	6.20	2.67	7.90	6.30	2.74	8.10	6.50	2.80	8.30	6.60	2.87
50.0	6.00	4.80	2.32	6.20	4.90	2.38	6.30	5.10	2.44	6.50	5.20	2.50	6.60	5.30	2.56	6.80	5.40	2.62

Heating

TC : Total Capacity PI: Power Input

Outdoor temperature (°C, DB)	Indoor temperature (°C, DB)											
	16.0		18.0		20.0		21.0		22.0		24.0	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20.0	7.90	3.14	7.80	3.11	7.70	3.08	7.70	3.04	7.60	3.01	7.50	2.98
-10.0	10.70	3.64	10.60	3.60	10.50	3.57	10.40	3.53	10.30	3.50	10.20	3.46
7.0	11.40	2.51	11.30	2.48	11.20	2.46	11.10	2.44	11.00	2.41	10.90	2.39
24.0	15.30	2.89	15.20	2.86	15.00	2.83	14.90	2.80	14.70	2.77	14.60	2.74



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

3 4 way cassette S

3-2. Capacity tables

9) AC100FB4PEH/EU + AC100FCAPEH/EU

Cooling

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

Outdoor temperature (°C, DB)	Indoor temperature (°C, WB)																	
	14.0			16.0			18.0			19.0			22.0			24.0		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15.0	11.10	8.90	1.91	11.30	9.10	1.95	11.60	9.30	2.00	11.90	9.50	2.05	12.20	9.70	2.10	12.50	10.00	2.15
21.0	11.50	9.20	1.98	11.80	9.40	2.02	12.10	9.70	2.07	12.40	9.90	2.13	12.70	10.20	2.18	13.00	10.40	2.23
35.0	9.30	7.40	2.32	9.50	7.60	2.38	9.80	7.80	2.44	10.00	8.00	2.50	10.20	8.20	2.56	10.50	8.40	2.62
43.0	7.30	5.90	2.67	7.50	6.00	2.74	7.70	6.20	2.81	7.90	6.30	2.88	8.10	6.50	2.94	8.30	6.60	3.01
50.0	6.00	4.80	2.44	6.20	4.90	2.50	6.30	5.10	2.56	6.50	5.20	2.63	6.60	5.30	2.69	6.80	5.40	2.75

Heating

TC : Total Capacity, PI: Power Input

Outdoor temperature (°C, DB)	Indoor temperature (°C, DB)											
	16.0		18.0		20.0		21.0		22.0		24.0	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20.0	7.90	3.32	7.80	3.28	7.70	3.25	7.70	3.22	7.60	3.19	7.50	3.15
-10.0	10.70	3.85	10.60	3.81	10.50	3.77	10.40	3.73	10.30	3.69	10.20	3.66
7.0	11.40	2.65	11.30	2.63	11.20	2.60	11.10	2.57	11.00	2.55	10.90	2.52
24.0	15.30	3.05	15.20	3.02	15.00	2.99	14.90	2.96	14.70	2.93	14.60	2.90

10) AC100FB4PEH/EU + AC100FCAPGH/EU

Cooling

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

Outdoor temperature (°C, DB)	Indoor temperature (°C, WB)																	
	14.0			16.0			18.0			19.0			22.0			24.0		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15.0	11.10	8.90	1.91	11.30	9.10	1.95	11.60	9.30	2.00	11.90	9.50	2.05	12.20	9.70	2.10	12.50	10.00	2.15
21.0	11.50	9.20	1.98	11.80	9.40	2.02	12.10	9.70	2.07	12.40	9.90	2.13	12.70	10.20	2.18	13.00	10.40	2.23
35.0	9.30	7.40	2.32	9.50	7.60	2.38	9.80	7.80	2.44	10.00	8.00	2.50	10.20	8.20	2.56	10.50	8.40	2.62
43.0	7.30	5.90	2.67	7.50	6.00	2.74	7.70	6.20	2.81	7.90	6.30	2.88	8.10	6.50	2.94	8.30	6.60	3.01
50.0	6.00	4.80	2.44	6.20	4.90	2.50	6.30	5.10	2.56	6.50	5.20	2.63	6.60	5.30	2.69	6.80	5.40	2.75

Heating

TC : Total Capacity PI: Power Input

Outdoor temperature (°C, DB)	Indoor temperature (°C, DB)											
	16.0		18.0		20.0		21.0		22.0		24.0	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20.0	7.90	3.32	7.80	3.28	7.70	3.25	7.70	3.22	7.60	3.19	7.50	3.15
-10.0	10.70	3.85	10.60	3.81	10.50	3.77	10.40	3.73	10.30	3.69	10.20	3.66
7.0	11.40	2.65	11.30	2.63	11.20	2.60	11.10	2.57	11.00	2.55	10.90	2.52
24.0	15.30	3.05	15.20	3.02	15.00	2.99	14.90	2.96	14.70	2.93	14.60	2.90



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

11) NS1254DXEA + RC125DHXEB

Cooling

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

Outdoor temperature (°C, DB)	Indoor temperature (°C, WB)																	
	14.0			16.0			18.0			19.0			22.0			24.0		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15.0	13.80	11.10	2.97	14.20	11.30	3.04	14.50	11.60	3.11	14.90	11.90	3.19	15.20	12.20	3.27	15.60	12.50	3.34
21.0	14.40	11.50	3.07	14.80	11.80	3.15	15.10	12.10	3.23	15.50	12.40	3.31	15.90	12.70	3.39	16.30	13.00	3.47
35.0	11.60	9.30	3.62	11.90	9.50	3.71	12.20	9.80	3.80	12.50	10.00	3.89	12.80	10.20	3.98	13.10	10.50	4.08
43.0	9.20	7.30	4.16	9.40	7.50	4.26	9.60	7.70	4.37	9.90	7.90	4.47	10.10	8.10	4.58	10.40	8.30	4.69
50.0	7.50	6.00	3.80	7.70	6.20	3.89	7.90	6.30	3.99	8.10	6.50	4.08	8.30	6.60	4.18	8.50	6.80	4.28

Heating

TC : Total Capacity, PI: Power Input

Outdoor temperature (°C, DB)	Indoor temperature (°C, DB)											
	16.0		18.0		20.0		21.0		22.0		24.0	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20.0	9.90	4.95	9.80	4.90	9.70	4.85	9.60	4.80	9.50	4.75	9.40	4.71
-10.0	13.40	5.74	13.30	5.68	13.20	5.63	13.00	5.57	12.90	5.51	12.80	5.46
7.0	14.30	3.96	14.10	3.92	14.00	3.88	13.90	3.84	13.70	3.80	13.60	3.76
24.0	19.10	4.55	18.90	4.51	18.80	4.46	18.60	4.42	18.40	4.37	18.20	4.33

12) NS1254DXEA + RC125DHXGA

Cooling

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

Outdoor temperature (°C, DB)	Indoor temperature (°C, WB)																	
	14.0			16.0			18.0			19.0			22.0			24.0		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15.0	13.80	11.10	2.97	14.20	11.30	3.04	14.50	11.60	3.11	14.90	11.90	3.19	15.20	12.20	3.27	15.60	12.50	3.34
21.0	14.40	11.50	3.07	14.80	11.80	3.15	15.10	12.10	3.23	15.50	12.40	3.31	15.90	12.70	3.39	16.30	13.00	3.47
35.0	11.60	9.30	3.62	11.90	9.50	3.71	12.20	9.80	3.80	12.50	10.00	3.89	12.80	10.20	3.98	13.10	10.50	4.08
43.0	9.20	7.30	4.16	9.40	7.50	4.26	9.60	7.70	4.37	9.90	7.90	4.47	10.10	8.10	4.58	10.40	8.30	4.69
50.0	7.50	6.00	3.80	7.70	6.20	3.89	7.90	6.30	3.99	8.10	6.50	4.08	8.30	6.60	4.18	8.50	6.80	4.28

Heating

TC : Total Capacity PI: Power Input

Outdoor temperature (°C, DB)	Indoor temperature (°C, DB)											
	16.0		18.0		20.0		21.0		22.0		24.0	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20.0	9.90	4.95	9.80	4.90	9.70	4.85	9.60	4.80	9.50	4.75	9.40	4.71
-10.0	13.40	5.74	13.30	5.68	13.20	5.63	13.00	5.57	12.90	5.51	12.80	5.46
7.0	14.30	3.96	14.10	3.92	14.00	3.88	13.90	3.84	13.70	3.80	13.60	3.76
24.0	19.10	4.55	18.90	4.51	18.80	4.46	18.60	4.42	18.40	4.37	18.20	4.33



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

3 4 way cassette S

3-2. Capacity tables

13) NS1254PXEA + RC125PHXGA

Cooling

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

Outdoor temperature (°C, DB)	Indoor temperature (°C, WB)																	
	14.0			16.0			18.0			19.0			22.0			24.0		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
-15.0	13.80	11.10	2.65	14.20	11.30	2.71	14.50	11.60	2.78	14.90	11.90	2.85	15.20	12.20	2.91	15.60	12.50	2.98
21.0	14.40	11.50	2.74	14.80	11.80	2.81	15.10	12.10	2.88	15.50	12.40	2.95	15.90	12.70	3.02	16.30	13.00	3.09
35.0	11.60	9.30	3.23	11.90	9.50	3.31	12.20	9.80	3.39	12.50	10.00	3.47	12.80	10.20	3.55	13.10	10.50	3.64
43.0	9.20	7.30	3.71	9.40	7.50	3.80	9.60	7.70	3.89	9.90	7.90	3.99	10.10	8.10	4.09	10.40	8.30	4.18
50.0	7.50	6.00	3.39	7.70	6.20	3.47	7.90	6.30	3.56	8.10	6.50	3.64	8.30	6.60	3.73	8.50	6.80	3.82

Heating

TC : Total Capacity, PI: Power Input

Outdoor temperature (°C, DB)	Indoor temperature (°C, DB)											
	16.0		18.0		20.0		21.0		22.0		24.0	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
-20.0	9.90	4.58	9.80	4.53	9.70	4.49	9.60	4.44	9.50	4.40	9.40	4.35
-10.0	13.40	5.31	13.30	5.26	13.20	5.21	13.00	5.15	12.90	5.10	12.80	5.05
7.0	14.30	3.66	14.10	3.63	14.00	3.59	13.90	3.55	13.70	3.52	13.60	3.48
24.0	19.10	4.21	18.90	4.17	18.80	4.13	18.60	4.09	18.40	4.05	18.20	4.01

14) NS1254PXEA + RC125PHXEA

Cooling

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

Outdoor temperature (°C, DB)	Indoor temperature (°C, WB)																	
	14.0			16.0			18.0			19.0			22.0			24.0		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
-15.0	13.80	11.10	2.65	14.20	11.30	2.71	14.50	11.60	2.78	14.90	11.90	2.85	15.20	12.20	2.91	15.60	12.50	2.98
21.0	14.40	11.50	2.74	14.80	11.80	2.81	15.10	12.10	2.88	15.50	12.40	2.95	15.90	12.70	3.02	16.30	13.00	3.09
35.0	11.60	9.30	3.23	11.90	9.50	3.31	12.20	9.80	3.39	12.50	10.00	3.47	12.80	10.20	3.55	13.10	10.50	3.64
43.0	9.20	7.30	3.71	9.40	7.50	3.80	9.60	7.70	3.89	9.90	7.90	3.99	10.10	8.10	4.09	10.40	8.30	4.18
50.0	7.50	6.00	3.39	7.70	6.20	3.47	7.90	6.30	3.56	8.10	6.50	3.64	8.30	6.60	3.73	8.50	6.80	3.82

Heating

TC : Total Capacity PI: Power Input

Outdoor temperature (°C, DB)	Indoor temperature (°C, DB)											
	16.0		18.0		20.0		21.0		22.0		24.0	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
-20.0	9.90	4.58	9.80	4.53	9.70	4.49	9.60	4.44	9.50	4.40	9.40	4.35
-10.0	13.40	5.31	13.30	5.26	13.20	5.21	13.00	5.15	12.90	5.10	12.80	5.05
7.0	14.30	3.66	14.10	3.63	14.00	3.59	13.90	3.55	13.70	3.52	13.60	3.48
24.0	19.10	4.21	18.90	4.17	18.80	4.13	18.60	4.09	18.40	4.05	18.20	4.01



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

15) NS1404DXEA + RC140DHXEB

Cooling

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

Outdoor temperature (°C, DB)	Indoor temperature (°C, WB)																	
	14.0			16.0			18.0			19.0			22.0			24.0		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15.0	15.50	12.40	3.32	15.90	12.70	3.41	16.30	13.00	3.49	16.70	13.30	3.58	17.10	13.60	3.66	17.50	14.00	3.75
21.0	16.10	12.90	3.45	16.50	13.20	3.53	16.90	13.60	3.62	17.40	13.90	3.71	17.80	14.20	3.79	18.20	14.60	3.89
35.0	13.00	10.40	4.05	13.30	10.70	4.15	13.70	10.90	4.26	14.00	11.20	4.36	14.30	11.50	4.46	14.70	11.70	4.57
43.0	10.30	8.20	4.66	10.50	8.40	4.78	10.80	8.60	4.89	11.10	8.80	5.01	11.30	9.10	5.13	11.60	9.30	5.26
50.0	8.40	6.80	4.26	8.70	6.90	4.36	8.90	7.10	4.47	9.10	7.30	4.58	9.30	7.40	4.69	9.50	7.60	4.80

Heating

TC : Total Capacity, PI: Power Input

Outdoor temperature (°C, DB)	Indoor temperature (°C, DB)											
	16.0		18.0		20.0		21.0		22.0		24.0	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20.0	11.30	5.65	11.20	5.59	11.00	5.54	10.90	5.48	10.80	5.43	10.70	5.37
-10.0	15.30	6.55	15.20	6.49	15.00	6.42	14.90	6.36	14.70	6.30	14.60	6.23
7.0	16.30	4.52	16.20	4.47	16.00	4.43	15.80	4.39	15.70	4.34	15.50	4.30
24.0	21.90	5.20	21.70	5.15	21.40	5.09	21.20	5.04	21.00	4.99	20.80	4.94

16) NS1404DXEA + RC140DHXGA

Cooling

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

Outdoor temperature (°C, DB)	Indoor temperature (°C, WB)																	
	14.0			16.0			18.0			19.0			22.0			24.0		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15.0	15.50	12.40	3.32	15.90	12.70	3.41	16.30	13.00	3.49	16.70	13.30	3.58	17.10	13.60	3.66	17.50	14.00	3.75
21.0	16.10	12.90	3.45	16.50	13.20	3.53	16.90	13.60	3.62	17.40	13.90	3.71	17.80	14.20	3.79	18.20	14.60	3.89
35.0	13.00	10.40	4.05	13.30	10.70	4.15	13.70	10.90	4.26	14.00	11.20	4.36	14.30	11.50	4.46	14.70	11.70	4.57
43.0	10.30	8.20	4.66	10.50	8.40	4.78	10.80	8.60	4.89	11.10	8.80	5.01	11.30	9.10	5.13	11.60	9.30	5.26
50.0	8.40	6.80	4.26	8.70	6.90	4.36	8.90	7.10	4.47	9.10	7.30	4.58	9.30	7.40	4.69	9.50	7.60	4.80

Heating

TC : Total Capacity PI: Power Input

Outdoor temperature (°C, DB)	Indoor temperature (°C, DB)											
	16.0		18.0		20.0		21.0		22.0		24.0	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20.0	11.30	5.65	11.20	5.59	11.00	5.54	10.90	5.48	10.80	5.43	10.70	5.37
-10.0	15.30	6.55	15.20	6.49	15.00	6.42	14.90	6.36	14.70	6.30	14.60	6.23
7.0	16.30	4.52	16.20	4.47	16.00	4.43	15.80	4.39	15.70	4.34	15.50	4.30
24.0	21.90	5.20	21.70	5.15	21.40	5.09	21.20	5.04	21.00	4.99	20.80	4.94



Note

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

3 4 way cassette S

3-2. Capacity tables

17) NS1404PXEA + RC140PHXEA

Cooling

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

Outdoor temperature (°C, DB)	Indoor temperature (°C, WB)																	
	14.0			16.0			18.0			19.0			22.0			24.0		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
-15.0	15.50	12.40	3.05	15.90	12.70	3.12	16.30	13.00	3.20	16.70	13.30	3.28	17.10	13.60	3.36	17.50	14.00	3.44
21.0	16.10	12.90	3.16	16.50	13.20	3.24	16.90	13.60	3.32	17.40	13.90	3.40	17.80	14.20	3.48	18.20	14.60	3.57
35.0	13.00	10.40	3.72	13.30	10.70	3.81	13.70	10.90	3.90	14.00	11.20	4.00	14.30	11.50	4.10	14.70	11.70	4.19
43.0	10.30	8.20	4.28	10.50	8.40	4.38	10.80	8.60	4.49	11.10	8.80	4.60	11.30	9.10	4.71	11.60	9.30	4.82
50.0	8.40	6.80	3.90	8.70	6.90	4.00	8.90	7.10	4.10	9.10	7.30	4.20	9.30	7.40	4.30	9.50	7.60	4.40

Heating

TC : Total Capacity, PI: Power Input

Outdoor temperature (°C, DB)	Indoor temperature (°C, DB)											
	16.0		18.0		20.0		21.0		22.0		24.0	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
-20.0	11.30	5.23	11.20	5.18	11.00	5.13	10.90	5.07	10.80	5.02	10.70	4.97
-10.0	15.30	6.06	15.20	6.00	15.00	5.95	14.90	5.89	14.70	5.83	14.60	5.77
7.0	16.30	4.18	16.20	4.14	16.00	4.10	15.80	4.06	15.70	4.02	15.50	3.98
24.0	21.90	4.81	21.70	4.76	21.40	4.72	21.20	4.67	21.00	4.62	20.80	4.57

18) NS1404PXEA + RC140PHXGA

Cooling

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

Outdoor temperature (°C, DB)	Indoor temperature (°C, WB)																	
	14.0			16.0			18.0			19.0			22.0			24.0		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
-15.0	15.50	12.40	3.05	15.90	12.70	3.12	16.30	13.00	3.20	16.70	13.30	3.28	17.10	13.60	3.36	17.50	14.00	3.44
21.0	16.10	12.90	3.16	16.50	13.20	3.24	16.90	13.60	3.32	17.40	13.90	3.40	17.80	14.20	3.48	18.20	14.60	3.57
35.0	13.00	10.40	3.72	13.30	10.70	3.81	13.70	10.90	3.90	14.00	11.20	4.00	14.30	11.50	4.10	14.70	11.70	4.19
43.0	10.30	8.20	4.28	10.50	8.40	4.38	10.80	8.60	4.49	11.10	8.80	4.60	11.30	9.10	4.71	11.60	9.30	4.82
50.0	8.40	6.80	3.90	8.70	6.90	4.00	8.90	7.10	4.10	9.10	7.30	4.20	9.30	7.40	4.30	9.50	7.60	4.40

Heating

TC : Total Capacity PI: Power Input

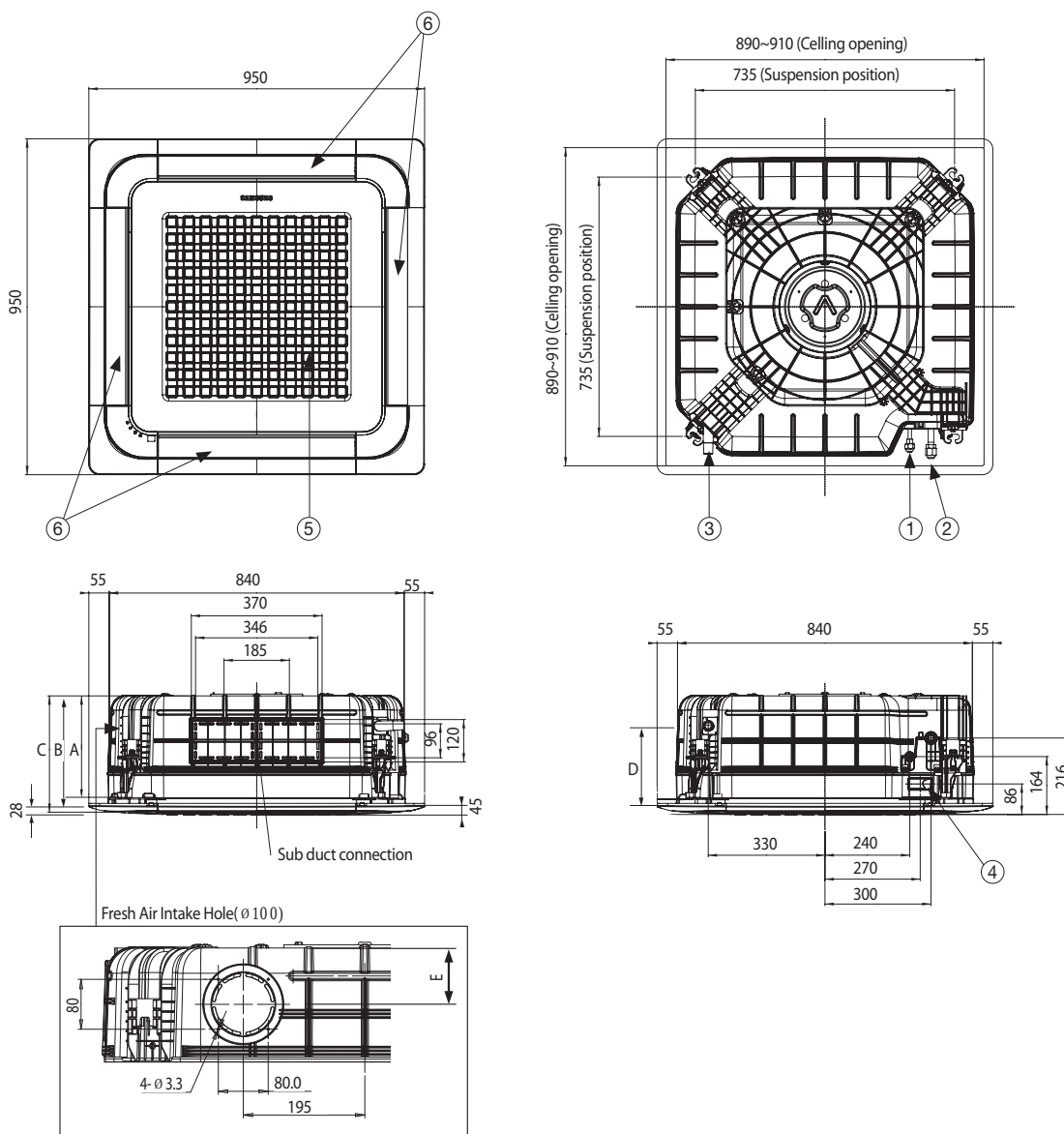
Outdoor temperature (°C, DB)	Indoor temperature (°C, DB)											
	16.0		18.0		20.0		21.0		22.0		24.0	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
-20.0	11.30	5.23	11.20	5.18	11.00	5.13	10.90	5.07	10.80	5.02	10.70	4.97
-10.0	15.30	6.06	15.20	6.00	15.00	5.95	14.90	5.89	14.70	5.83	14.60	5.77
7.0	16.30	4.18	16.20	4.14	16.00	4.10	15.80	4.06	15.70	4.02	15.50	3.98
24.0	21.90	4.81	21.70	4.76	21.40	4.72	21.20	4.67	21.00	4.62	20.80	4.57



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

3-3 . Dimensional drawing

Unit:mm

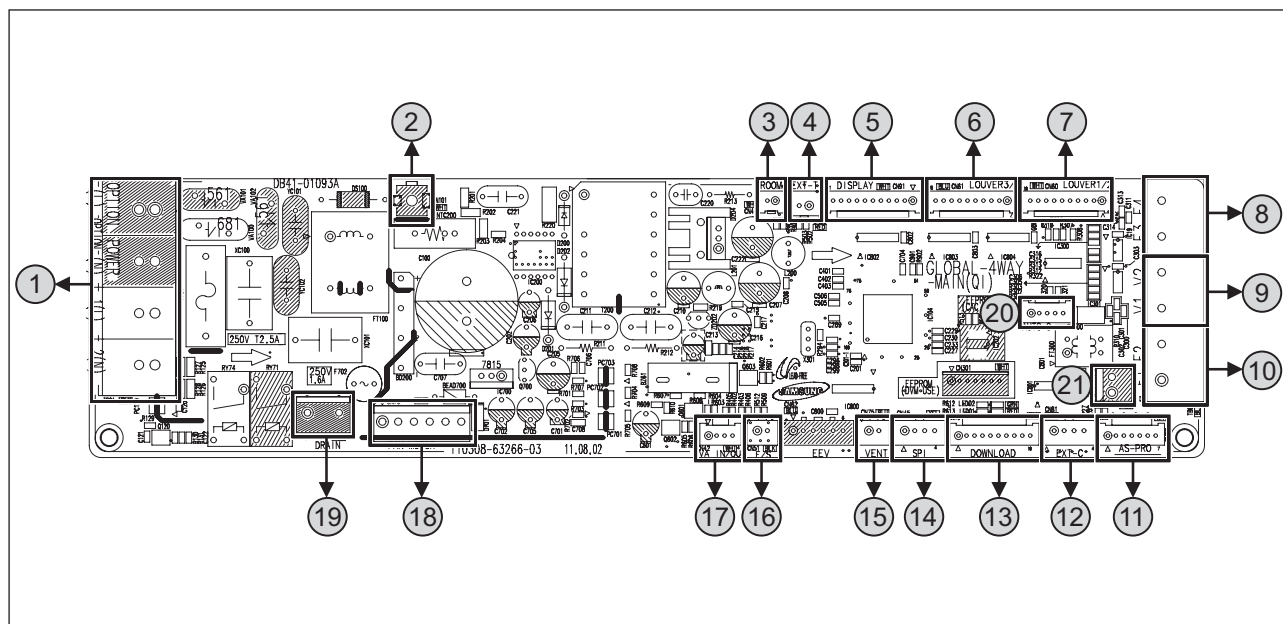


No.	Name	Description	
		7.1kW	9.0/10.0/12.5/14.0kW
①	Liquid pipe connection	Ø6.35mm (1/4") Flare	Ø9.52mm (3/8") Flare
②	Gas pipe connection	Ø15.88mm (5/8") Flare	
③	Drain pipe connection	VP25 (OD32, ID25)	
④	Conduit for power supply & communication wiring	-	
⑤	Air inlet grille	-	
⑥	Air outlet louver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

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

3 4 way cassette S

3-4. PCB connector lay-out



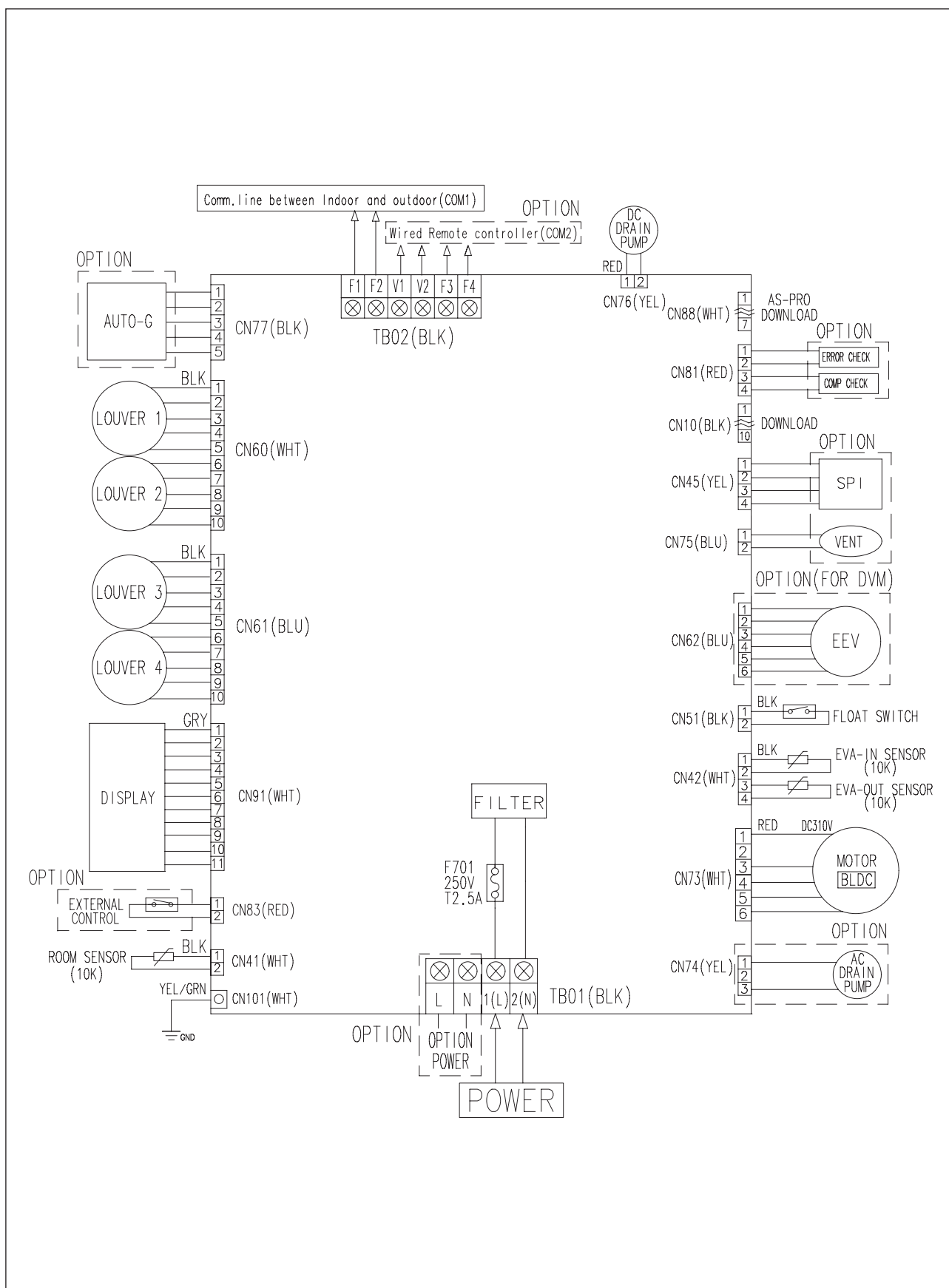
AC

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

DC

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

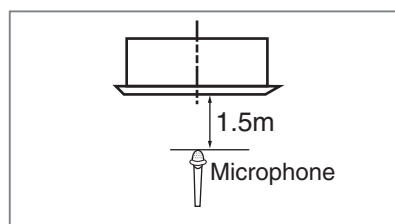
3-5. Electrical wiring diagram



3 4 way cassette S

3-6. Sound pressure level

1) Operation sound level



Unit : dB(A)

Model	High	Low
AC052FB4DEH/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)

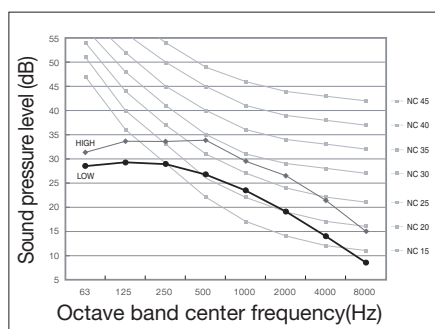
Model	High	Low
AC100FB4PEH/EU	44	34
AC100FB4FEH/EU	45	32
NS1254DXEA	44	36
NS1254PXE	44	36
NS1404DXEA	45	38
NS1404PXE	45	38

Note

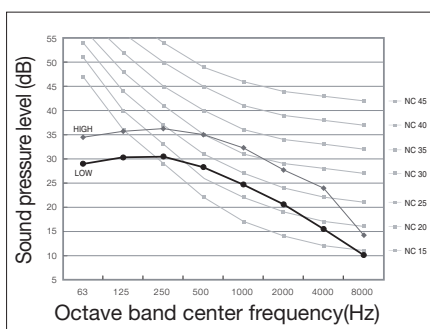
- ◆ These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- ◆ Operation sound level may differ depending on operation and ambient conditions.

2) NC curves

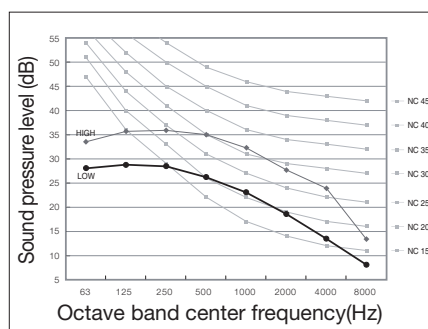
(1) AC052FB4DEH/EU



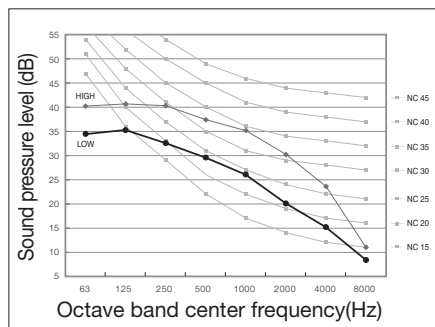
(2) AC071FB4DEH/EU



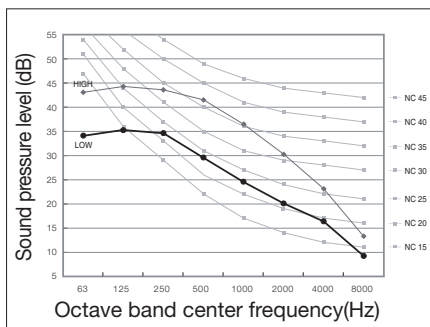
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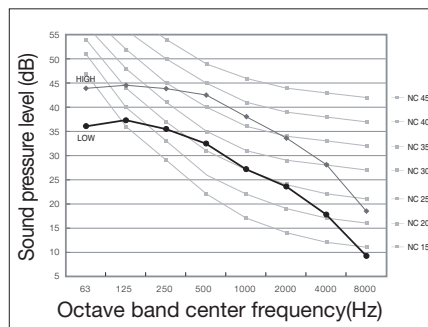
(4) AC090FB4DEH/EU



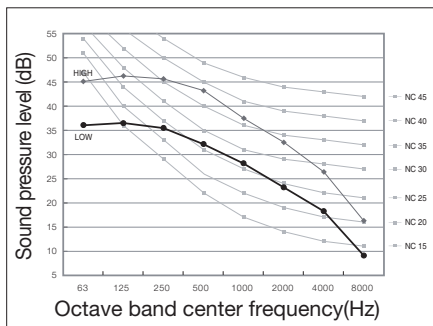
(5) AC090FB4PEH/EU



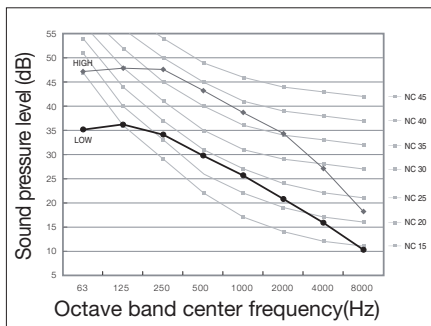
(6) AC100FB4DEH/EU



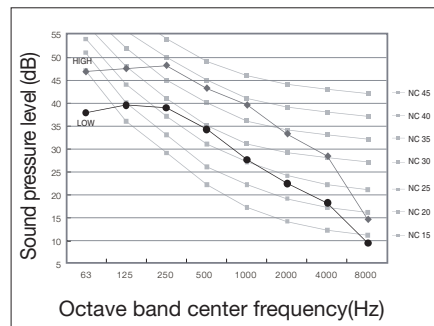
(7) AC100FB4PEH/EU



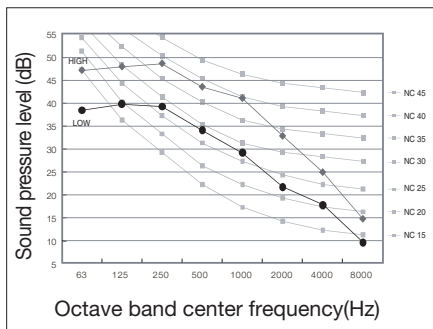
(8) AC100FB4FEH/EU



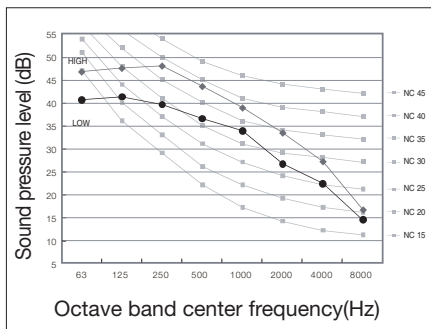
(9) NS1254DXEA



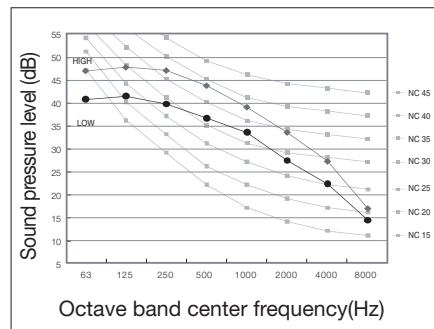
(10) NS1254PXEА



(11) NS1404DXEA



(12) NS1404PXEА



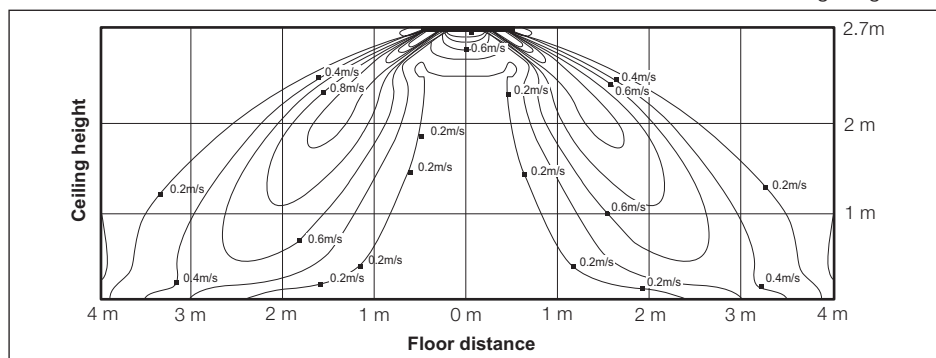
3 4 way cassette S

3-7. Temperature and air flow distribution

1) AC052FB4DEH/EU, AC071FB4DEH/EU

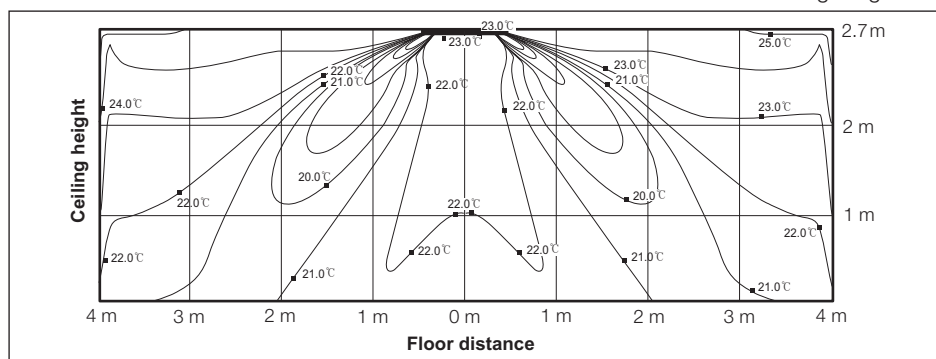
(1) Cooling air velocity distribution

◆ Discharge angle : 45°



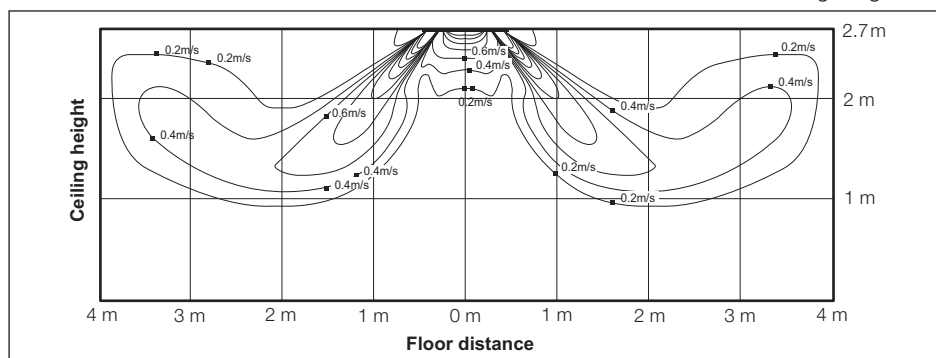
(2) Cooling temperature distribution

◆ Discharge angle : 45°



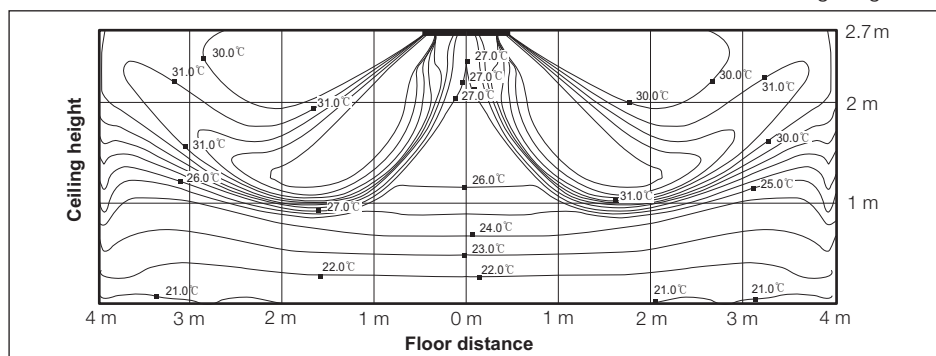
(3) Heating air velocity distribution

◆ Discharge angle : 52°



(4) Heating temperature distribution

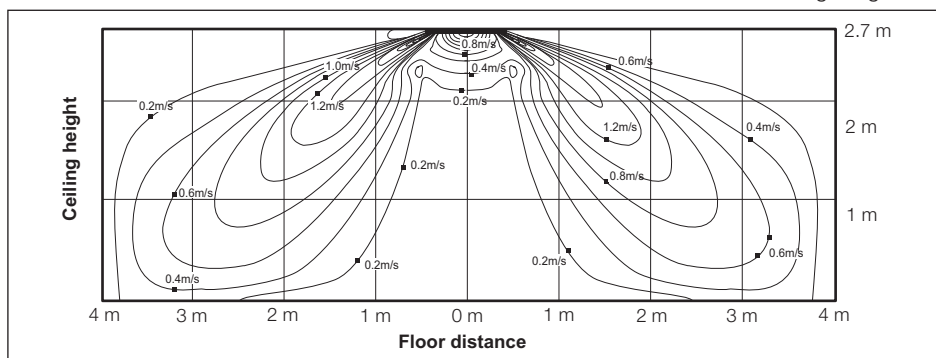
◆ Discharge angle : 52°



2) AC071FB4PEH/EU

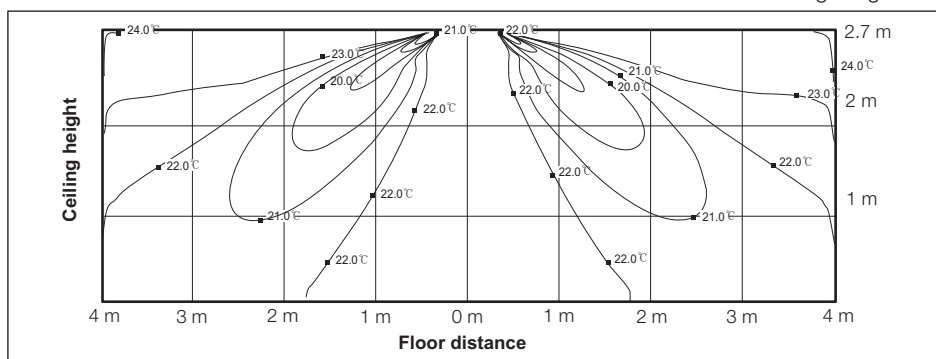
(1) Cooling air velocity distribution

◆ Discharge angle : 45°



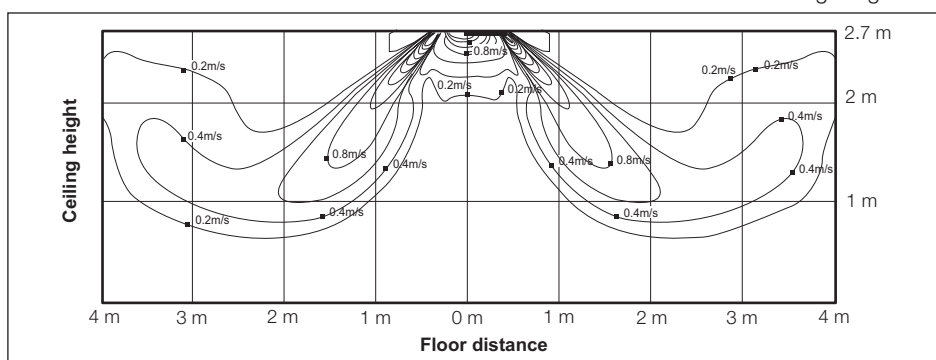
(2) Cooling temperature distribution

◆ Discharge angle : 45°



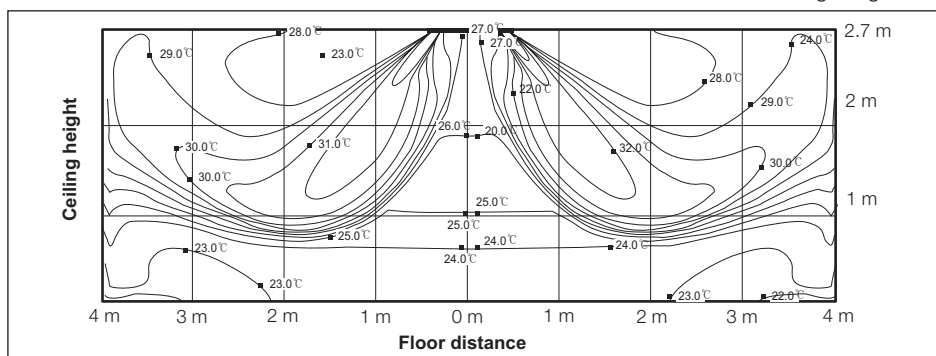
(3) Heating air velocity distribution

◆ Discharge angle : 52°



(4) Heating temperature distribution

◆ Discharge angle : 52°



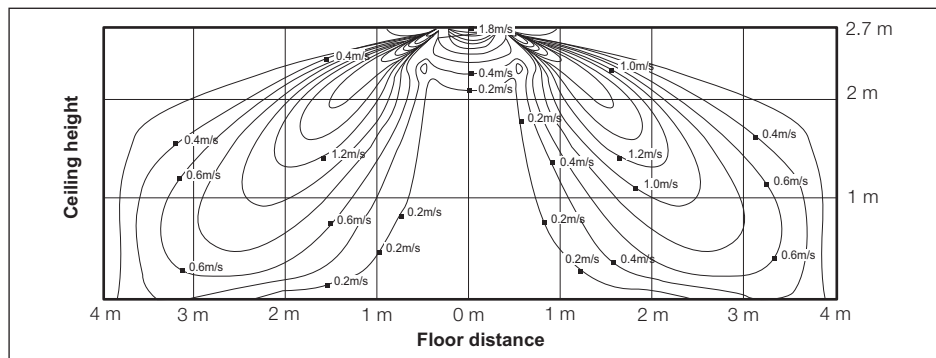
3 4 way cassette S

3-7. Temperature and air flow distribution

3) AC090FB4DEH/EU

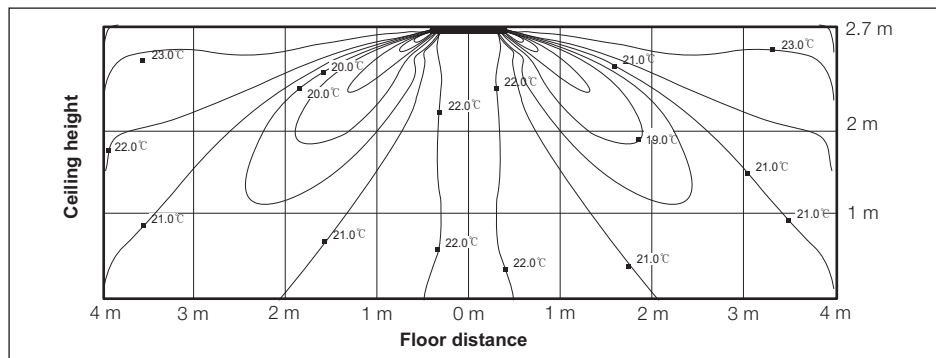
(1) Cooling air velocity distribution

◆ Discharge angle : 45°



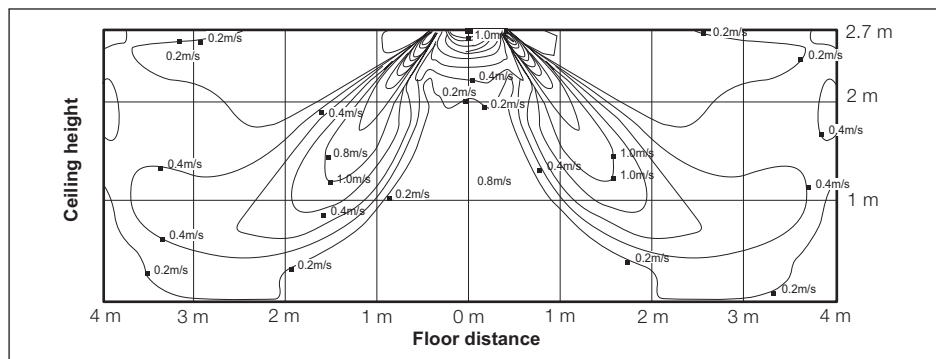
(2) Cooling temperature distribution

◆ Discharge angle : 45°



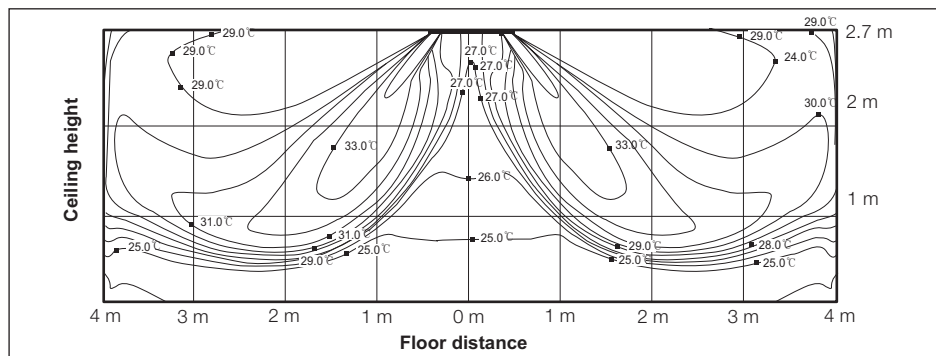
(3) Heating air velocity distribution

◆ Discharge angle : 52°



(4) Heating temperature distribution

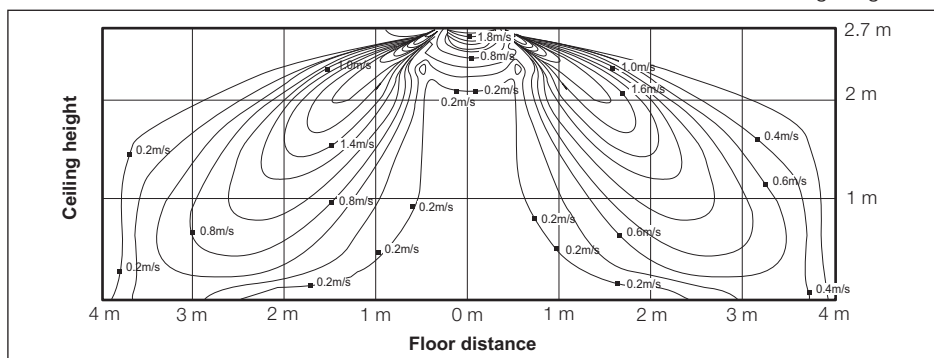
◆ Discharge angle : 52°



4) AC090FB4PEH/EU

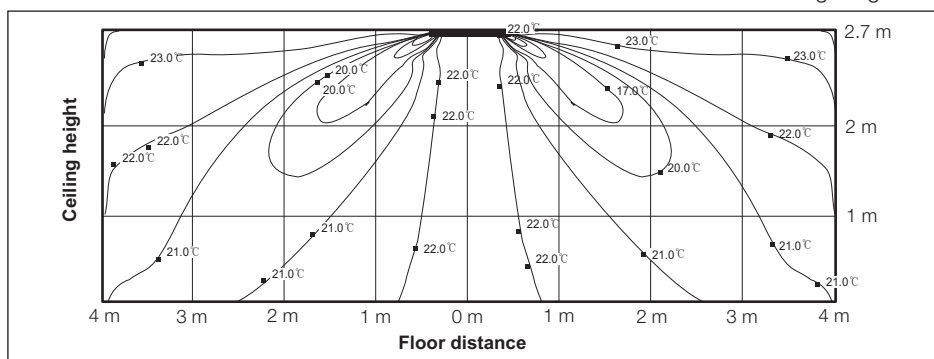
(1) Cooling air velocity distribution

◆ Discharge angle : 45°



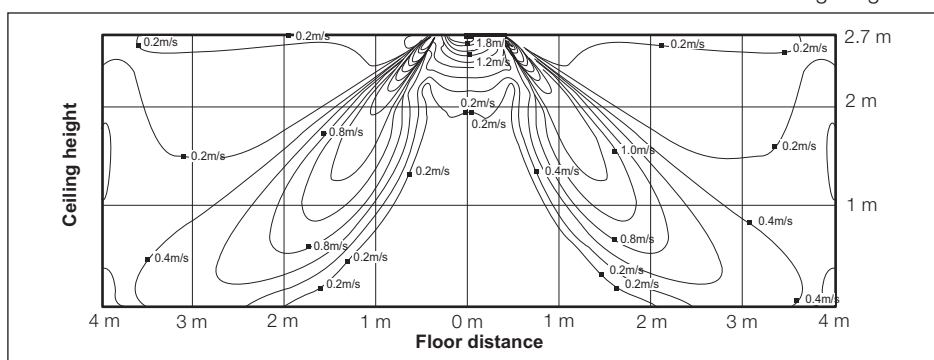
(2) Cooling temperature distribution

◆ Discharge angle : 45°



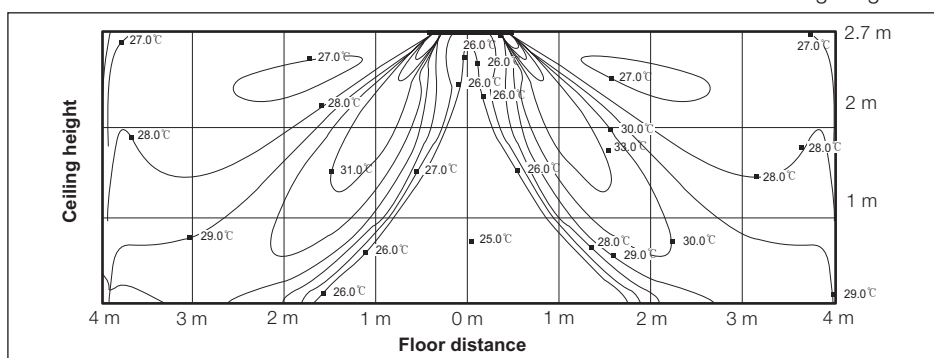
(3) Heating air velocity distribution

◆ Discharge angle : 52°



(4) Heating temperature distribution

◆ Discharge angle : 52°



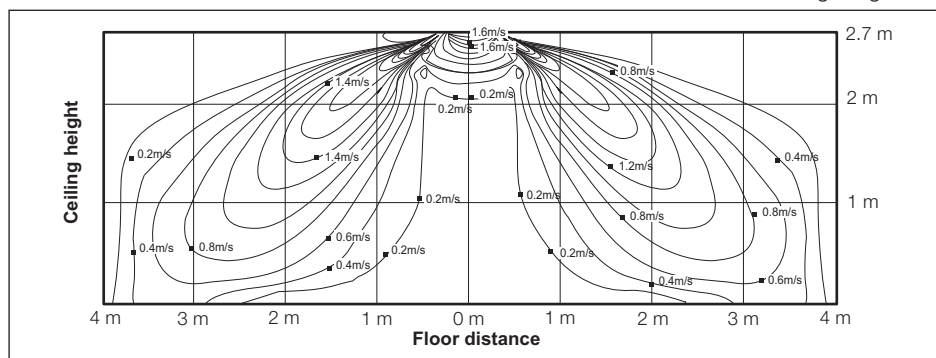
3 4 way cassette S

3-7. Temperature and air flow distribution

5) AC100FB4DEH/EU

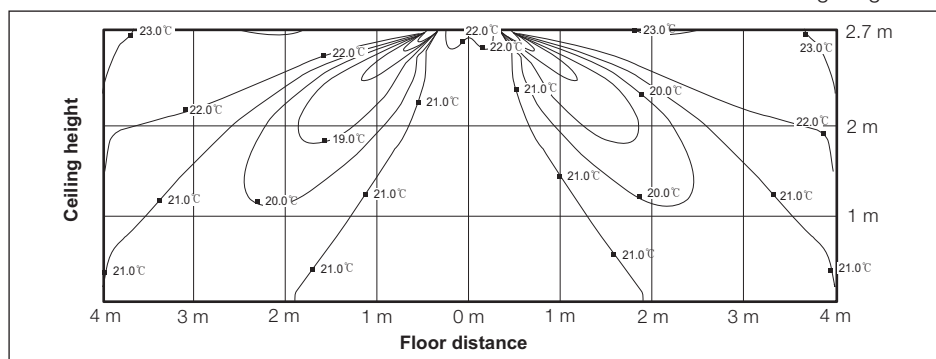
(1) Cooling air velocity distribution

◆ Discharge angle : 45°



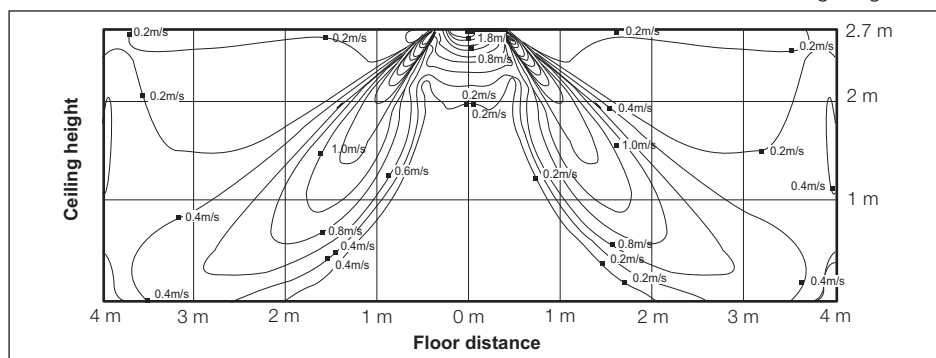
(2) Cooling temperature distribution

◆ Discharge angle : 45°



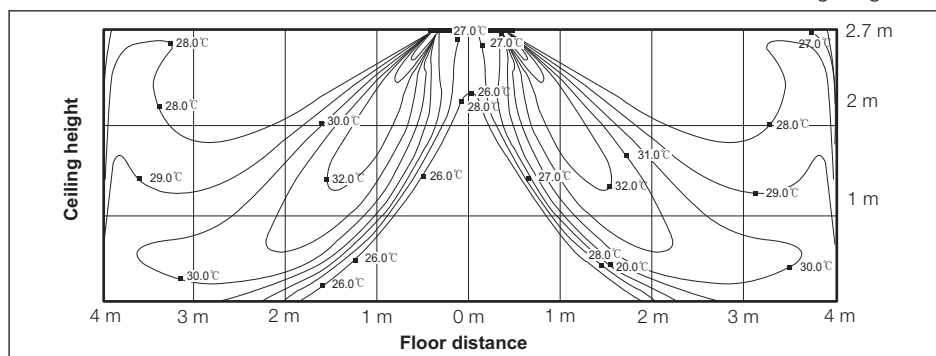
(3) Heating air velocity distribution

◆ Discharge angle : 52°



(4) Heating temperature distribution

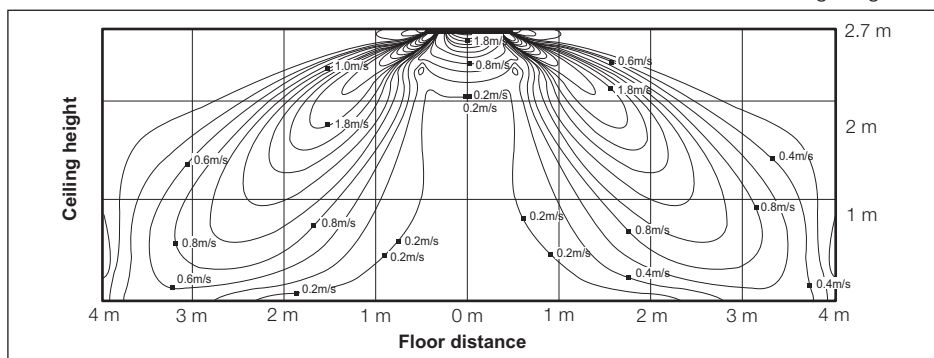
◆ Discharge angle : 52°



6) AC100FB4PEH/EU

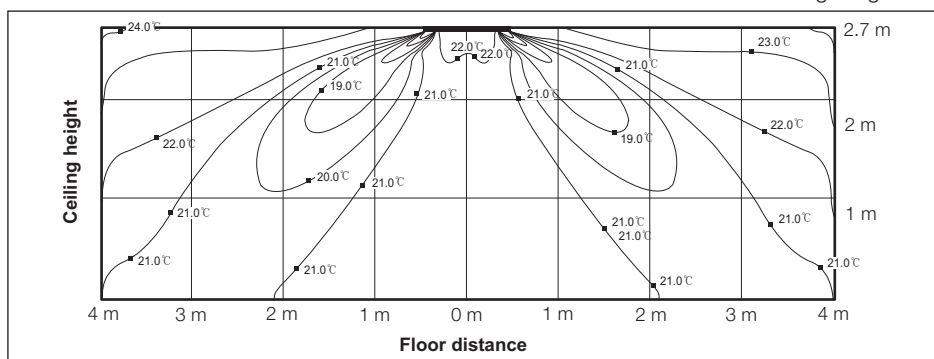
(1) Cooling air velocity distribution

◆ Discharge angle : 45°



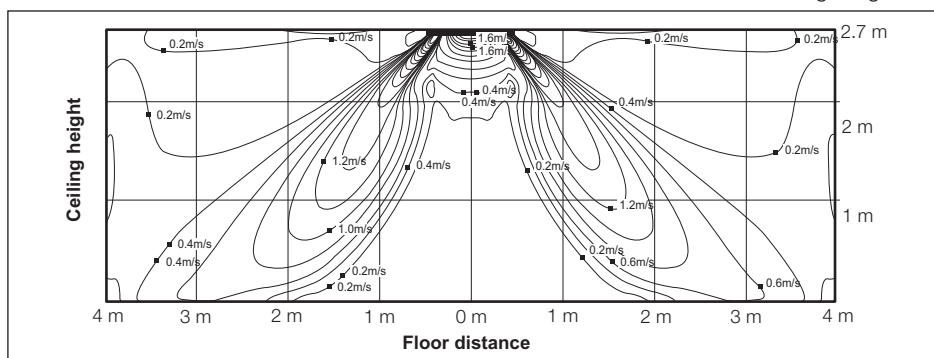
(2) Cooling temperature distribution

◆ Discharge angle : 45°



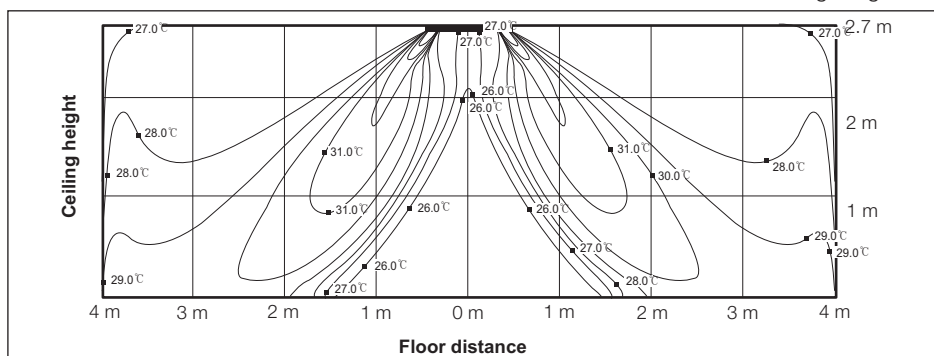
(3) Heating air velocity distribution

◆ Discharge angle : 52°



(4) Heating temperature distribution

◆ Discharge angle : 52°



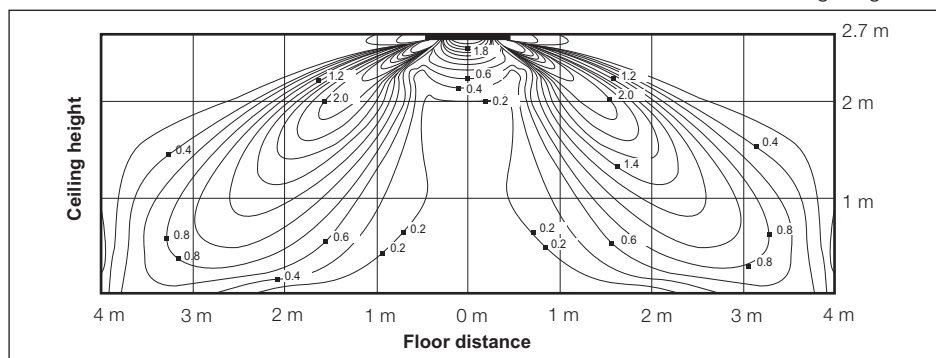
3 4 way cassette S

3-7. Temperature and air flow distribution

7) AC100FB4FEH/EU

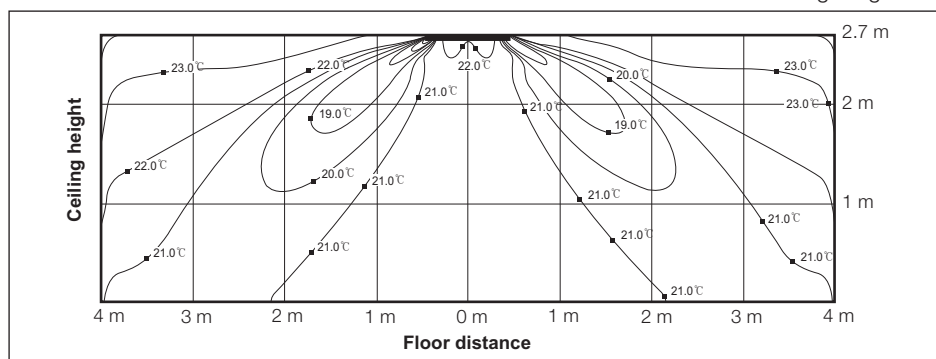
(1) Cooling air velocity distribution

◆ Discharge angle : 45°



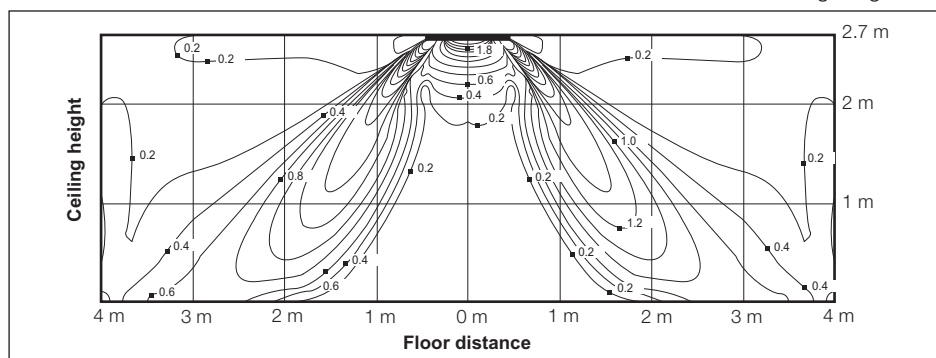
(2) Cooling temperature distribution

◆ Discharge angle : 45°



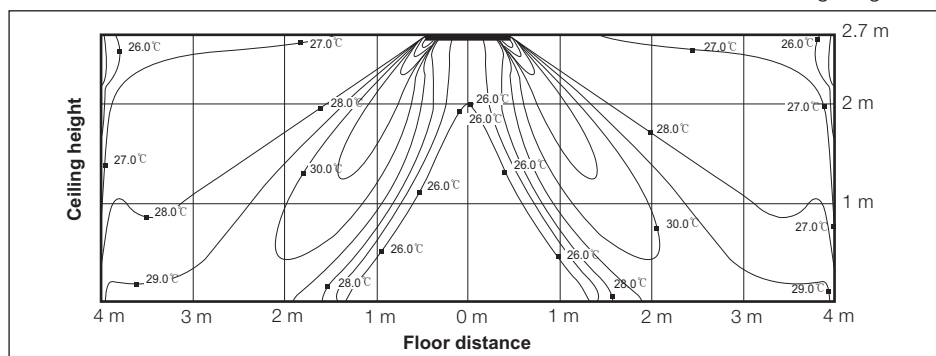
(3) Heating air velocity distribution

◆ Discharge angle : 52°



(4) Heating temperature distribution

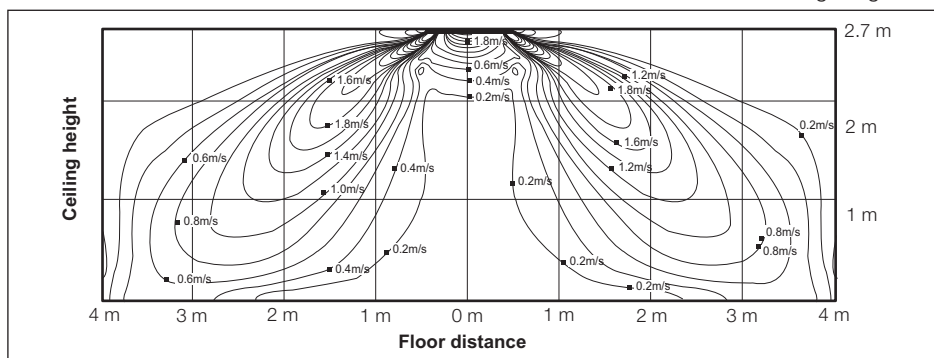
◆ Discharge angle : 52°



8) NS1254DXEA

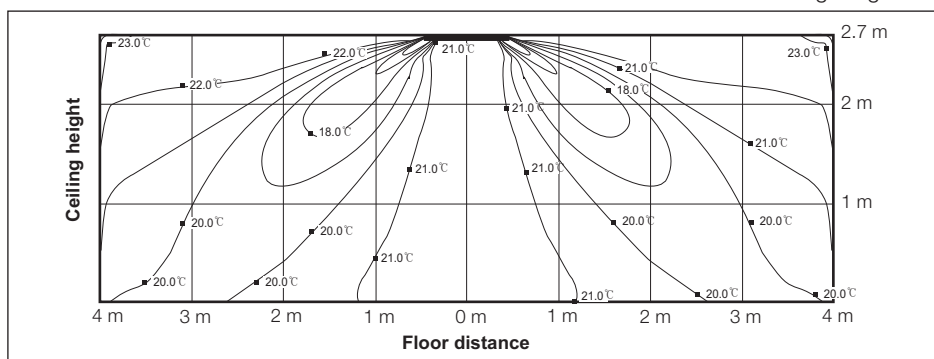
(1) Cooling air velocity distribution

◆ Discharge angle : 45°



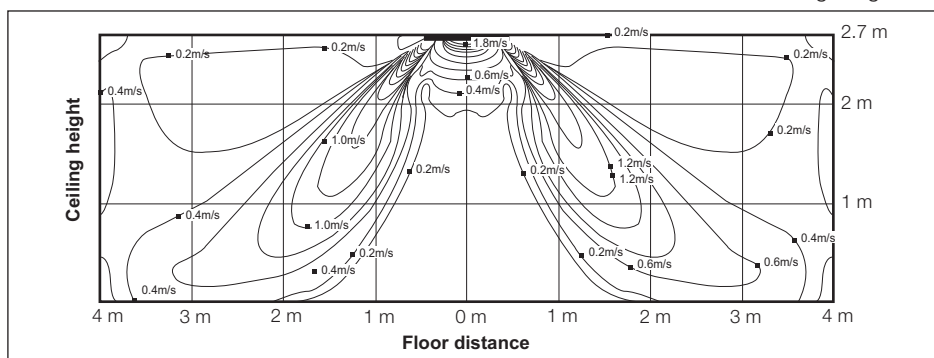
(2) Cooling temperature distribution

◆ Discharge angle : 45°



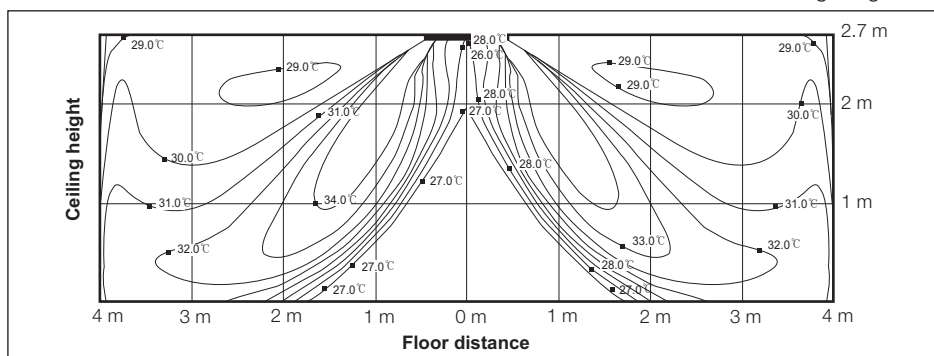
(3) Heating air velocity distribution

◆ Discharge angle : 52°



(4) Heating temperature distribution

◆ Discharge angle : 52°



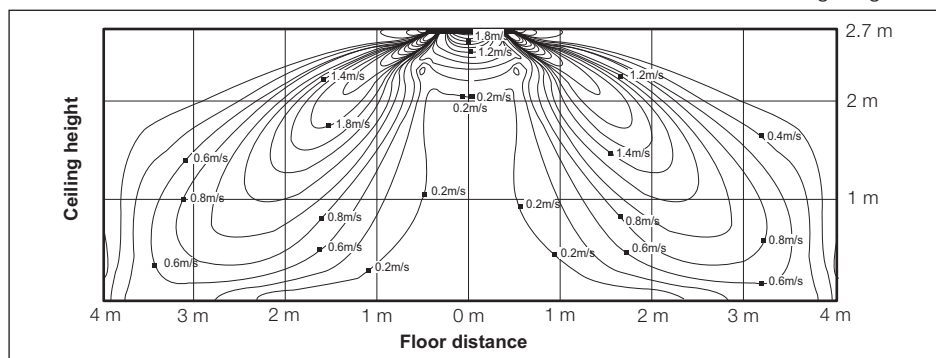
3 4 way cassette S

3-7. Temperature and air flow distribution

9) NS1254PXE A

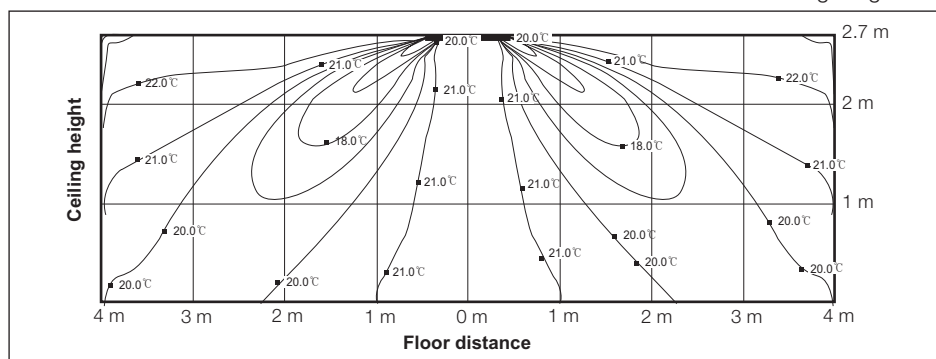
(1) Cooling air velocity distribution

◆ Discharge angle : 45°



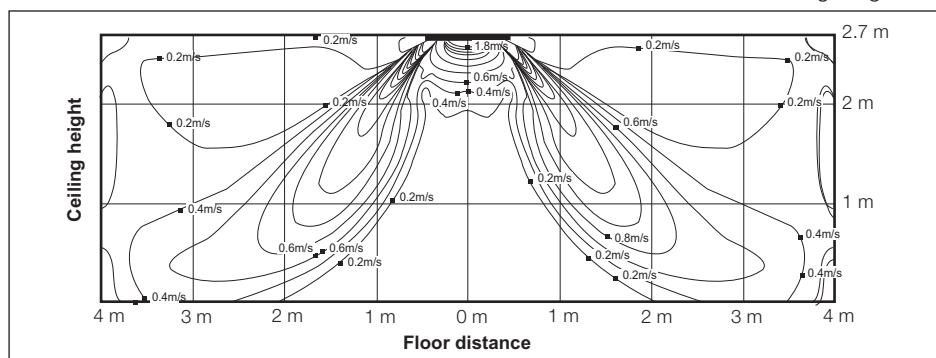
(2) Cooling temperature distribution

◆ Discharge angle : 45°



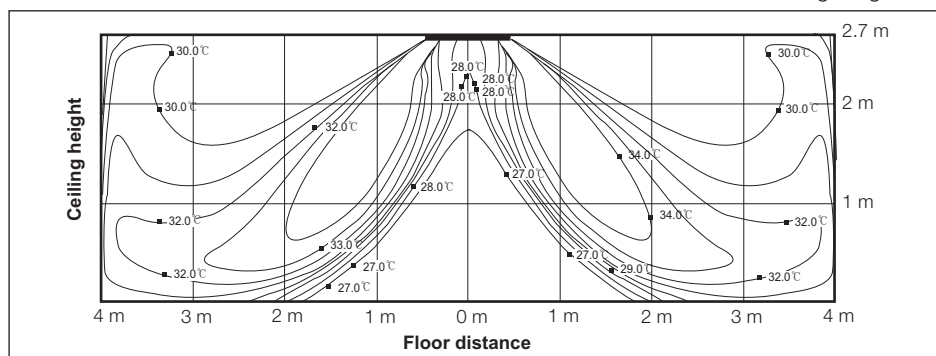
(3) Heating air velocity distribution

◆ Discharge angle : 52°



(4) Heating temperature distribution

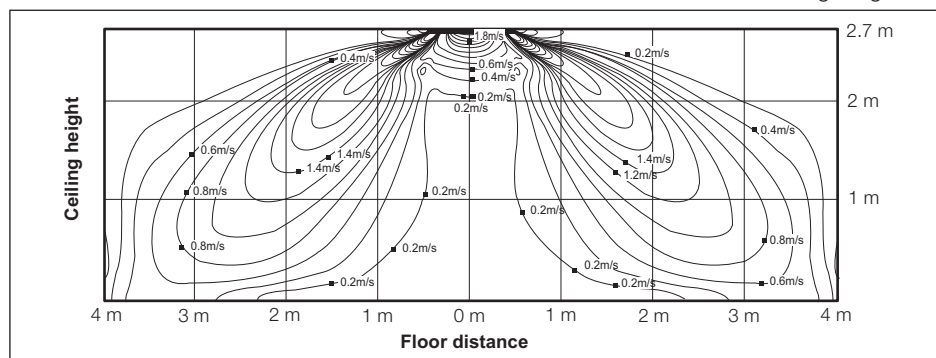
◆ Discharge angle : 52°



10) NS1404DXEA

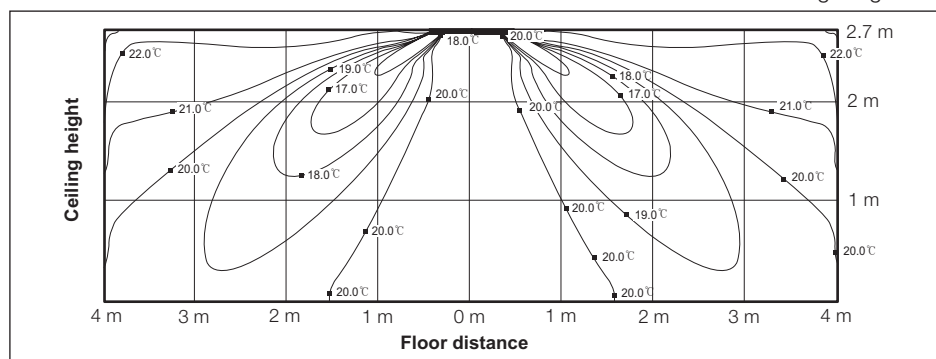
(1) Cooling air velocity distribution

◆ Discharge angle : 45°



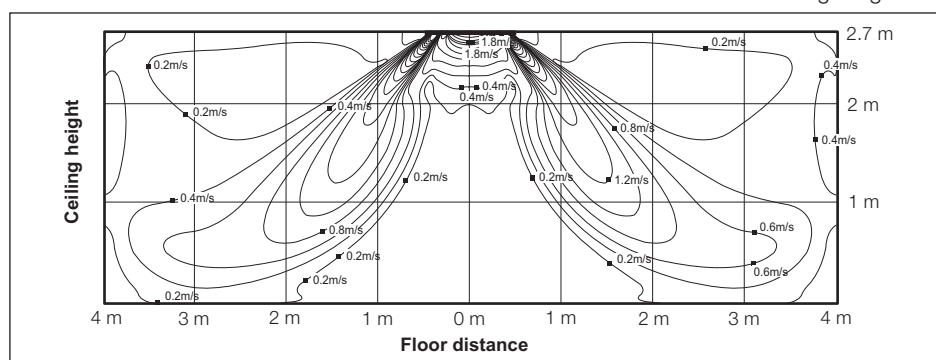
(2) Cooling temperature distribution

◆ Discharge angle : 45°



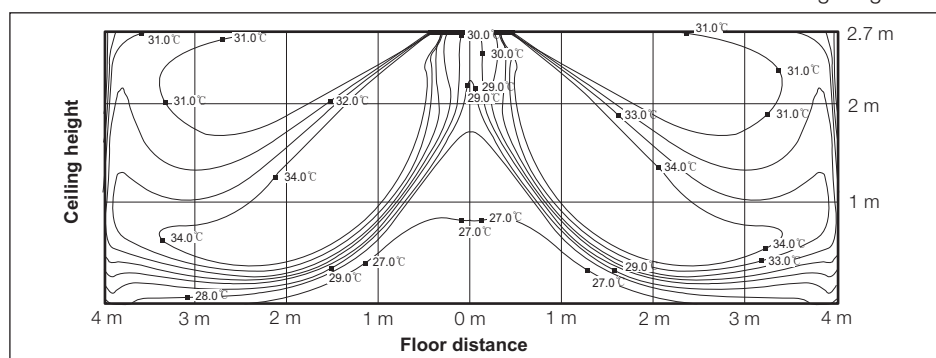
(3) Heating air velocity distribution

◆ Discharge angle : 52°



(4) Heating temperature distribution

◆ Discharge angle : 52°



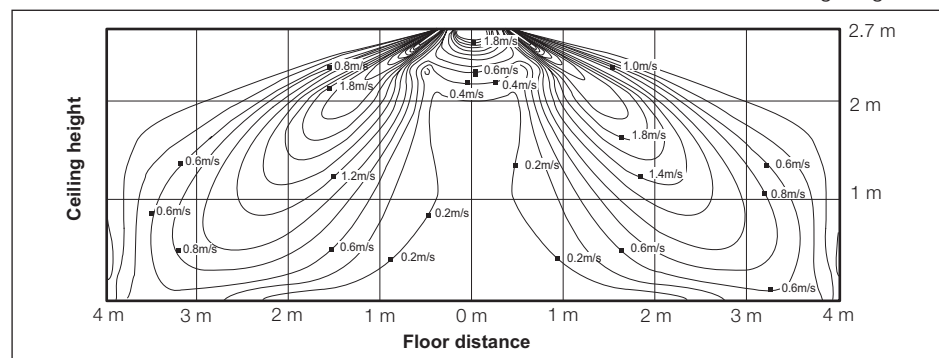
3 4 way cassette S

3-7. Temperature and air flow distribution

11) NS1404PXE A

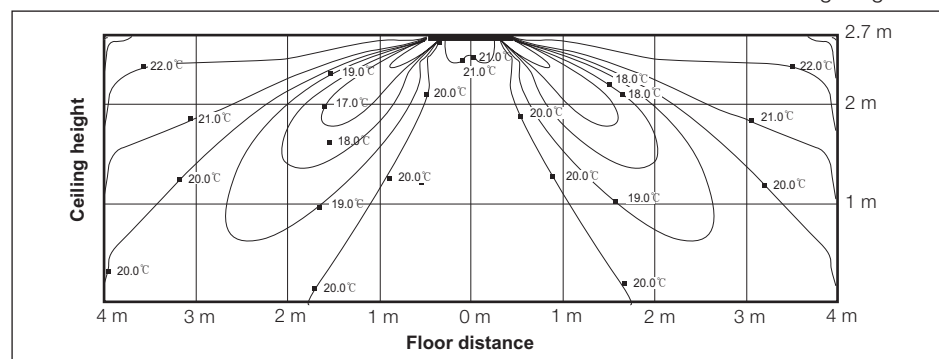
(1) Cooling air velocity distribution

◆ Discharge angle : 45°



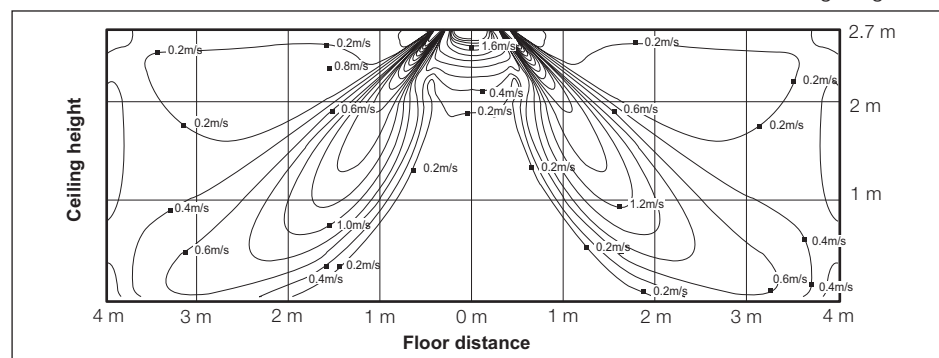
(2) Cooling temperature distribution

◆ Discharge angle : 45°



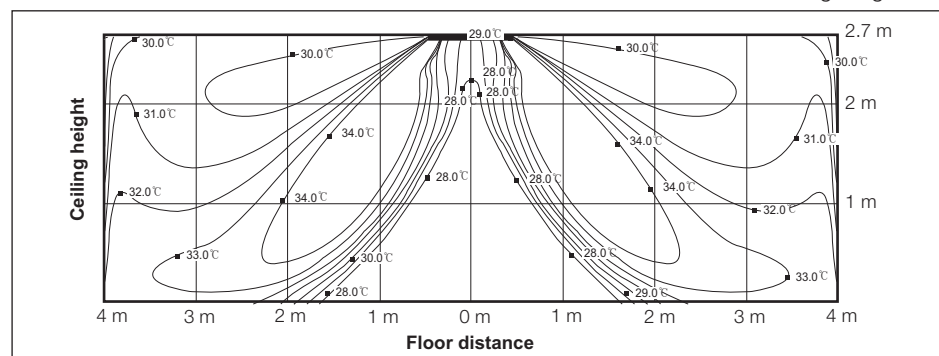
(3) Heating air velocity distribution

◆ Discharge angle : 52°



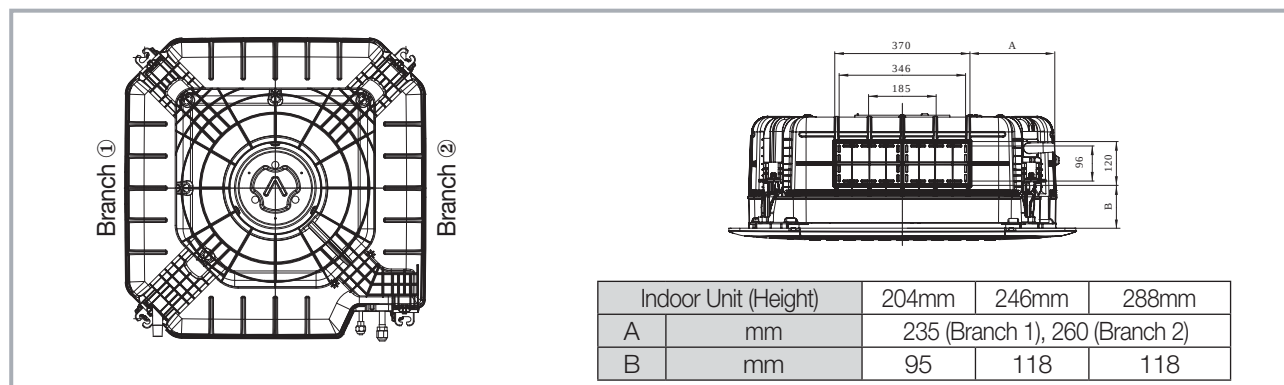
(4) Heating temperature distribution

◆ Discharge angle : 52°



3-8. Sub duct

1) Dimensional drawing



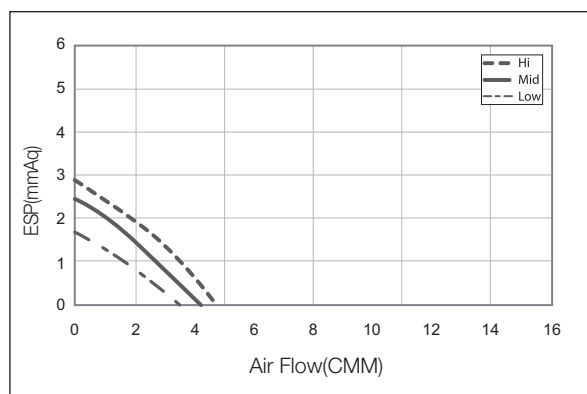
✓ Note

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

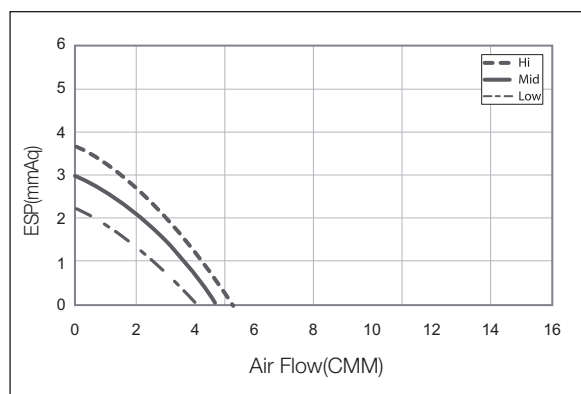
2) P-Q Curve

(1) AC052FB4DEH/EU, AC071FB4DEH/EU

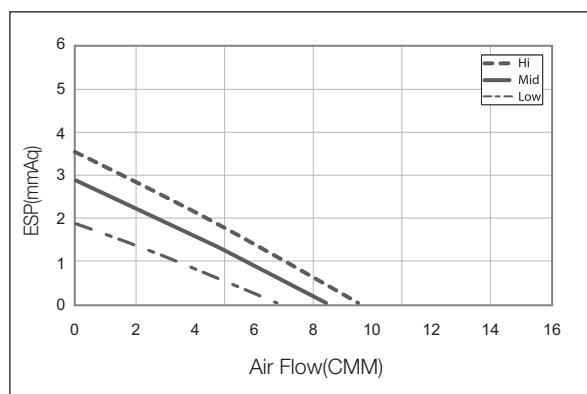
Branch ①



Branch ②



Branch ① + ②



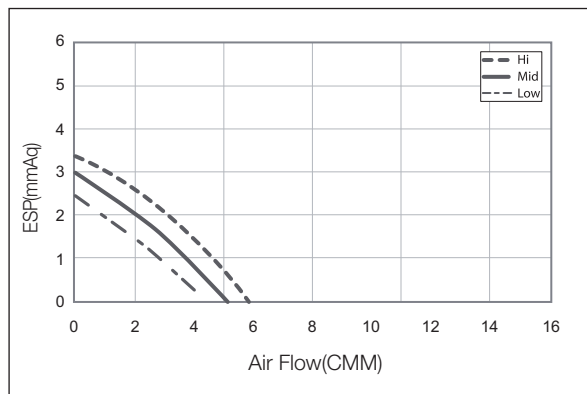
3 4 way cassette S

3-8. Sub duct

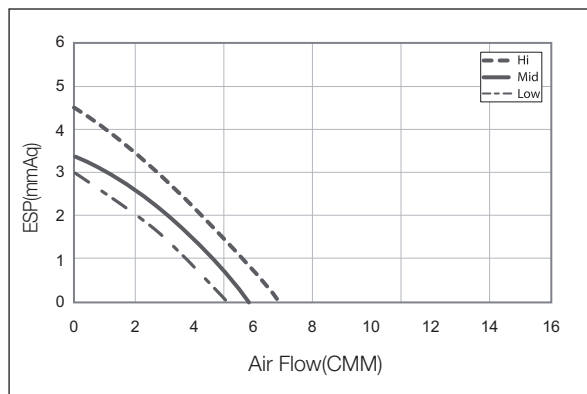
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(2) AC071FB4PEH/EU

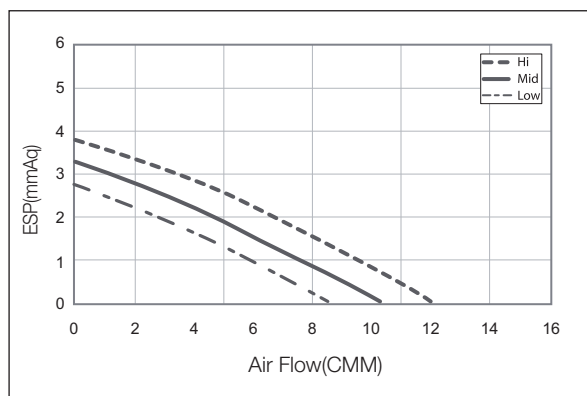
Branch ①



Branch ②

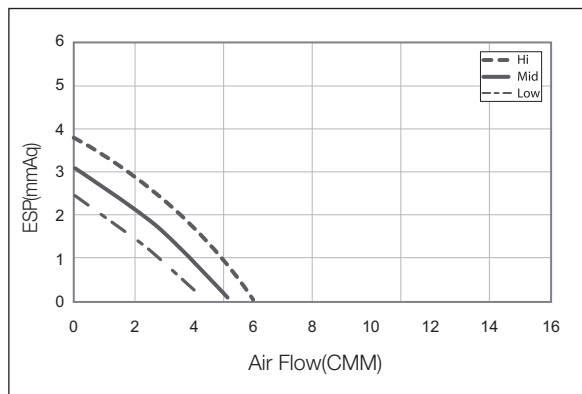


Branch ① + ②

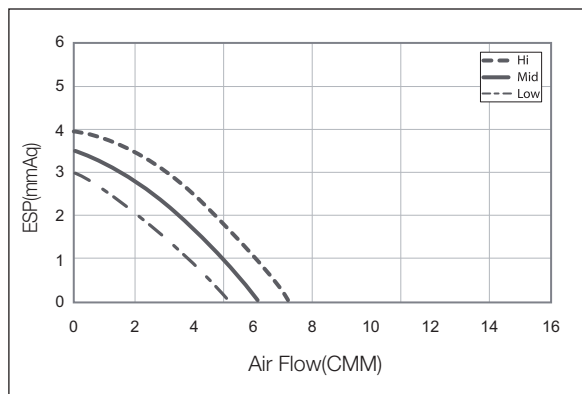


(3) AC090FB4DEH/EU

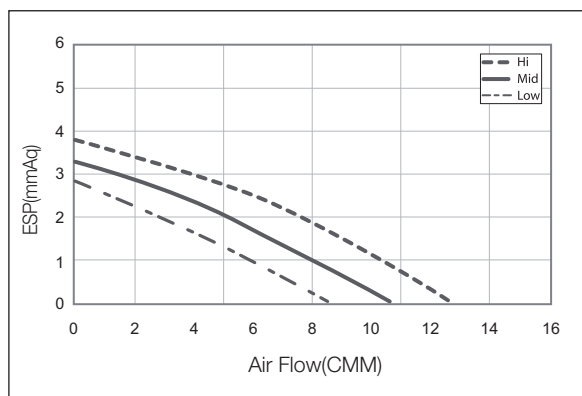
Branch ①



Branch ②

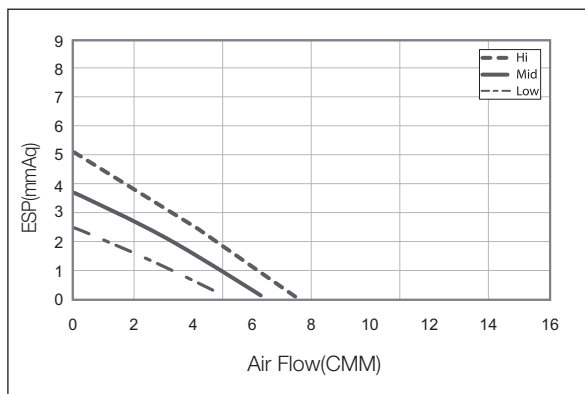


Branch ① + ②

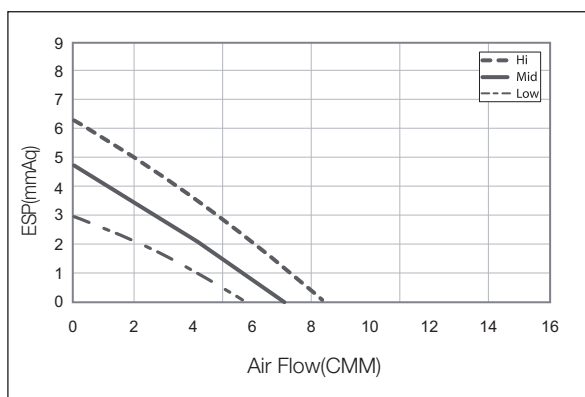


(4) AC090FB4PEH/EU

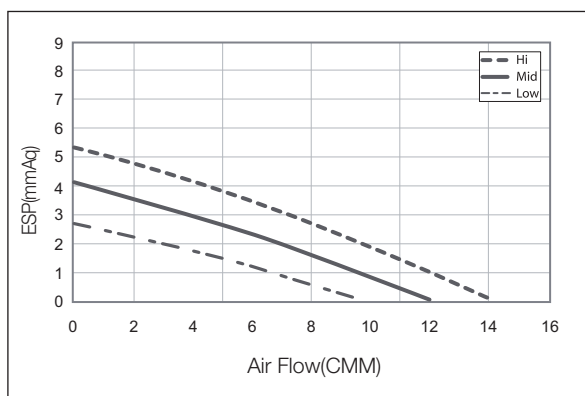
Branch ①



Branch ②

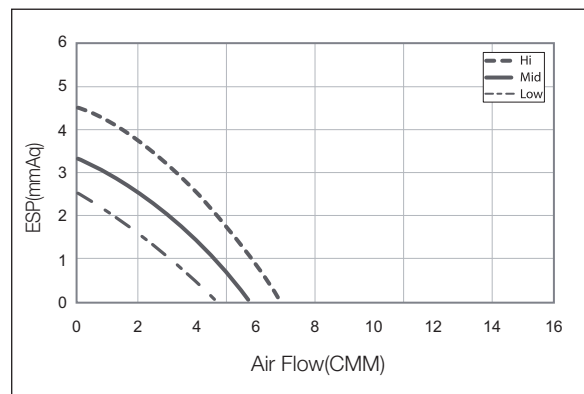


Branch ① + ②

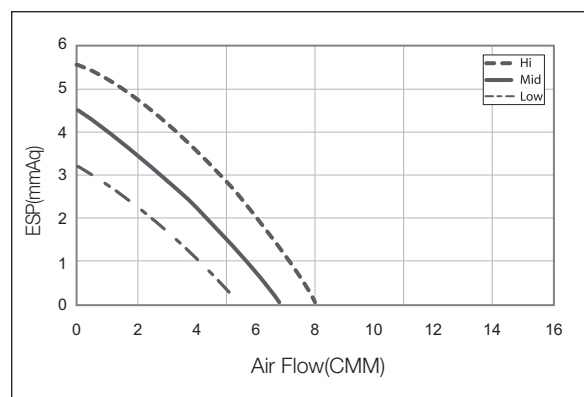


(5) AC100FB4DEH/EU

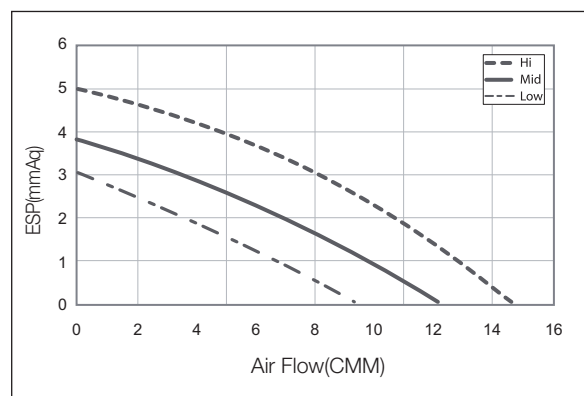
Branch ①



Branch ②



Branch ① + ②



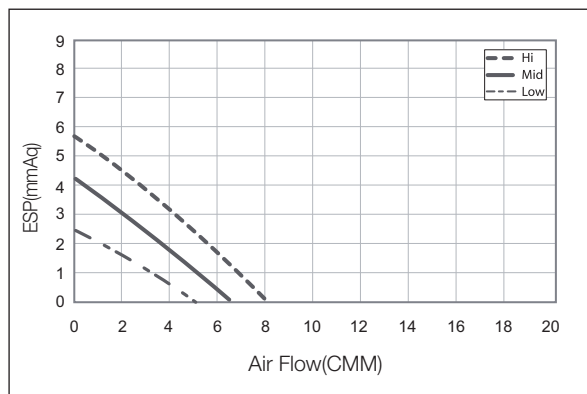
3 4 way cassette S

3-8. Sub duct

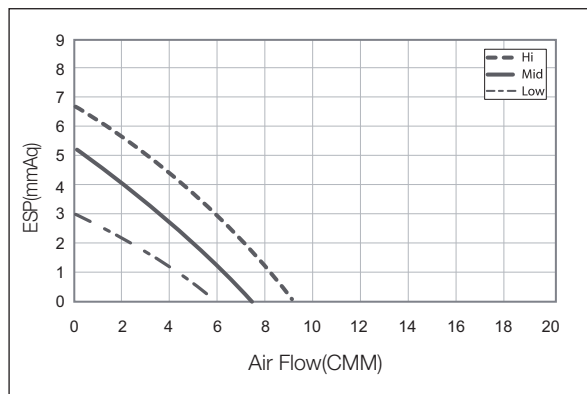
2) P-Q Curve

(6) AC100FB4PEH/EU

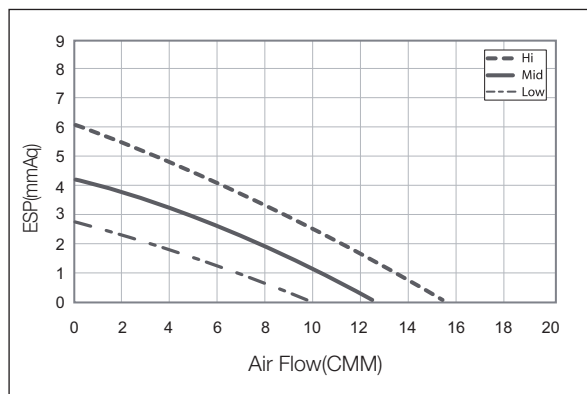
Branch ①



Branch ②

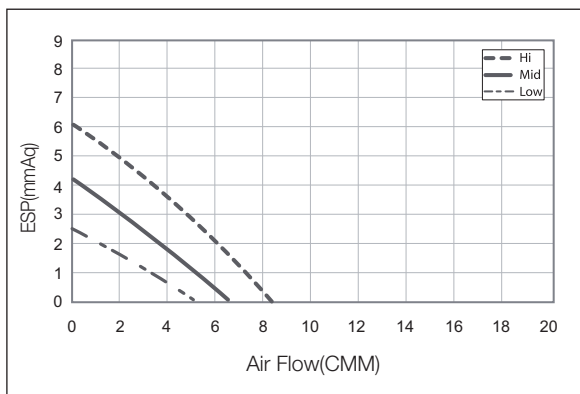


Branch ① + ②

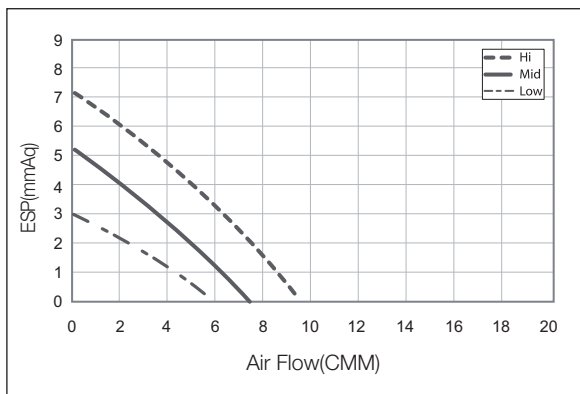


(7) AC100FB4FEH/EU

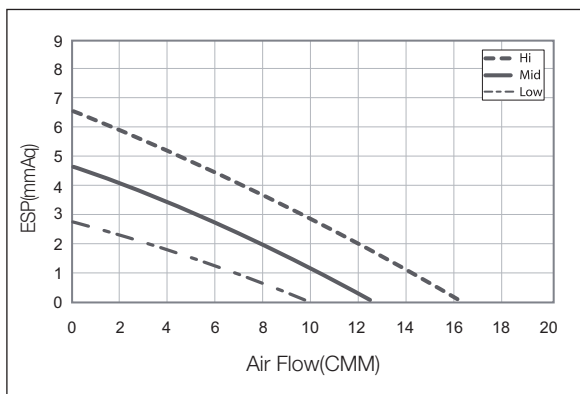
Branch ①



Branch ②

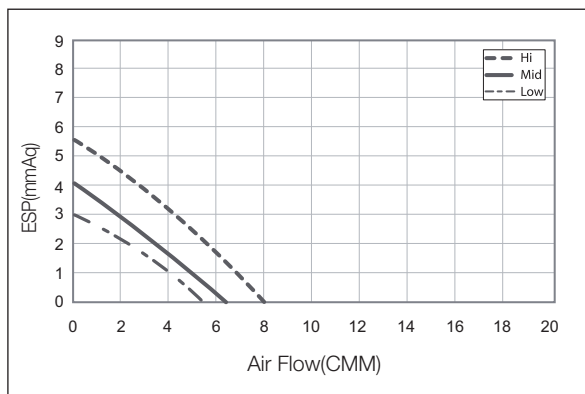


Branch ① + ②

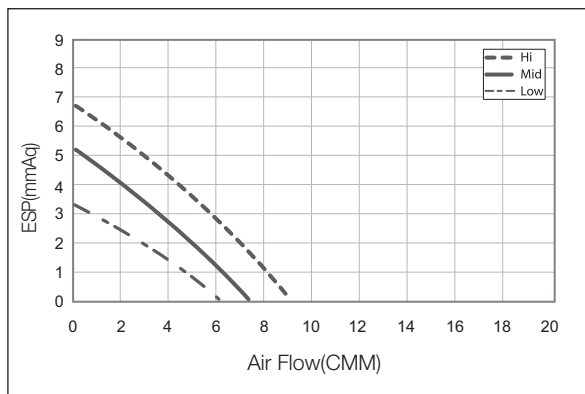


(8) NS1254D(P)XEA

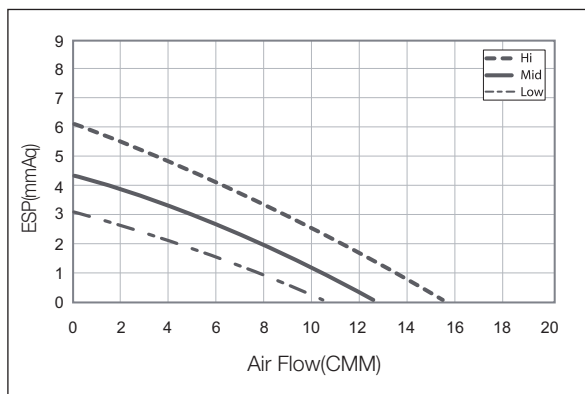
Branch ①



Branch ②

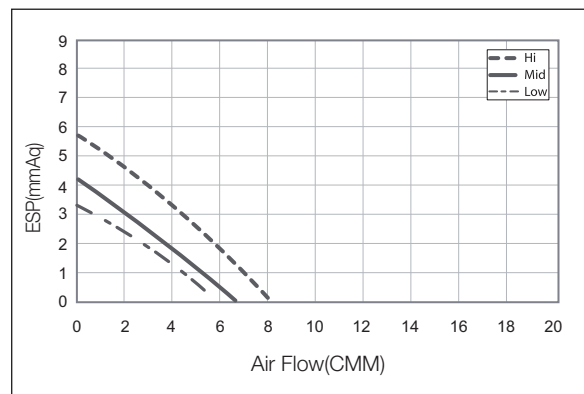


Branch ① + ②

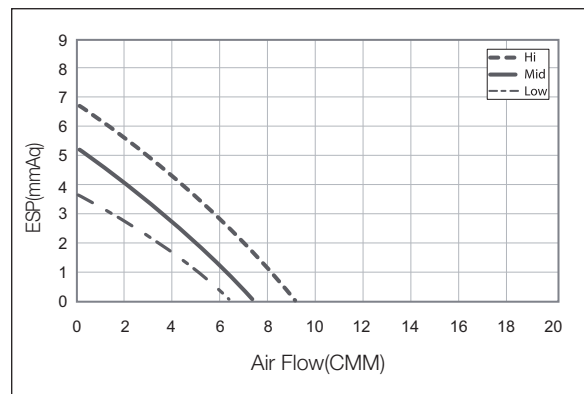


(9) NS1404DXEA

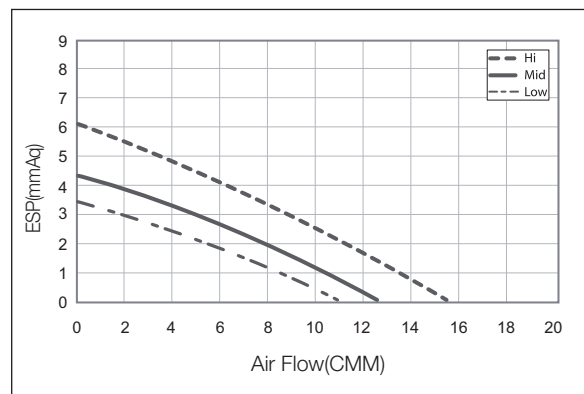
Branch ①



Branch ②



Branch ① + ②



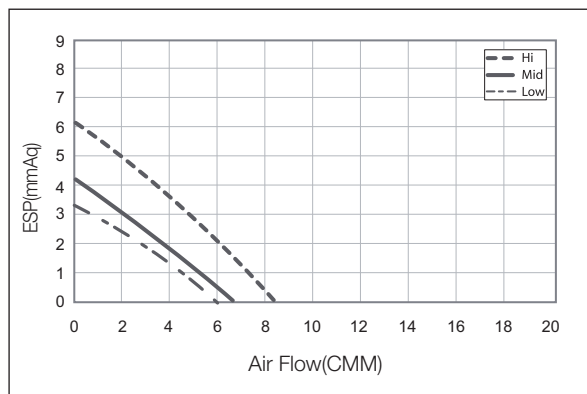
3 4 way cassette S

3-8. Sub duct

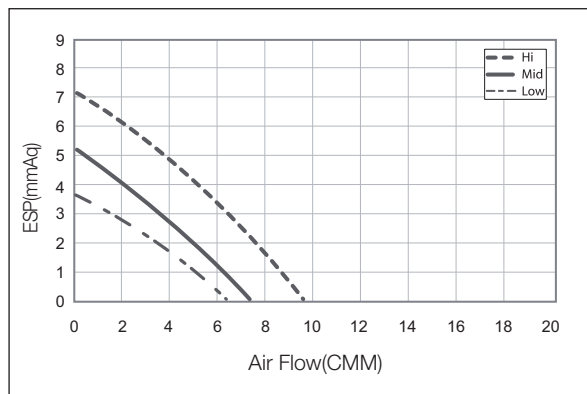
2) P-Q Curve

(10) NS1404PXE A

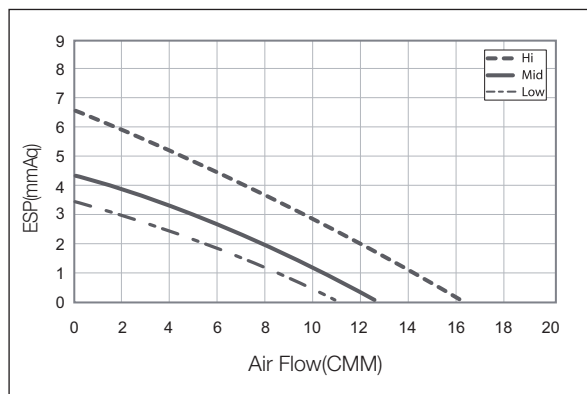
Branch ①



Branch ②



Branch ① + ②





4 Maldives

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4-1. Specifications

1) Technical specifications

Model Name		Indoor Unit		AC026FBRDEH/EU	AC035FBRDEH/EU	AC052FBRDEH/EU	AC071FBRDEH/EU
		Outdoor Unit		AC026FCADDEH/EU	AC035FCADDEH/EU	AC052FCADDEH/EU	AC071FCADDEH/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)	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
				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)	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
				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)
	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)	20(25)	20(25)	30(35)	50(55)
			Max. Height (Between ID/OD)	15(15)	15(15)	20(20)	30(30)
Indoor Unit	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	–	–	–	–	–
	Power Supply	Factory Charging	kg / tCO ₂ e	0.95 / 1.98	0.95 / 1.98	1.40 / 2.92	1.80 / 3.76
		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
		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
		External Static Pressure	Min / Std / Max	mmAq	175.00 / 158.33 / 133.33	133.33 / 116.67 / 100.00	250.00/220.00/191.67
	Drain	Drain Pipe	Ø, mm	–	–	–	–
			Pa	–	–	–	–
	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
		Sound Power	–	dB(A)	53	55	60
	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 (WxHxD)	mm	–	–	–	–
		Shipping Dimensions (WxHxD)	mm	–	–	–	–
	Additional Accessories	Drain pump	–	–	–	–	–
		Max. Lifting Height / Displacement	mm/liter/h	–	–	–	–
Outdoor Unit	Power Supply	Type	–	–	–	–	–
			–	–	–	–	–
	Compressor	Model	–	Single BLDC Rotary	Single BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary
		Output	kW	0.86	0.86	1.37	1.79
		Oil	–	POE	POE	POE	POE
	Fan	Air Flow Rate	Initial Charge	cc	320.00	320.00	650.00
			CMM	29.00	30.00	33.00	52.00
		Cooling	I/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
		Sound Power	–	dB(A)	60	62	64
	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	–15~46	–15~50
		Heating	°C	–15~24	–15~24	–15~24	–20~24

- All figures comply with EN14511

- Specifications may be subject to change without prior notice.

- These products contain R410A(GWP=2,088) which is fluorinated greenhouse gas.

4-2. 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.

4-2. Capacity tables

3) AC052FCADDEH/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) AC071FCADDEH/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

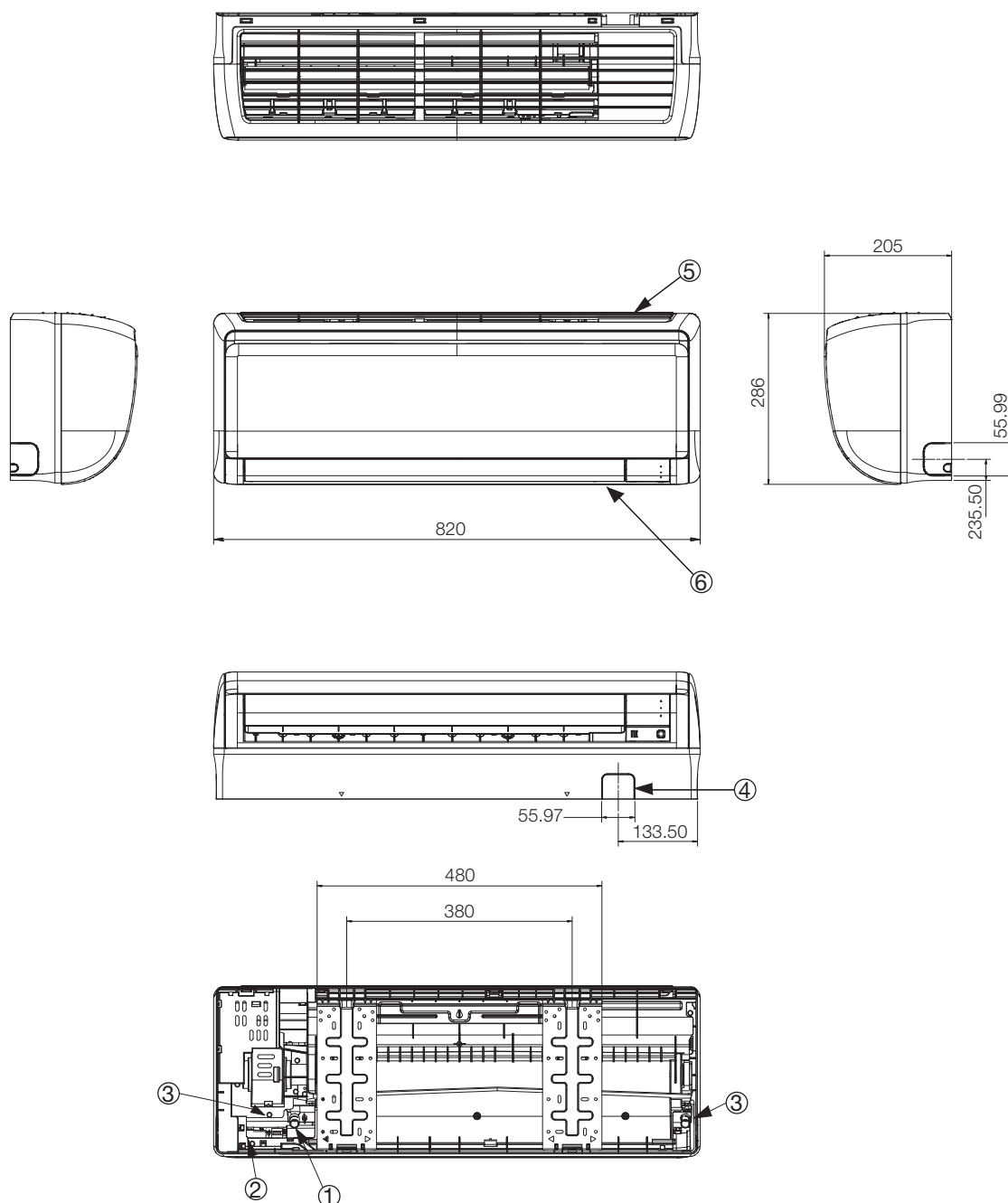


- ◆ Ratings shown are net capacities.
- ◆ Capacities are based on following conditions;
 - Equivalent refrigerant piping length : 5m / Level difference : 0m.

4-3. Dimensional drawing

1) AC026/035FBRDEH/EU

Unit:mm



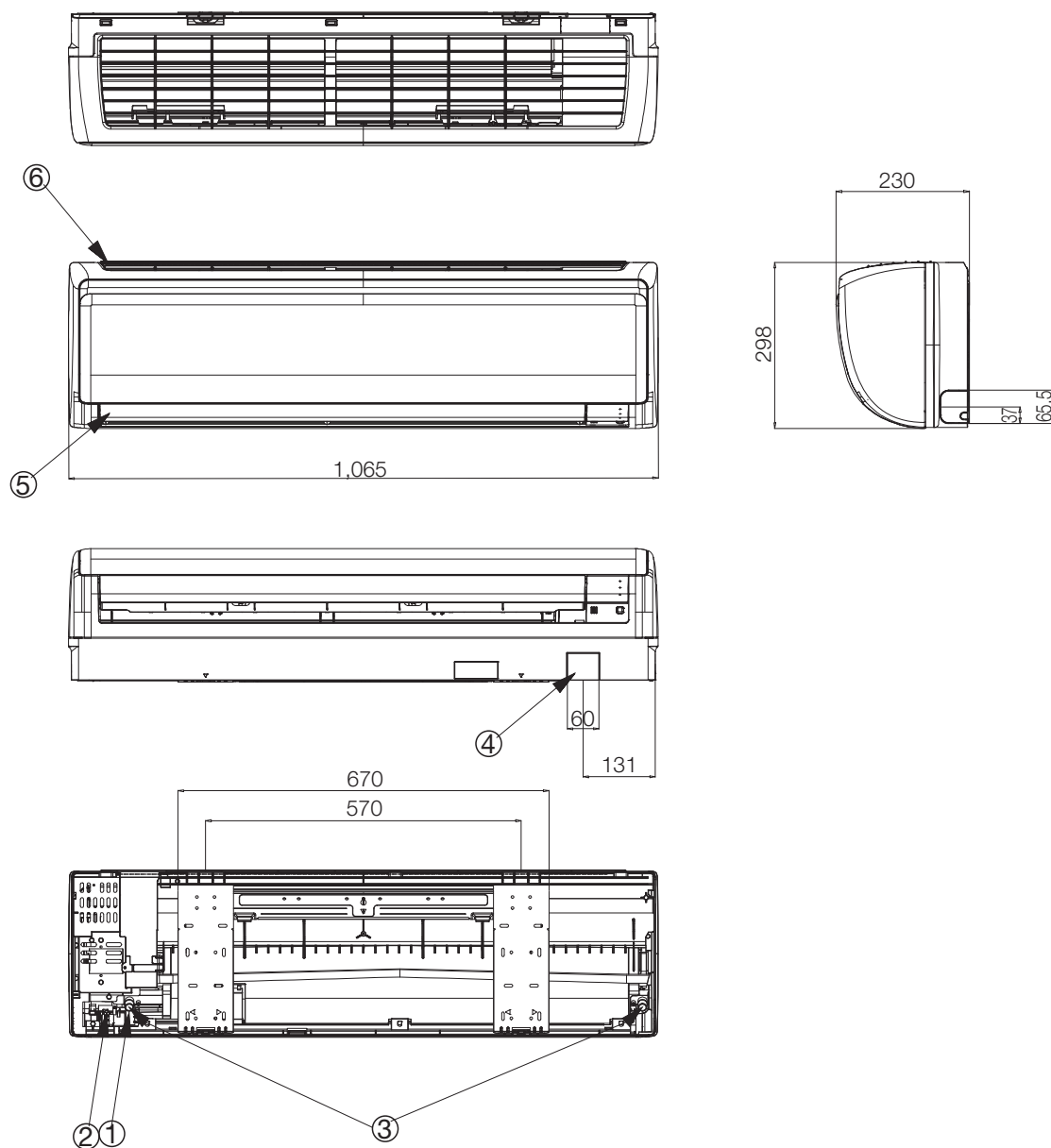
No.	Name	Description	
		2.6kW	3.5kW
①	Liquid pipe connection	Ø6.35mm Flare	
②	Gas pipe connection	Ø9.52mm Flare	
③	Drain pipe connection	ID18 Hose	
④	Conduit for power supply & communication wiring	-	
⑤	Air inlet grille	-	
⑥	Air outlet louver	-	

4 Maldives

4-3. Dimensional drawing

2) AC052/071FBRDEH/EU

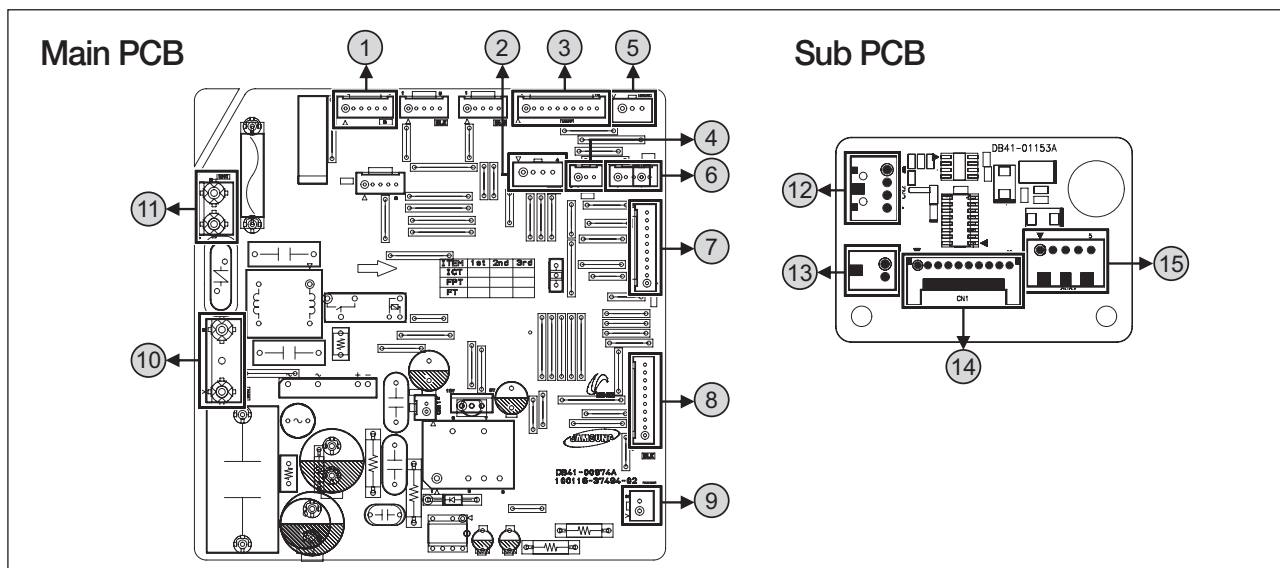
Unit:mm



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	-	

4-4. PCB connector lay-out

1) AC026/035FBRDEH/EU(AC MOTOR)



Main PCB

No.	CN #	Color	Function
①	CN61	White	Lower 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

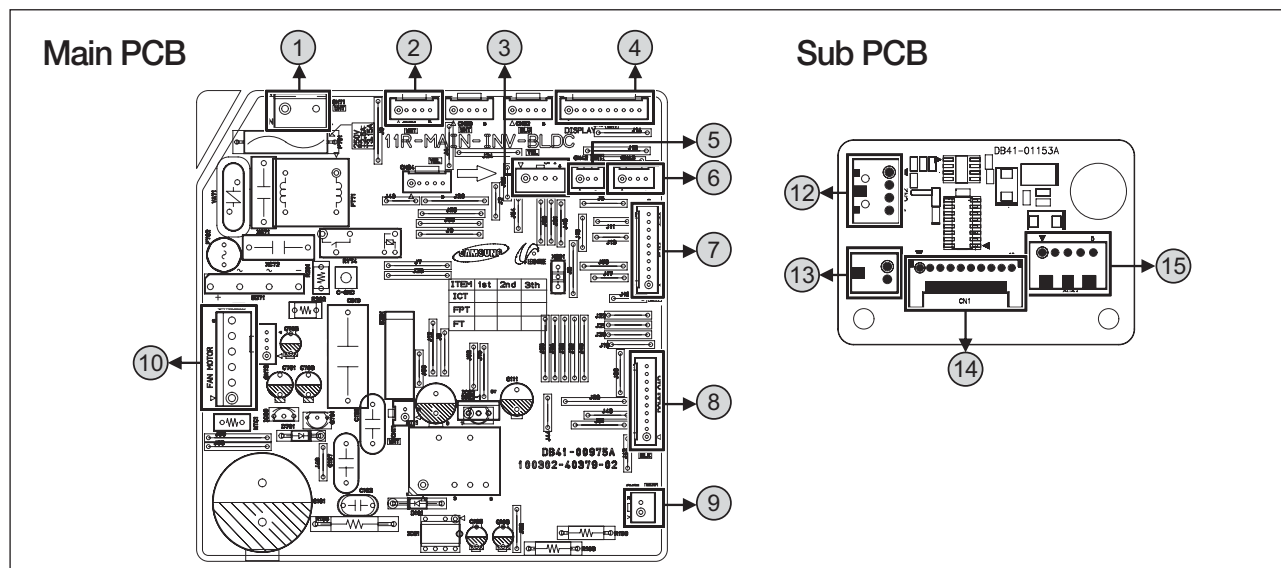
Sub PCB

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)

4 Maldives

4-4. PCB connector lay-out

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



Main PCB

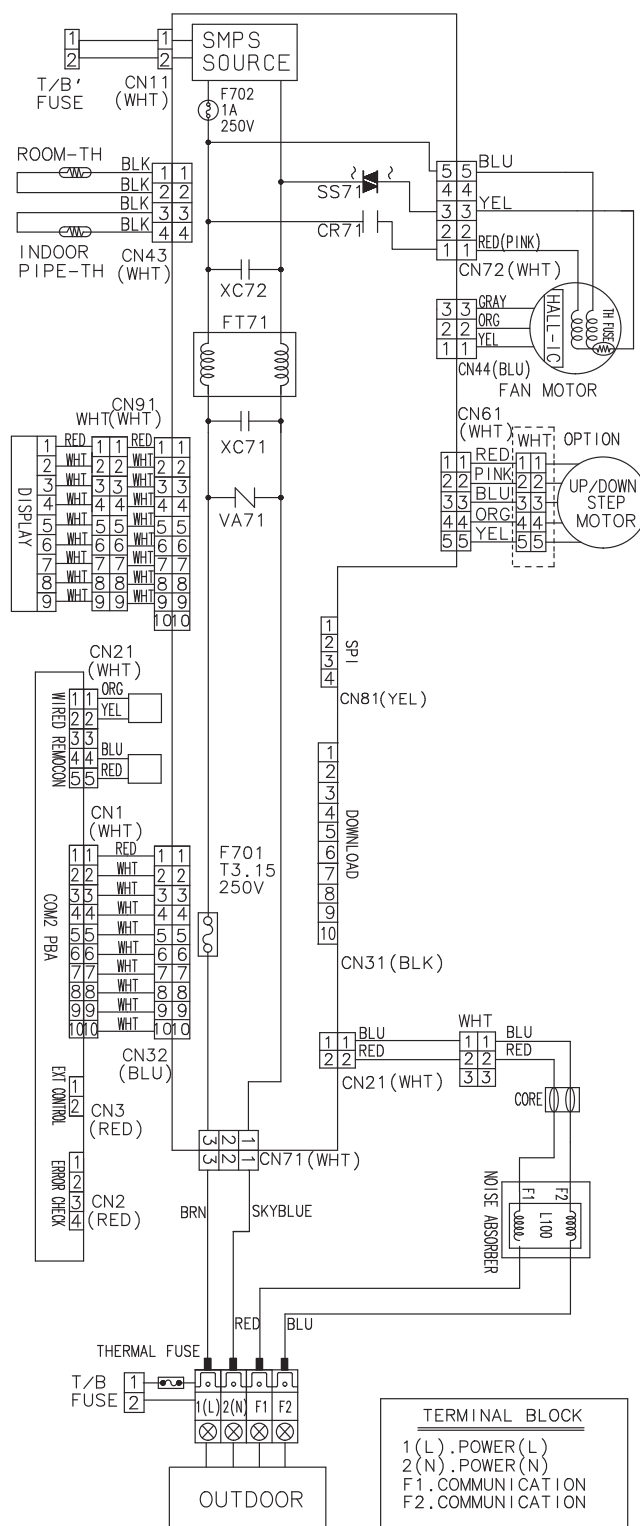
No.	CN #	Color	Function
①	CN71	White	AC POWER Input
②	CN61	White	Louver stepping Motor
③	CN81	Yellow	SPI
④	CN91	White	DISPLAY
⑤	CN42	White	HUMIDITY SENSOR
⑥	CN43	White	Thermistor(Room,EVA)
⑦	CN32	Blue	MAIN-SUB PCB Connector
⑧	CN31	Black	MICOM Download
⑨	CN21	White	Communication with Outdoor Unit(COM1)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

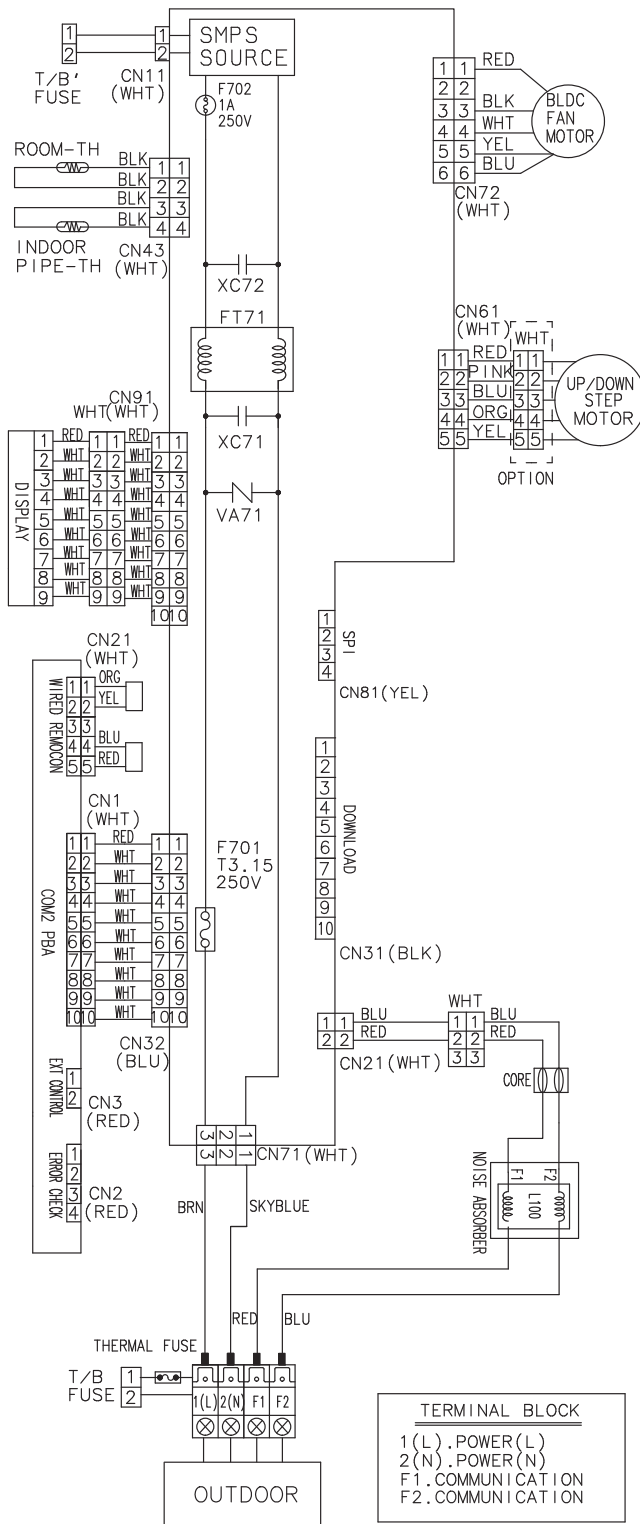
4-5. Electrical wiring diagram

1) AC026/035FBRDEH/EU



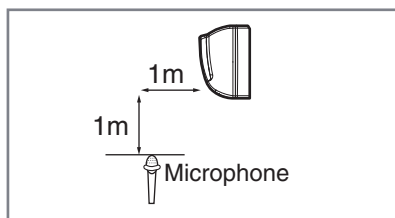
4-5. Electrical wiring diagram

2) AC052/071FBRDEH/EU



4-6. Sound pressure level

1) Operation sound level



Unit : dB(A)

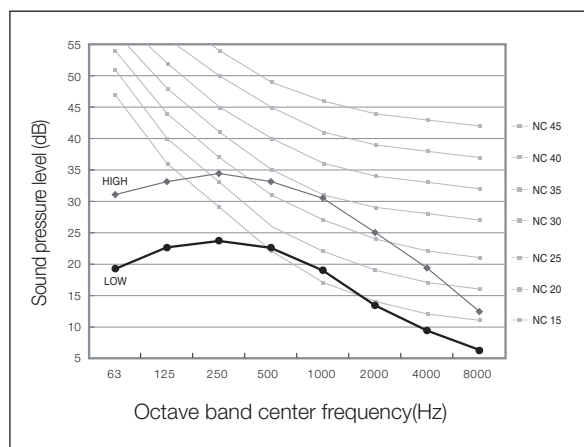
Model	High	Low
AC026FBRDEH/EU	35	24
AC035FBRDEH/EU	37	25
AC052FBRDEH/EU	40	30
AC071FBRDEH/EU	44	31

☑ Note

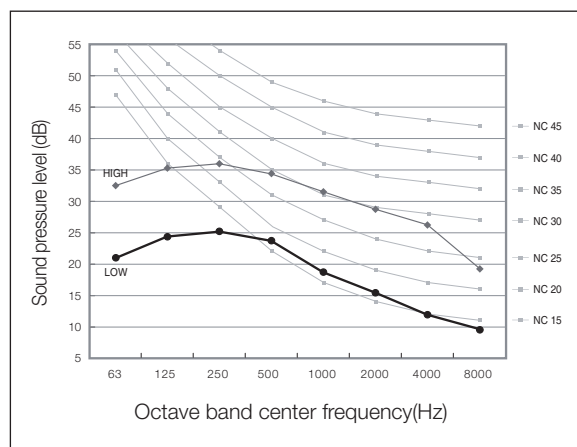
- ◆ These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- ◆ Operation sound level may differ depending on operation and ambient conditions.

2) NC curves

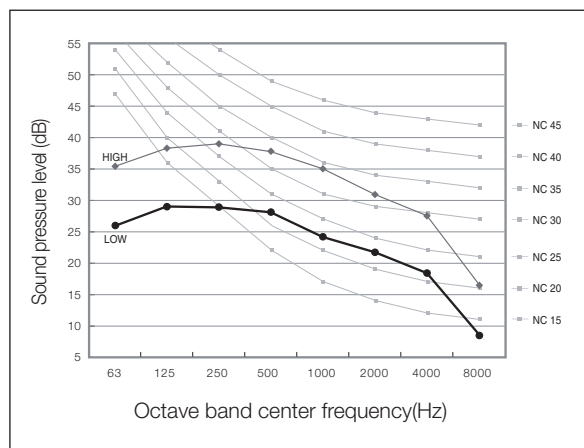
(1) AC026FBRDEH/EU



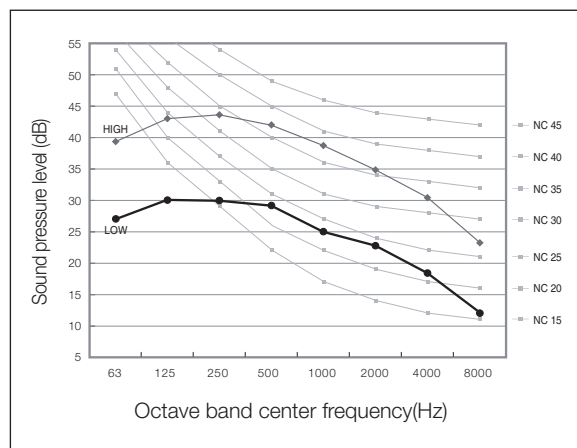
(2) AC035FBRDEH/EU



(3) AC052FBRDEH/EU



(4) AC071FBRDEH/EU

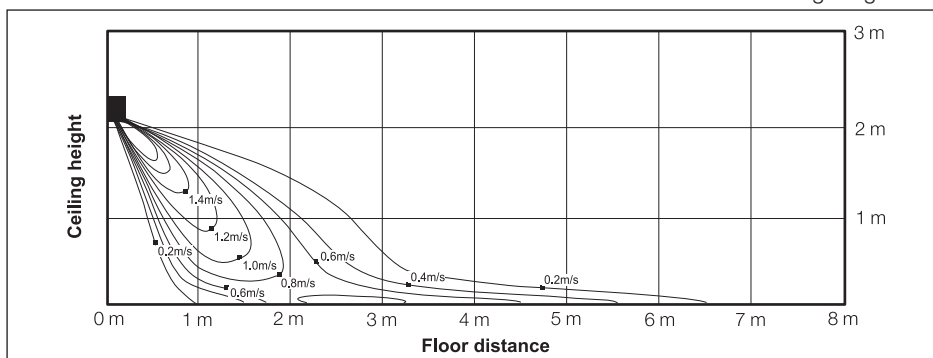


4-7. Temperature and air flow distribution

1) AC035FBRDEH/EU

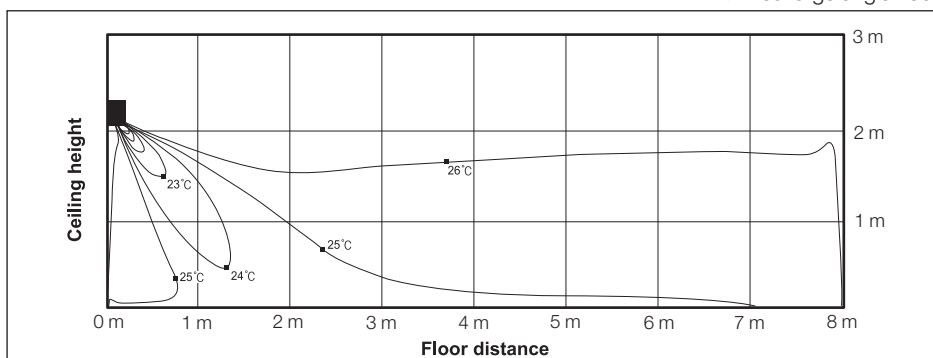
(1) Cooling air velocity distribution

◆ Discharge angle : 60°



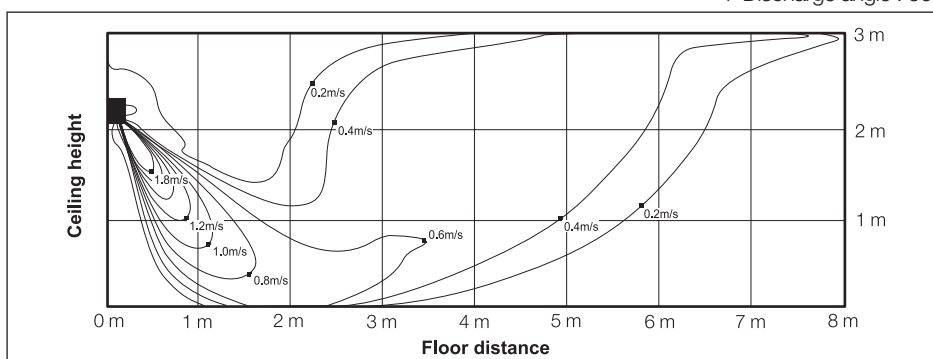
(2) Cooling temperature distribution

◆ Discharge angle : 60°



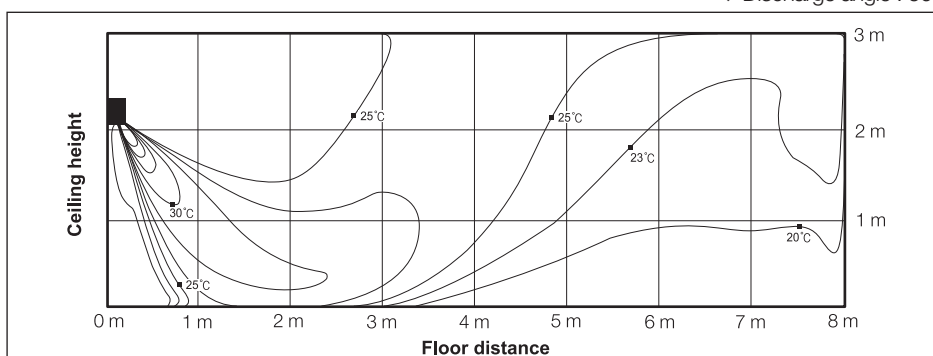
(3) Heating air velocity distribution

◆ Discharge angle : 60°



(4) Heating temperature distribution

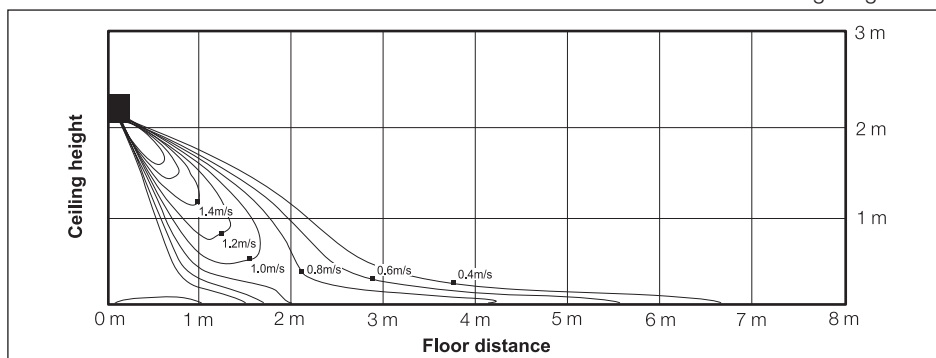
◆ Discharge angle : 60°



2) AC071FBRDEH/EU

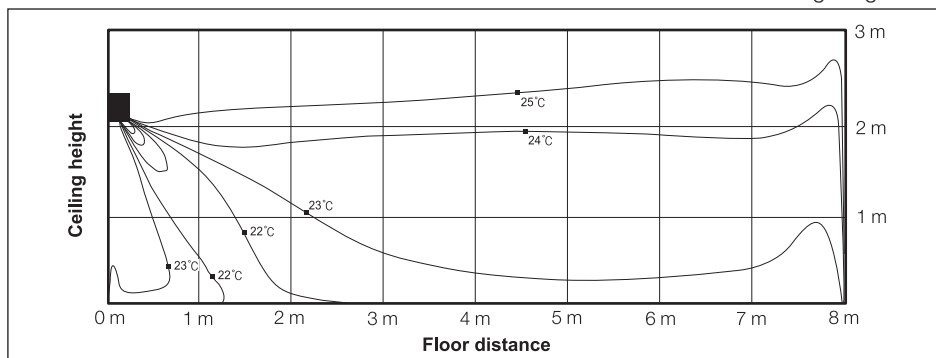
(1) Cooling air velocity distribution

◆ Discharge angle : 60°



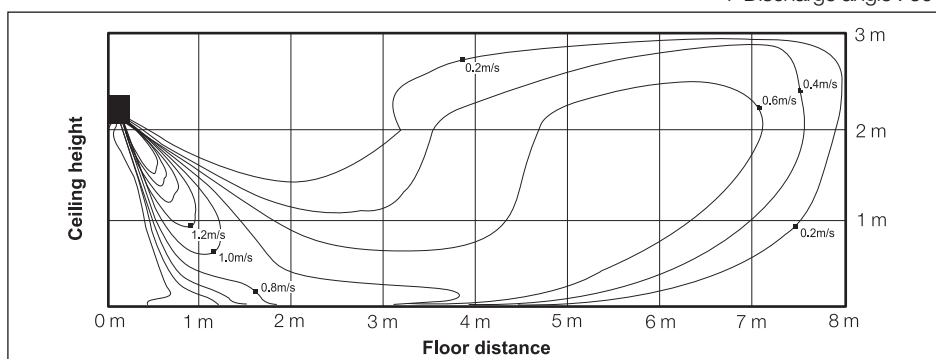
(2) Cooling temperature distribution

◆ Discharge angle : 60°



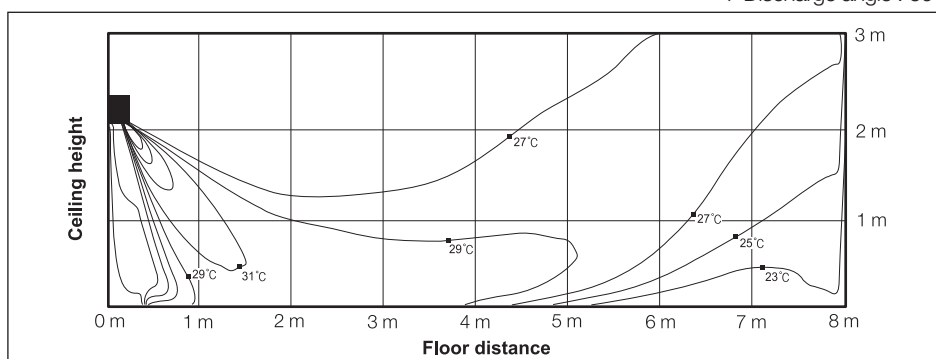
(3) Heating air velocity distribution

◆ Discharge angle : 60°



(4) Heating temperature distribution

◆ Discharge angle : 60°





Specifications



5 Console

5-1. Specifications	98
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5-1. Specifications

1) Technical specifications

Model Name			Indoor Unit		AC026FBJDEH/EU		AC035FBJDEH/EU					
			Outdoor Unit		AC026FCADH/EU		AC035FCADH/EU					
System	Mode				HEAT PUMP		HEAT PUMP					
	Capacity	Cooling (Min / Std / Max)		kW		0.98/2.60/3.40		1.20/3.50/3.90				
				Btu/h		3,300/8,900/11,600		4,100/11,900/13,300				
		Heating (Min / Std / Max)		kW		0.95/3.50/4.20		1.04/4.00/4.40				
	Btu/h			3,200/11,900/14,300		3,500/13,600/15,000						
	Power	Power Input (Nominal)	Cooling (Min / Std / Max)	kW	0.23/0.81/1.20		0.25/1.29/1.50					
			Heating (Min / Std / Max)		0.21/1.06/1.30		0.21/1.33/1.40					
		Current Input (Nominal)	Cooling (Min / Std / Max)	A	1.60/4.00/5.50		1.60/6.00/7.00					
			Heating (Min / Std / Max)		1.30/5.00/6.50		1.30/6.20/7.20					
		MCA		A		10.30 (MCA)		10.30 (MCA)				
		MFA		A		12.50		12.50				
	Energy Efficiency	EER (Nominal Cooling)		-		3.21		2.71				
		COP (Nominal Heating)		-		3.30		3.01				
		SEER (Cooling Energy Grade)		-		SEER 5.40 (A)		SEER 5.40 (A)				
		SCOP (Heating Energy Grade)		-		SCOP 4.00 (A+)		SCOP 3.90 (A)				
		Pdesignh		kW		2.3		2.3				
	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 ~ 2.5		1.5 ~ 2.5					
	Transmission Cable		-		0.75 ~ 1.25		0.75 ~ 1.25					
Refrigerant	Type		-		R410A		R410A					
	Control Method		-									
	Factory Charging		kg / tCO2e		0.95 / 1.98		0.95 / 1.98					
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		8.50/7.50/6.50		9.80/8.50/7.50			
					l/s		141.67/125.00/108.33		163.33/141.67/125.00			
		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)		38.00/30.5/23.0		39.00/31.5/24.0		
		Sound Power				dB(A)		53		55		
	External Dimension	Net Weight		kg		15.20		15.20				
		Shipping Weight		kg		20.30		20.30				
		Net Dimensions (WxHxD)		mm		720 x 620 x 199		720 x 620 x 199				
		Shipping Dimensions (WxHxD)		mm		810 x 710 x 299		810 x 710 x 299				
	Panel Size	Panel model		-		-		-				
		Panel Net Weight		kg		-		-				
		Shipping Weight		kg		-		-				
		Net Dimensions (WxHxD)		mm		-		-				
		Shipping Dimensions (WxHxD)		mm		-		-				
	Additional Accessories	Drain pump	Drain pump		-		-		-			
			Max. Lifting Height / Displacement		mm/liter/h		-		-			
		Air Filter		-		-		-				
	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)		61		61		
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				

- All figures comply with EN14511
- Specifications may be subject to change without prior notice.
- These products contain R410A(GWP=2,088) which is fluorinated greenhouse gas.

5-2. 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

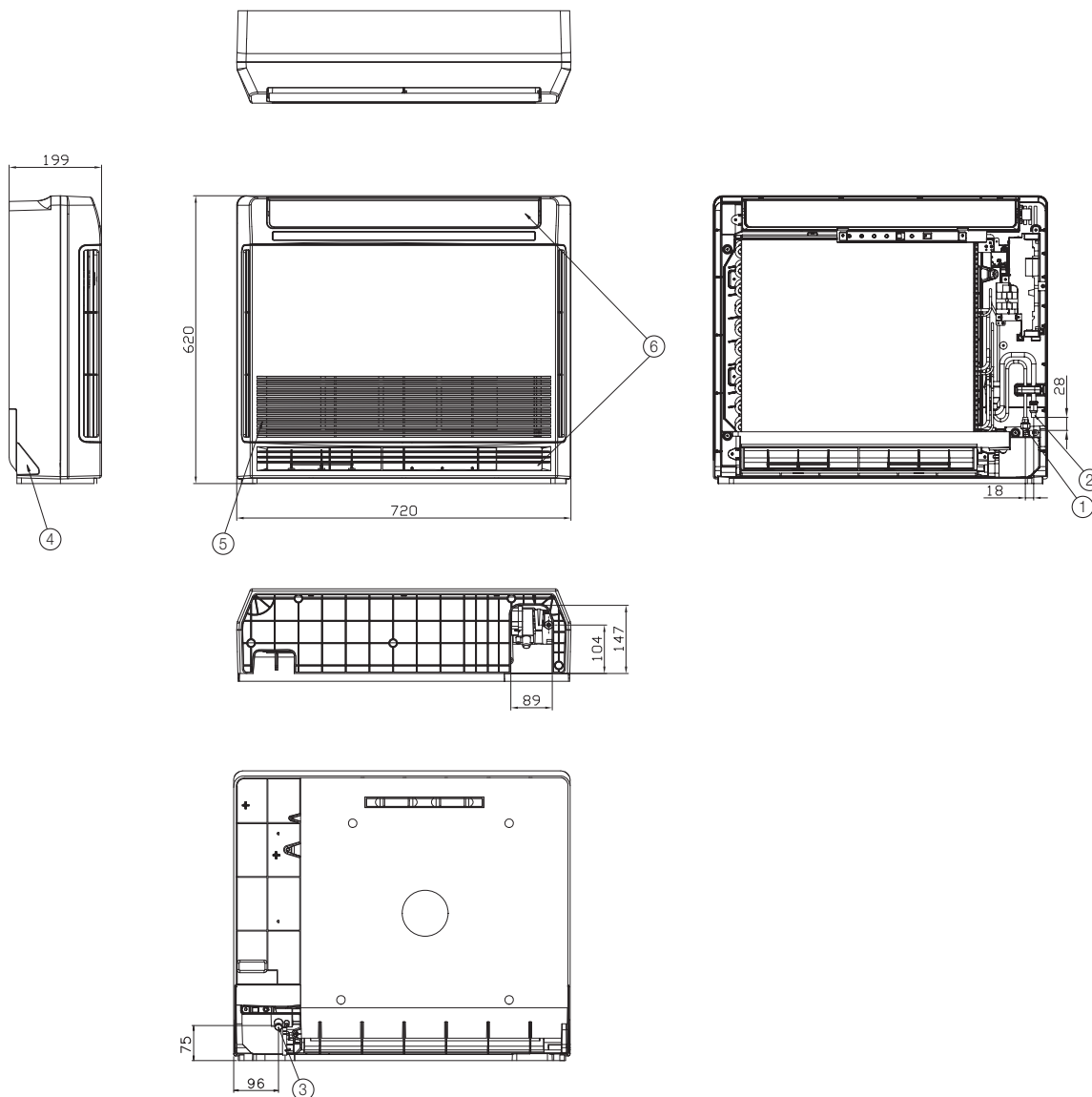
- ◆ Ratings shown are net capacities.
- ◆ Capacities are based on following conditions;
 - Equivalent refrigerant piping length : 5m / Level difference : 0m.

5 Console

5-3. Dimensional drawing

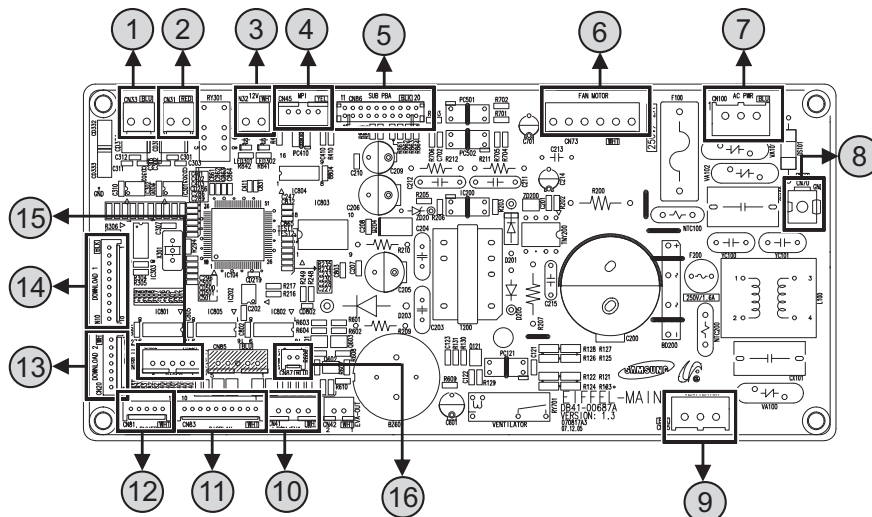
1) AC026/035FBJDEH/EU

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	-	

5-4. PCB connector lay-out

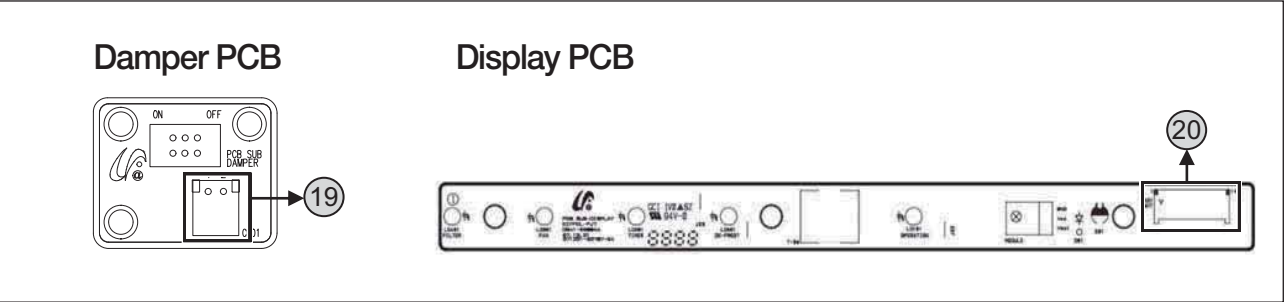


No.	CN #	Color	Function
①	CN33	Blue	Communication with Wired Remote Controller (COM2)
②	CN31	Red	Communication with Outdoor Units (COM1)
③	CN32	White	DC12V for Wired Remote Controller
④	CN45	Yellow	SPi
⑤	CN84	Yellow	EXT-CTRL
⑥	CN73	White	Fan Motor
⑦	CN100	Blue	AC 230V Input
⑧	CN70	White	Earth
⑨	CN75	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

5

Console

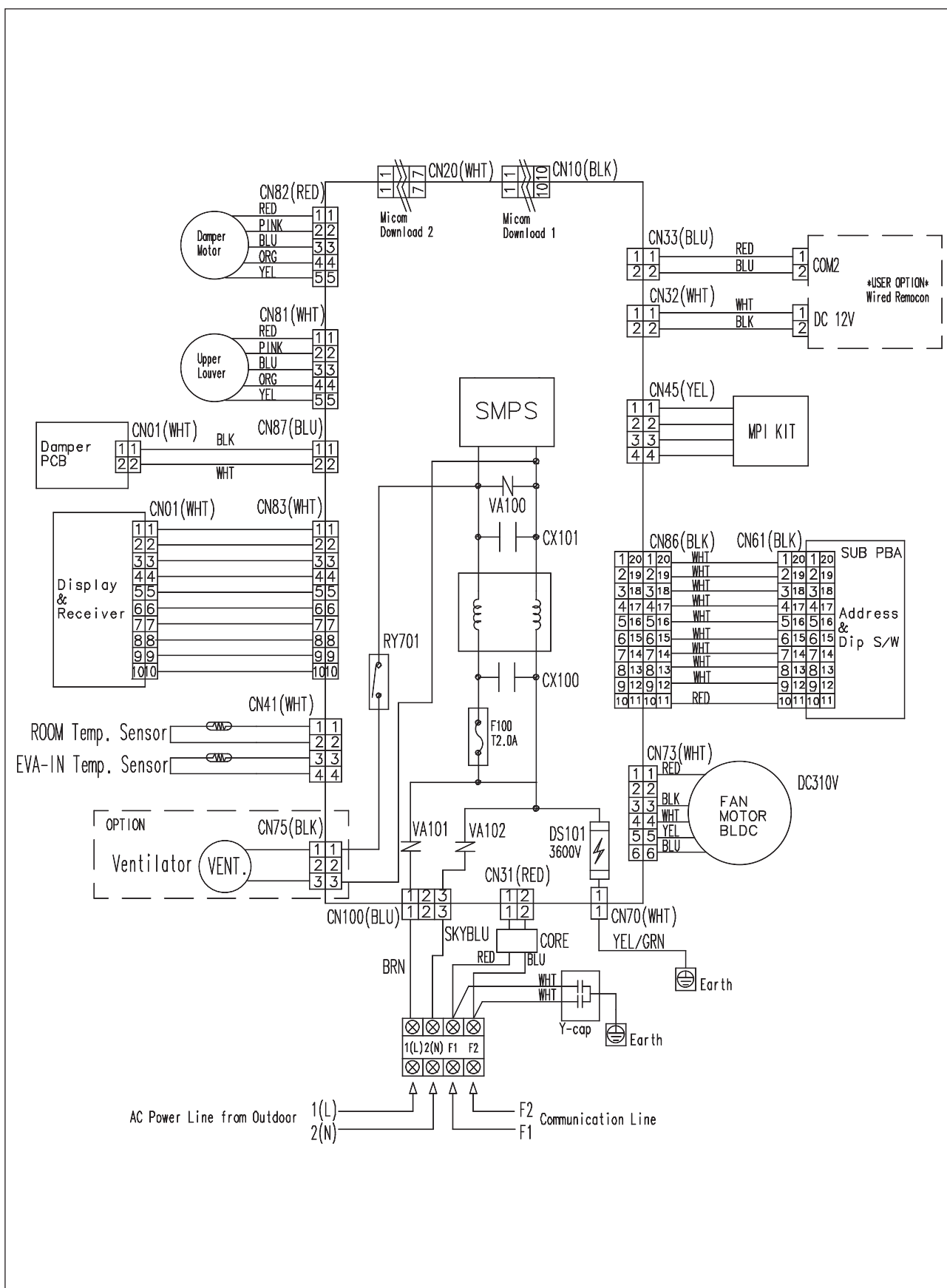
5-4. PCB connector lay-out



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

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

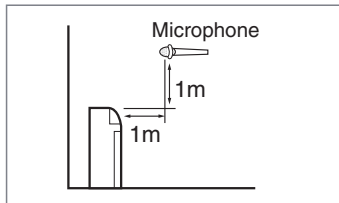
5-5. Electrical wiring diagram



5 Console

5-6. Sound pressure level

1) Operation sound level



Unit : dB(A)

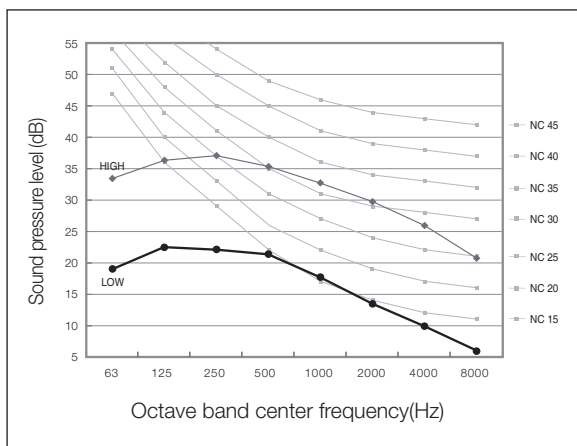
Model	High	Low
AC026FBJDEH/EU	38	23
AC035FBJDEH/EU	39	24

☒ Note

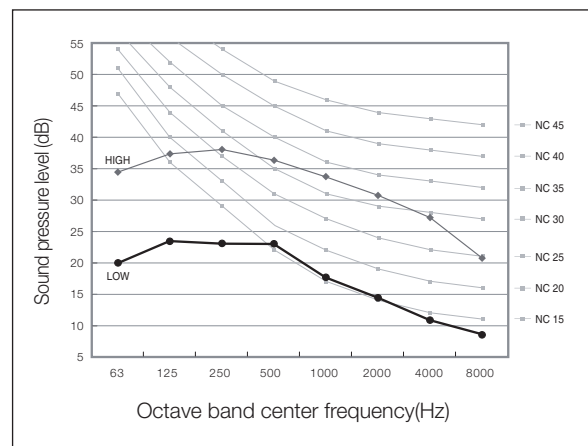
- ◆ These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- ◆ Operation sound level may differ depending on operation and ambient conditions.

2) NC curves

(1) AC026FBJDEH/EU



(2) AC035FBJDEH/EU

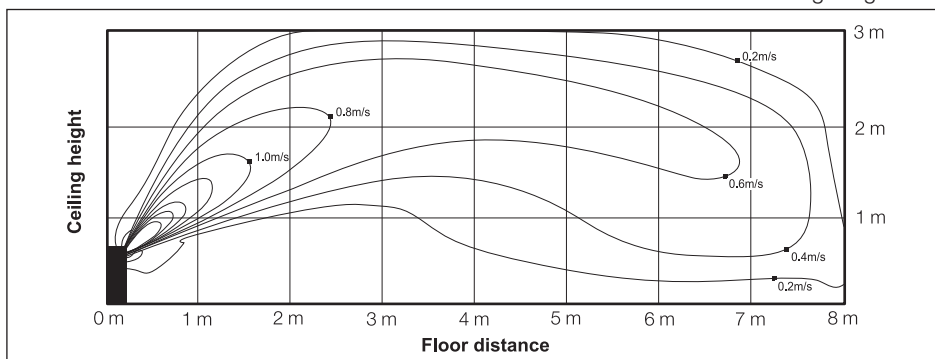


5-7. Temperature and air flow distribution

1) AC035FBJDEH/EU

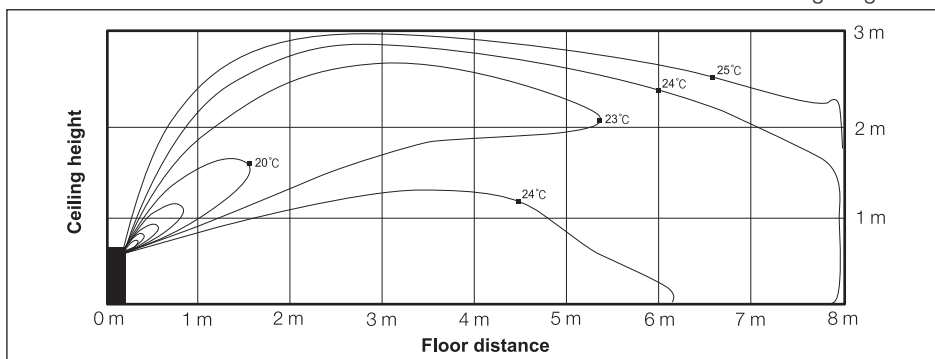
(1) Cooling air velocity distribution

◆ Discharge angle : 36°



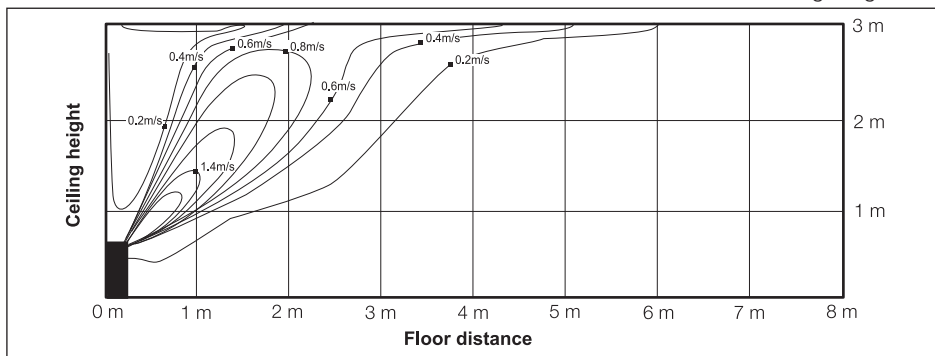
(2) Cooling temperature distribution

◆ Discharge angle : 36°



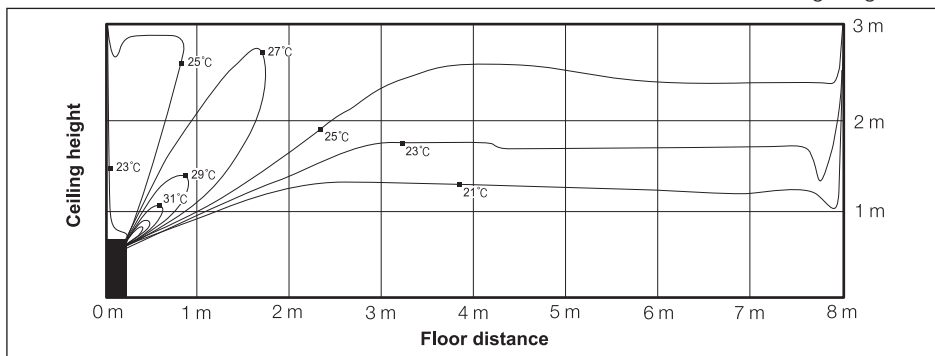
(3) Heating air velocity distribution

◆ Discharge angle : 54°



(4) Heating temperature distribution

◆ Discharge angle : 54°





Specifications

6 Outdoor units

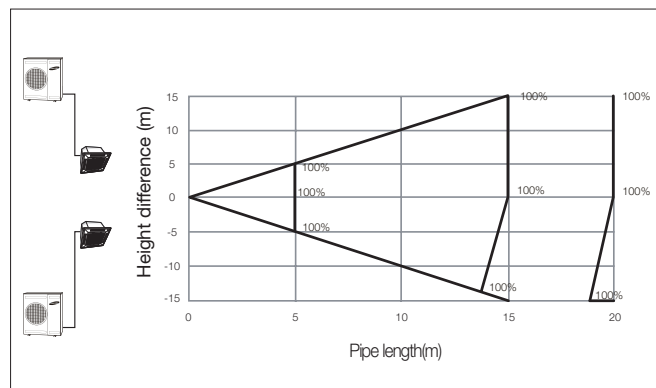
6-1. Capacity correction	108
6-2. Electrical wiring diagram	115
6-3. Sound pressure level	119
6-4. Cycle diagram	124
6-5. Dimensional drawing	125

6 Outdoor units

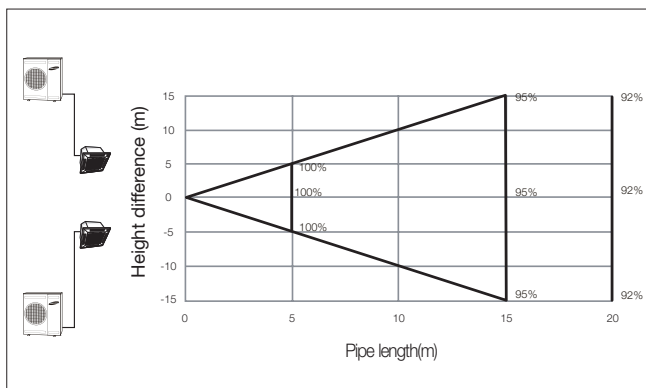
6-1. Capacity correction

1) AC026FCADEH/EU

(1) Cooling

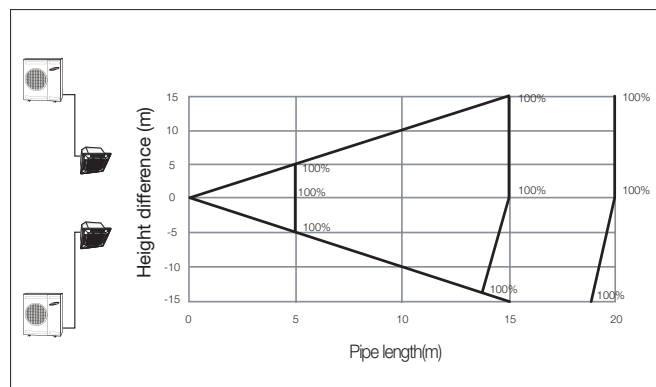


(2) Heating

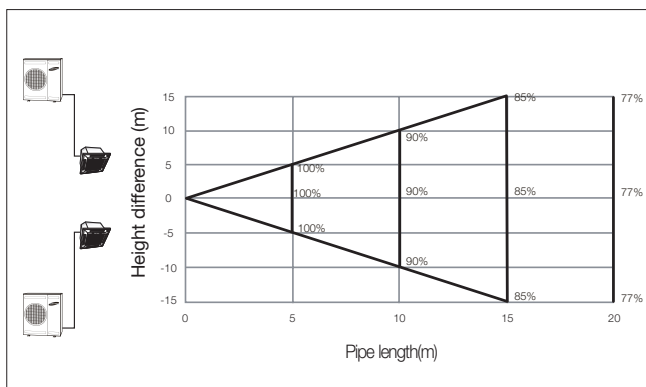


2) AC035FCADEH/EU

(1) Cooling

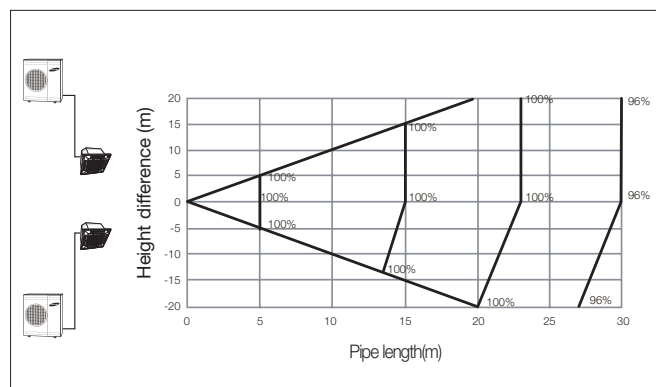


(2) Heating

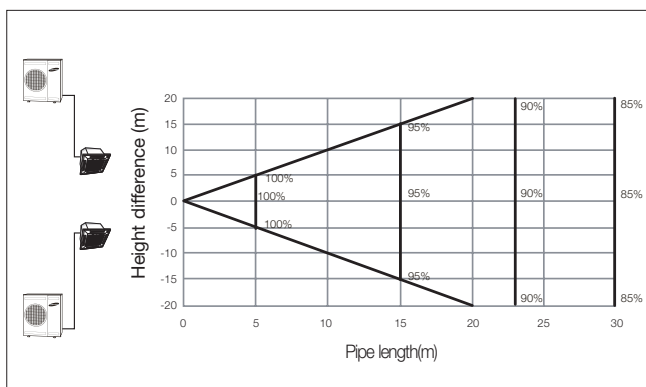


3) AC052FCADEH/EU

(1) Cooling

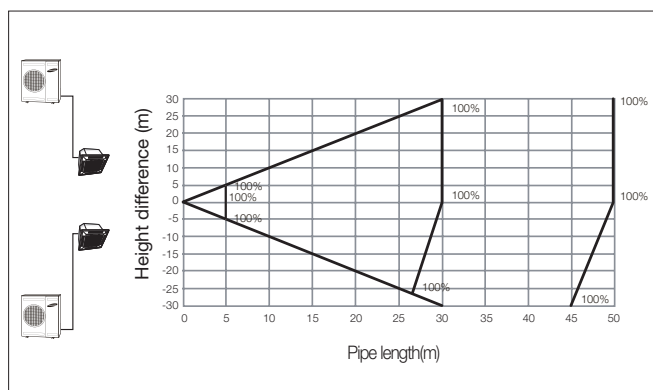


(2) Heating

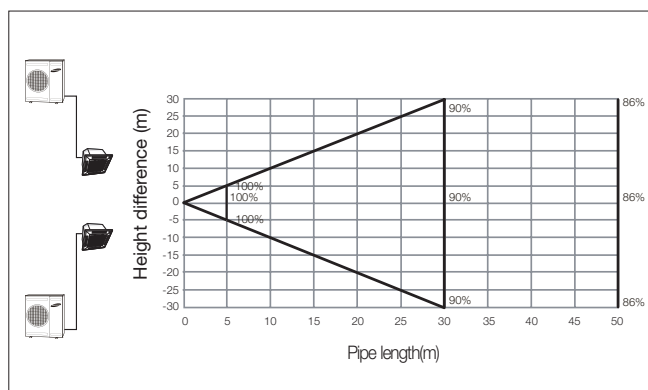


4) AC060FCADEH/EU

(1) Cooling

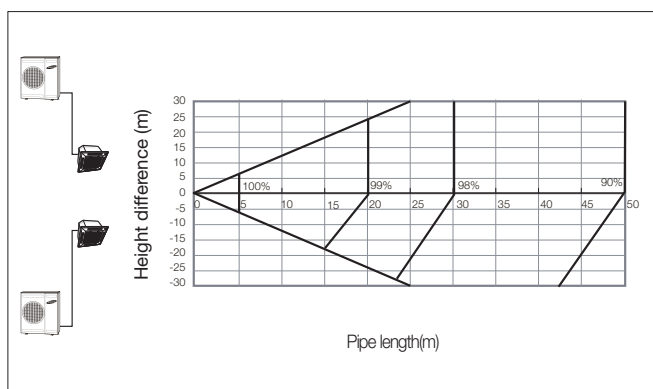


(2) Heating

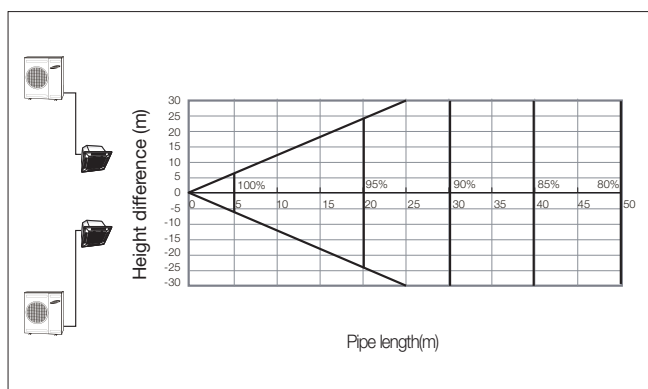


5) AC071FCADEH/EU

(1) Cooling

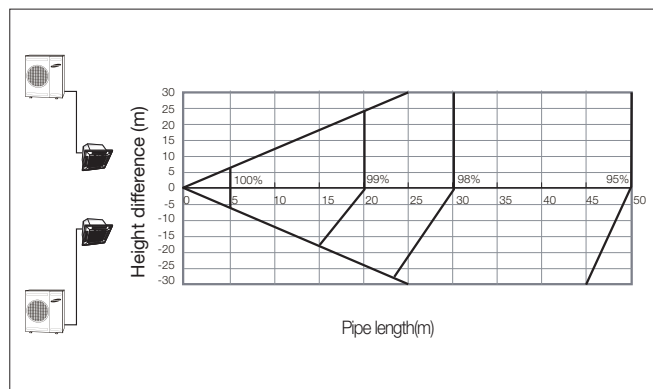


(2) Heating

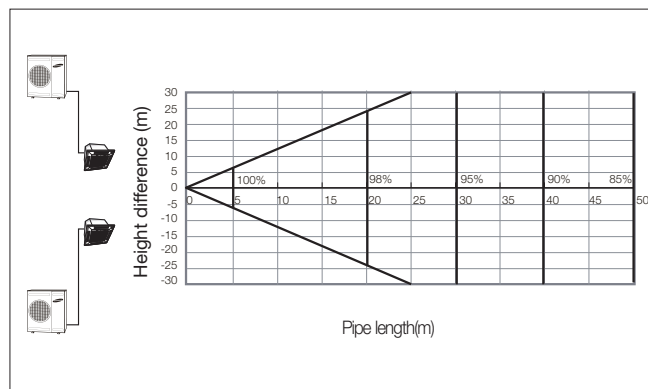


6) AC071FCAPEH/EU

(1) Cooling



(2) Heating

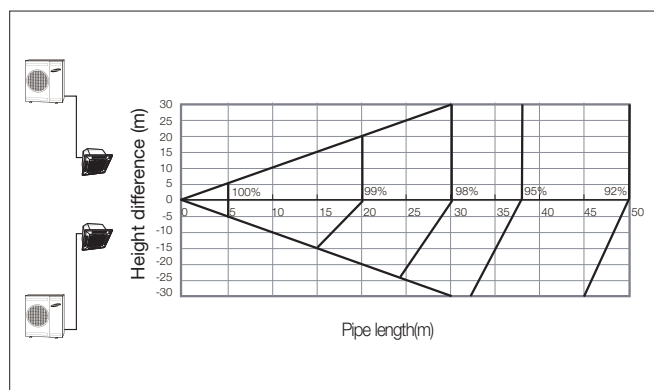


6 Outdoor units

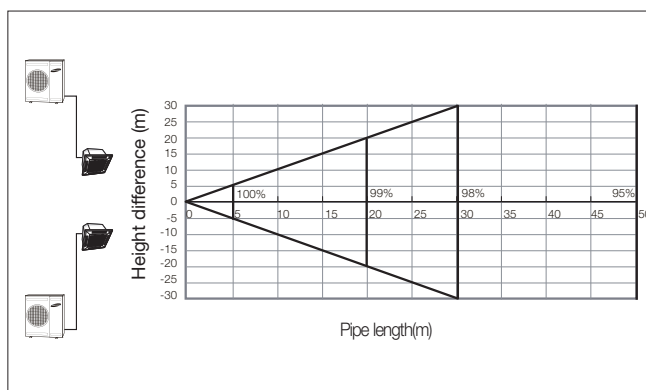
6-1. Capacity correction

7) AC090FCADEH/EU

(1) Cooling

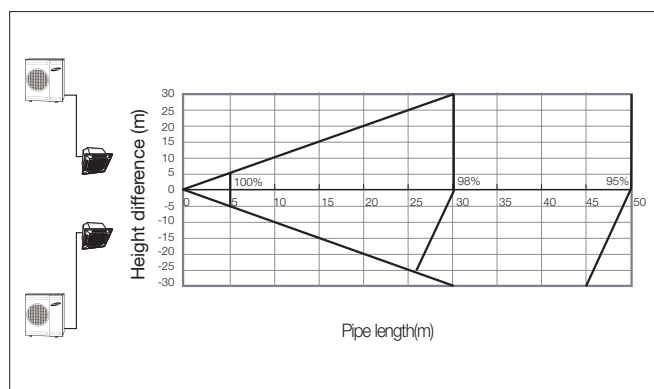


(2) Heating

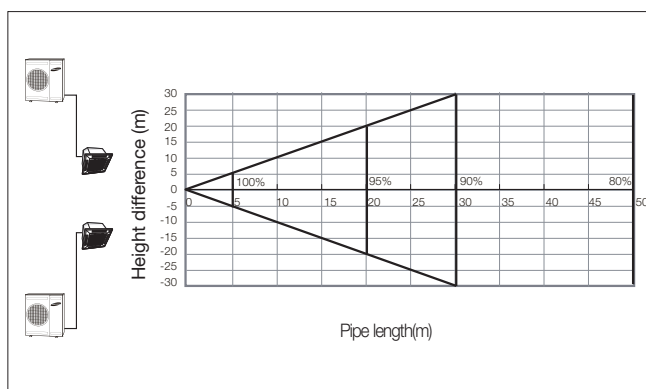


8) AC090FCAPEH/EU

(1) Cooling

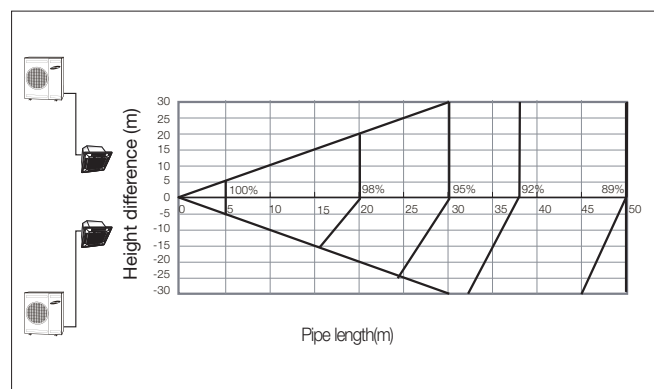


(2) Heating

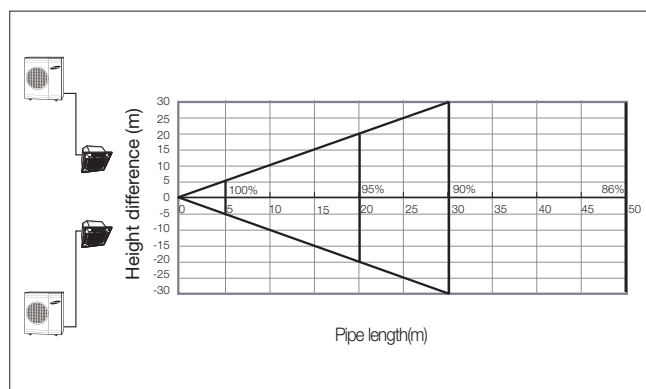


9) AC100FCADEH/EU, AC100FCADGH/EU

(1) Cooling

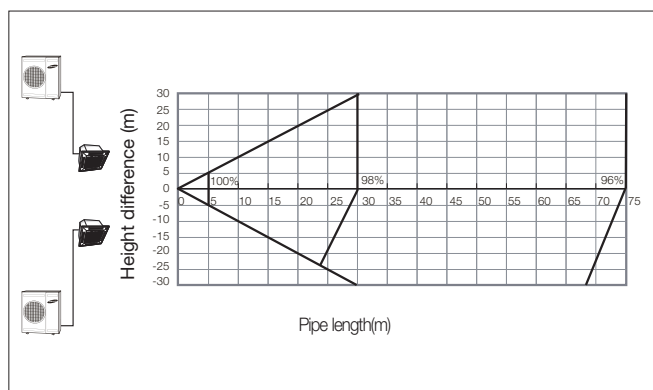


(2) Heating

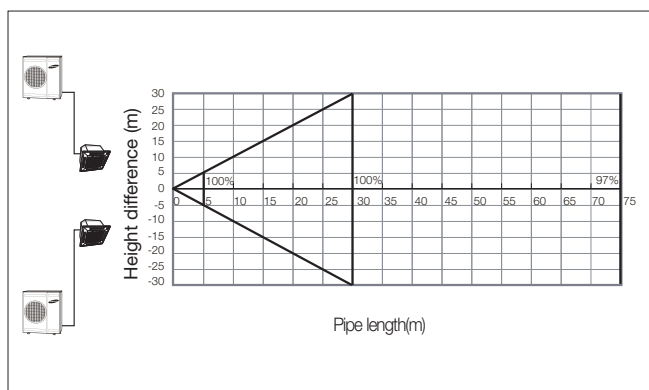


10) AC100FCAPEH/EU, AC100FCAPGH/EU

(1) Cooling

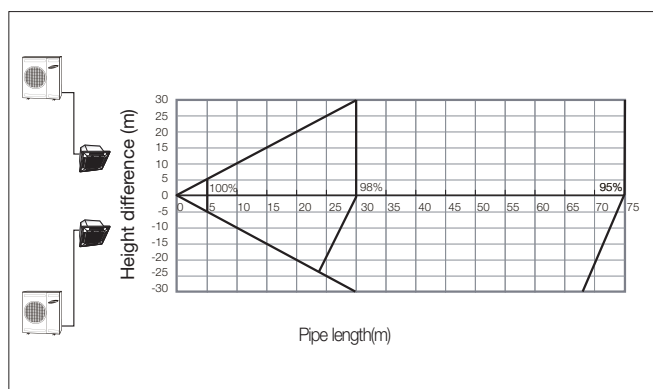


(2) Heating

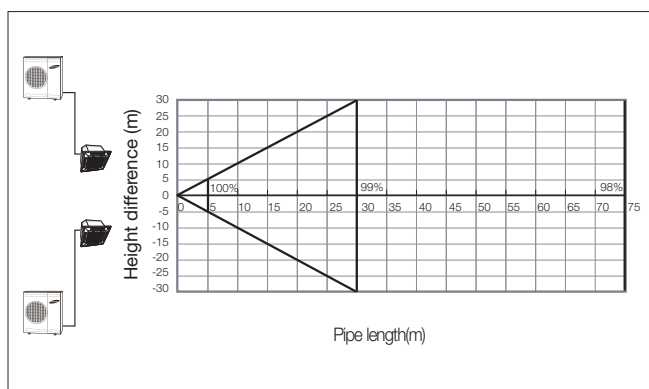


11) AC100FCAFEH/EU

(1) Cooling

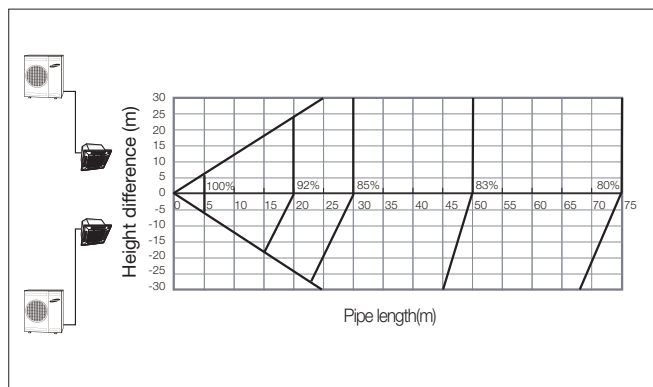


(2) Heating

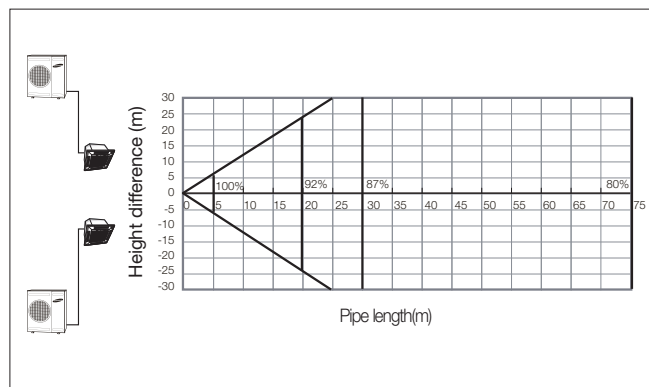


12) RC125DHXEB, RC125DHXGA

(1) Cooling



(2) Heating

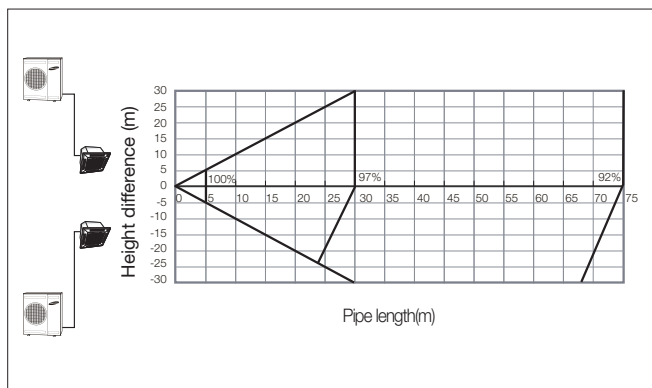


6 Outdoor units

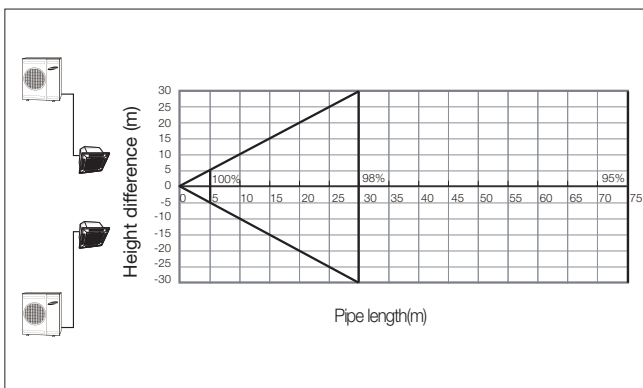
6-1. Capacity correction

13) RC125PHXEA, RC125PHXGA

(1) Cooling

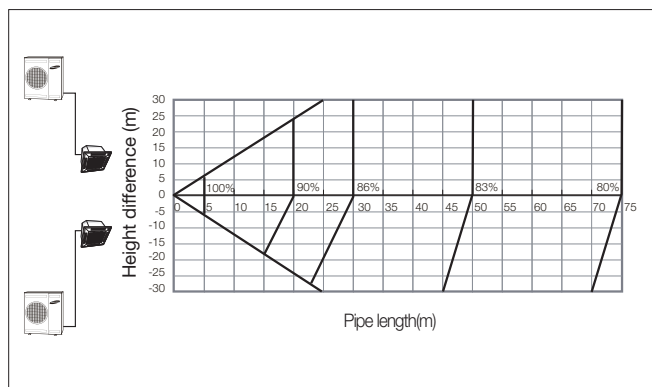


(2) Heating

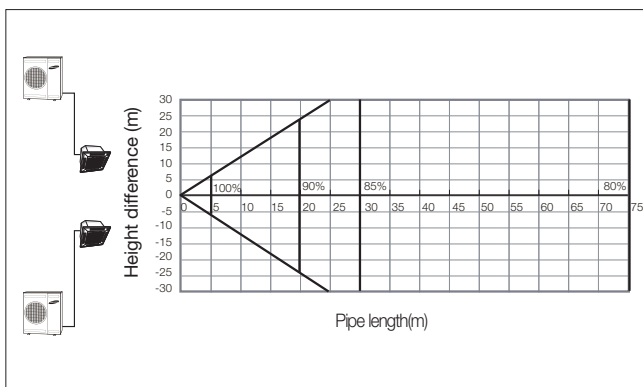


14) RC140DHXEB/RC140DHXGA

(1) Cooling

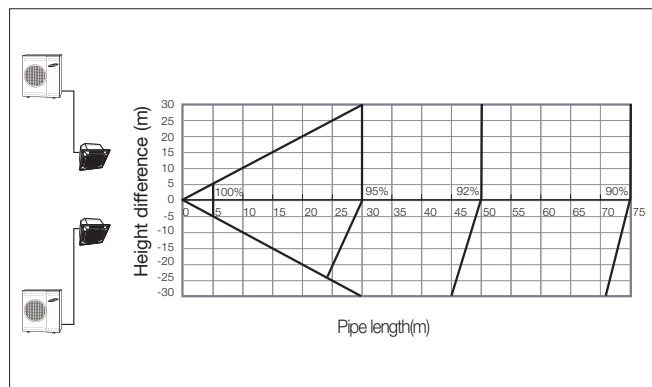


(2) Heating

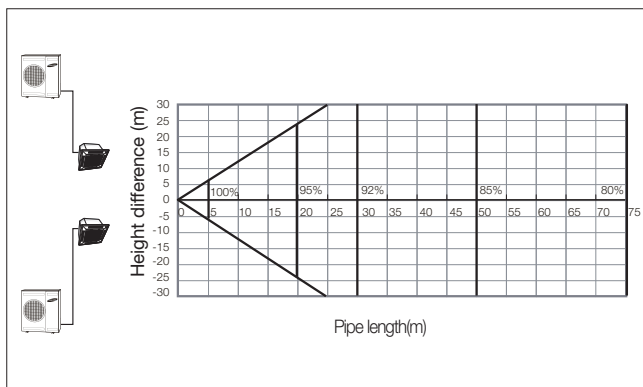


15) RC140PHXEA, RC140PHXGA

(1) Cooling

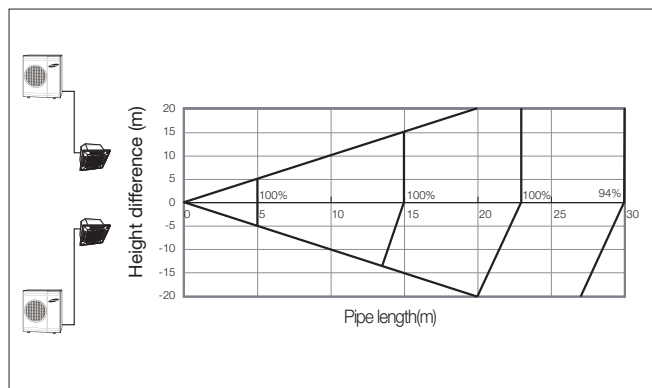


(2) Heating

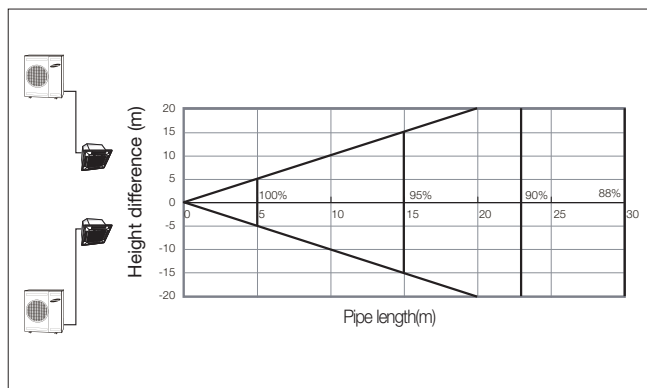


16) AC052FCASEH/EU

(1) Cooling

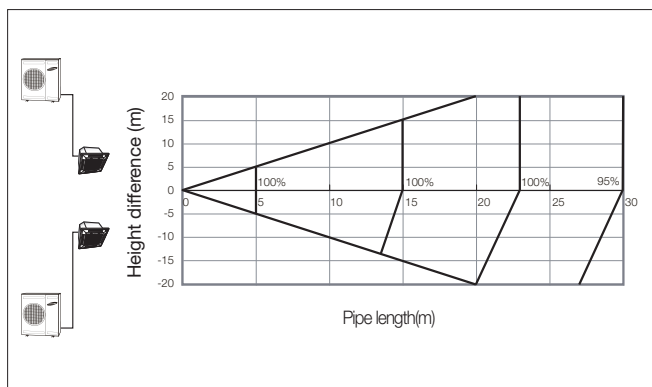


(2) Heating

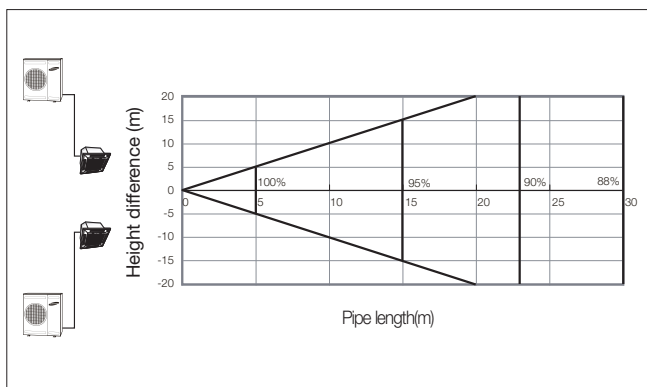


17) AC071FCASEH/EU

(1) Cooling

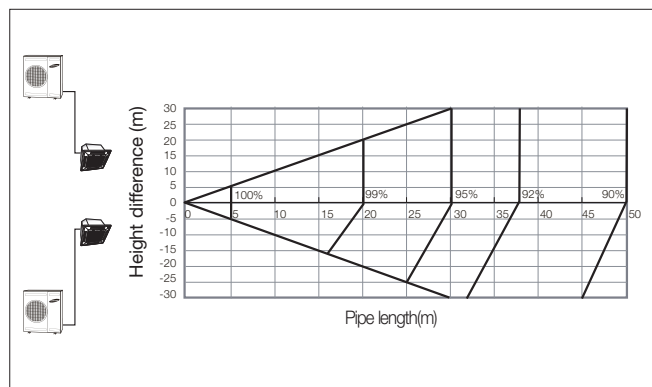


(2) Heating

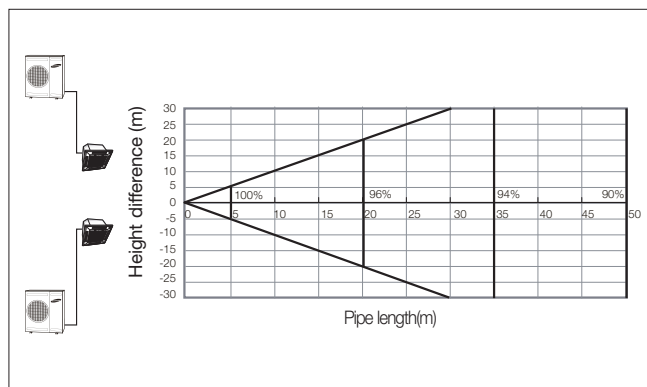


18) AC090FCASEH/EU

(1) Cooling



(2) Heating

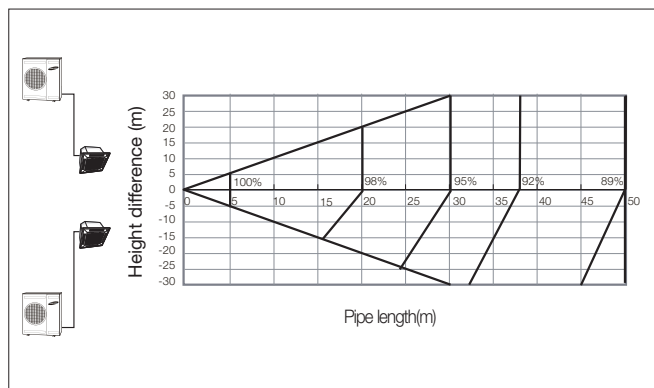


6 Outdoor units

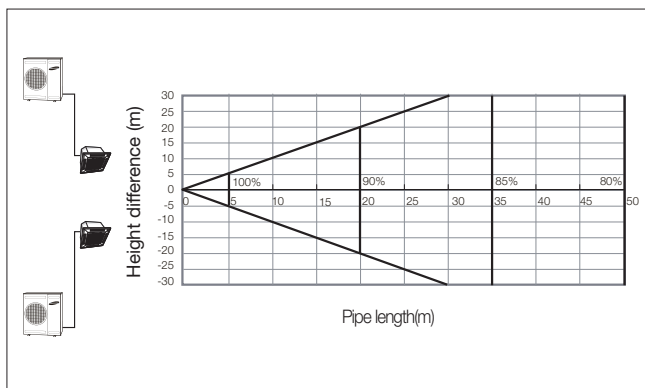
6-1. Capacity correction

19) AC100FCASEH/EU

(1) Cooling

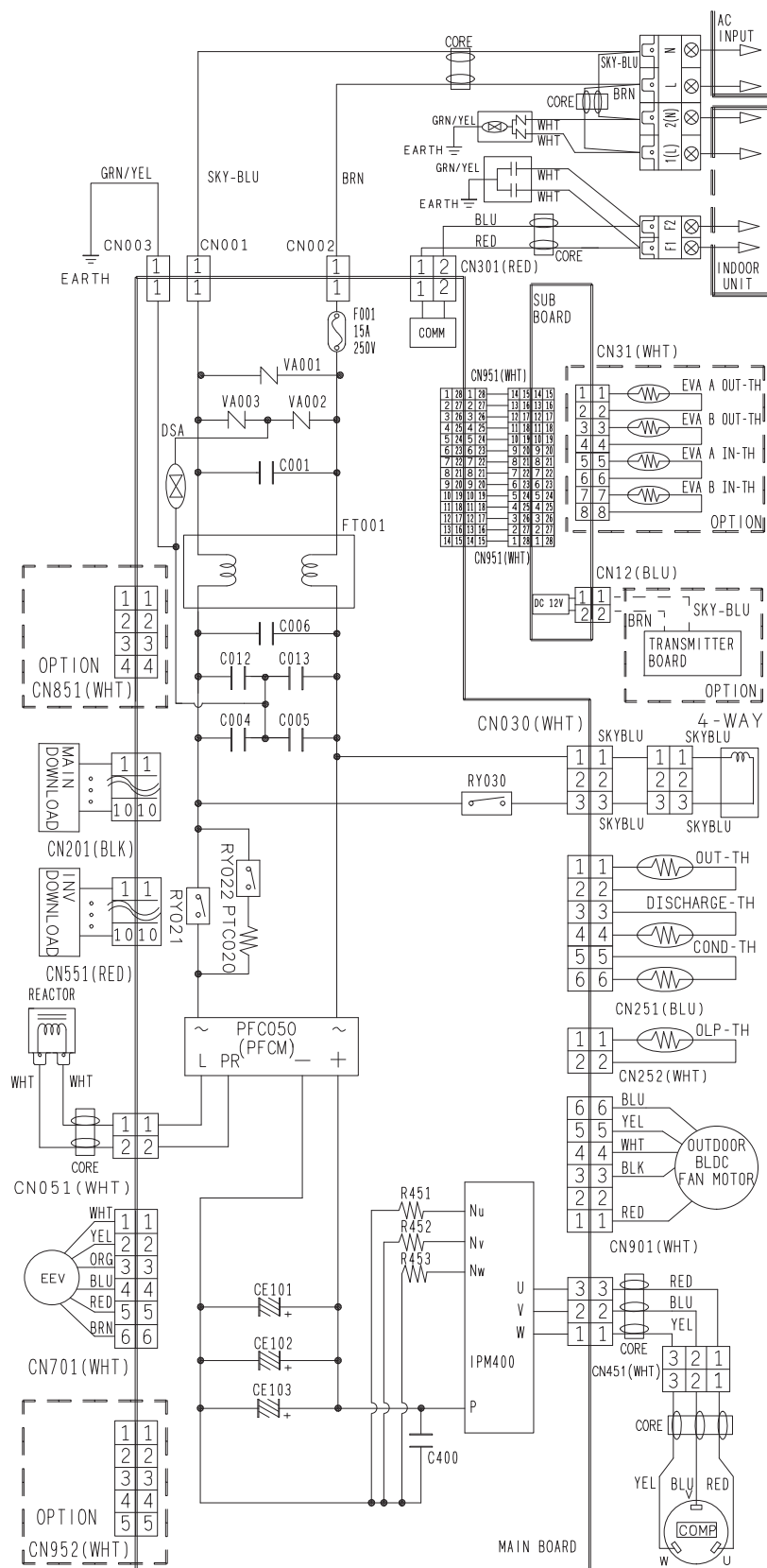


(2) Heating



6-2. Electrical wiring diagram

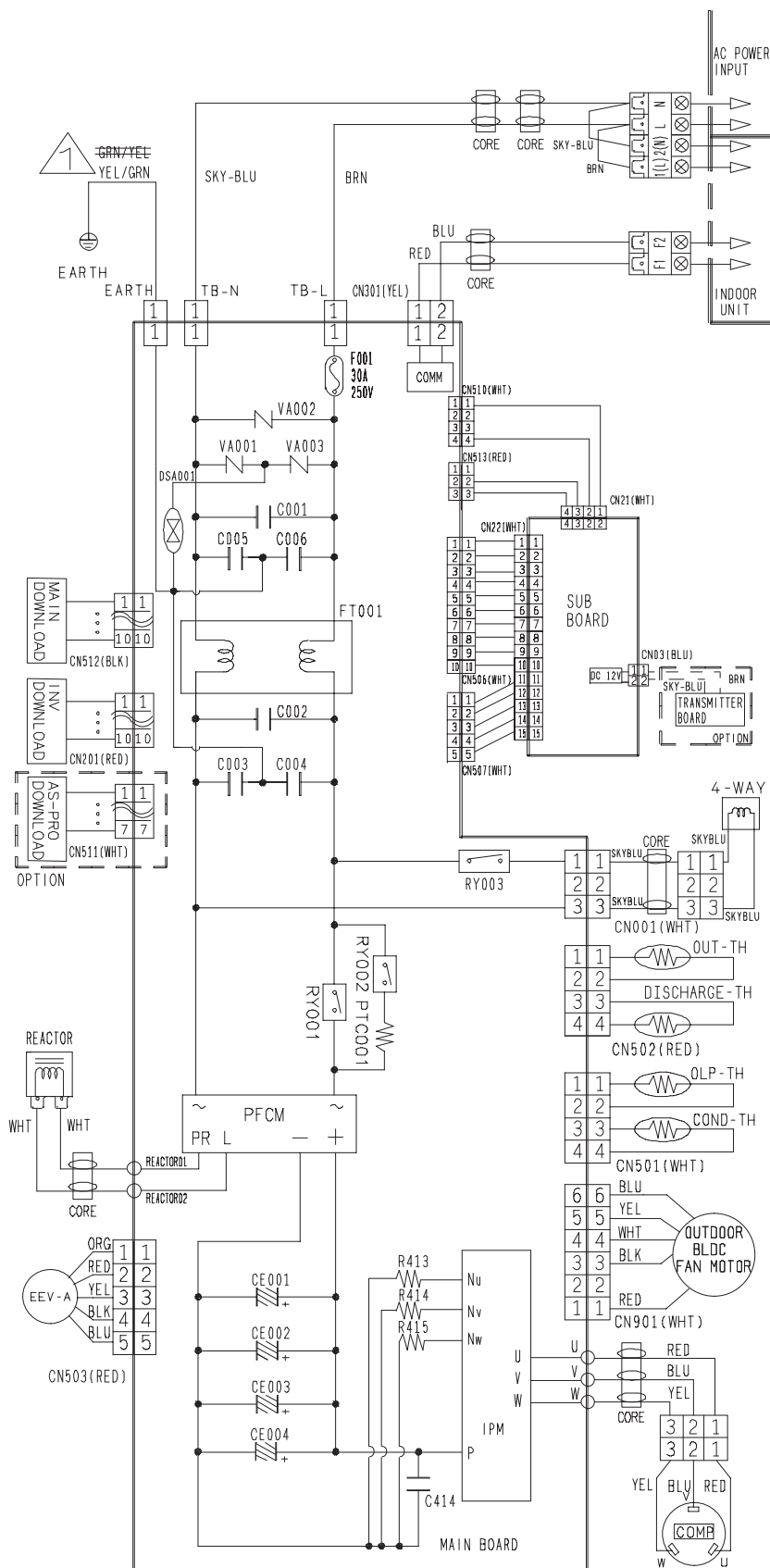
1) AC026/035/052FCADFH, AC052FCASEH



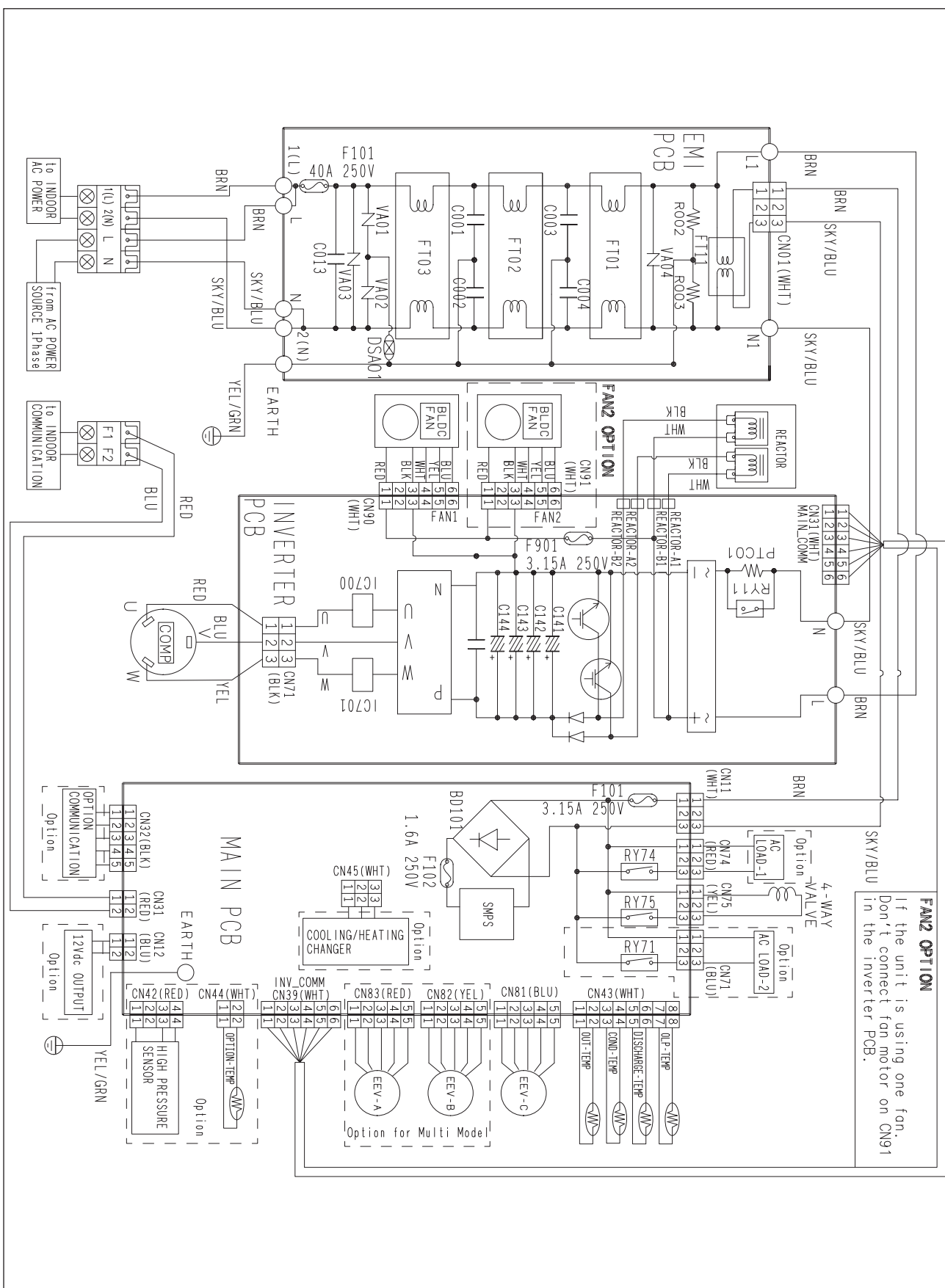
6 Outdoor units

6-2. Electrical wiring diagram

2) AC060/071FCAD5H, AC071FCAP(S)EH



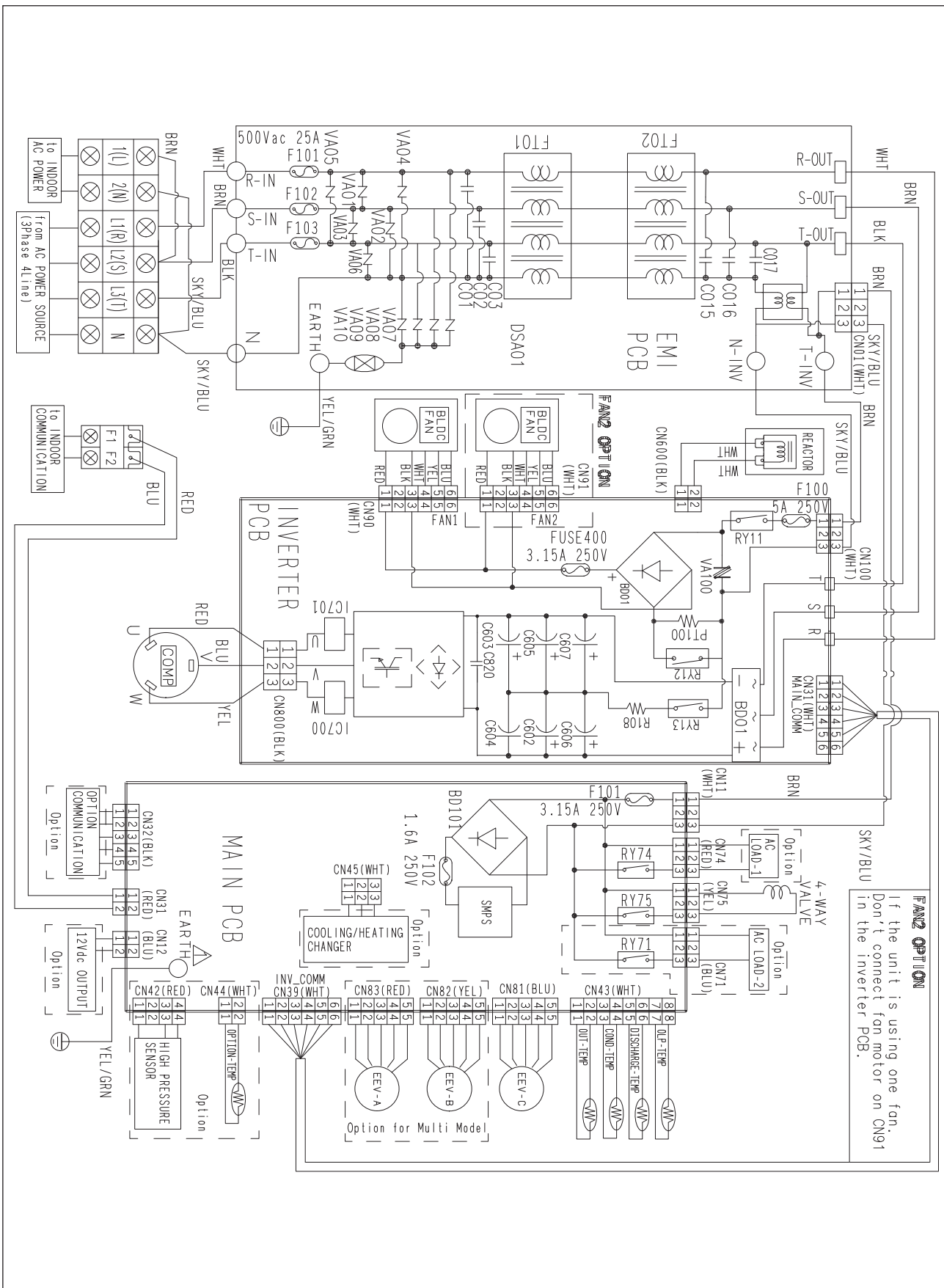
3) AC090/100FCA*EH, AC100FCAFEH, RC125/140D(P)HXE*



6

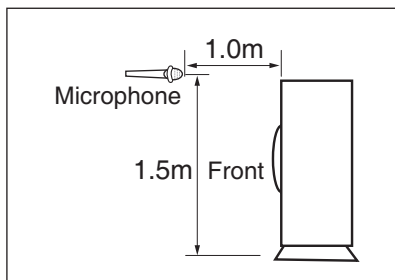
6-2. Electrical wiring diagram

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



6-3. Sound pressure level

1) Operation sound level



Unit: dB(A)

Model	Cooling	Heating
AC026FCADH/EU	46	47
AC035FCADH/EU	47	48
AC052FCADH/EU	48	49
AC060FCADH/EU	49	50
AC071FCADH/EU	49	51
AC052FCADH/EU	48	49
AC071FCADH/EU	49	51
AC071FCAPEH/EU	49	51
AC090FCADH/EU	51	52
AC090FCAPEH/EU	52	53
AC100FCADH/EU	52	54

Unit: dB(A)

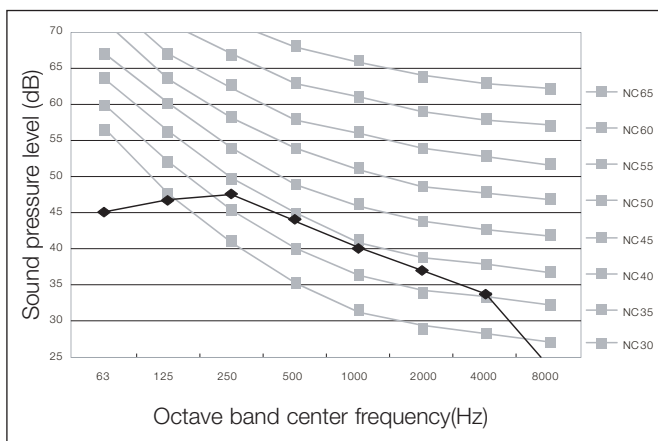
Model	Cooling	Heating
AC100FCADGH/EU	52	54
AC100FCAPEH/EU	50	52
AC100FCAPGH/EU	50	52
AC100FCAFEH/EU	49	51
RC125DHXEB	51	52
RC125DHXGA	51	52
RC125PHXEA	51	52
RC125PHXGA	51	52
RC140DHXEB	52	54
RC140DHXGA	52	54
RC140PHXEA	51	53
RC140PHXGA	51	53

✓ Note

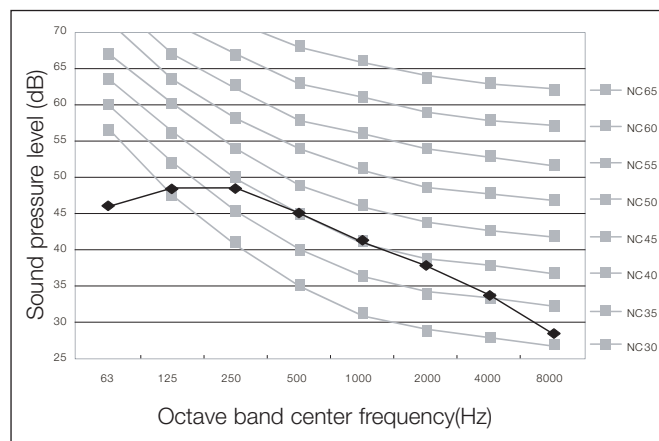
- ◆ These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- ◆ Operation sound level may differ depending on operation and ambient conditions.

2) NC curves

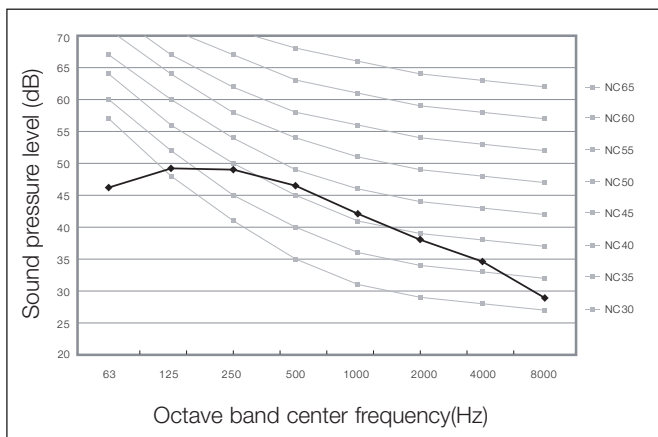
(1) AC026FCADH/EU



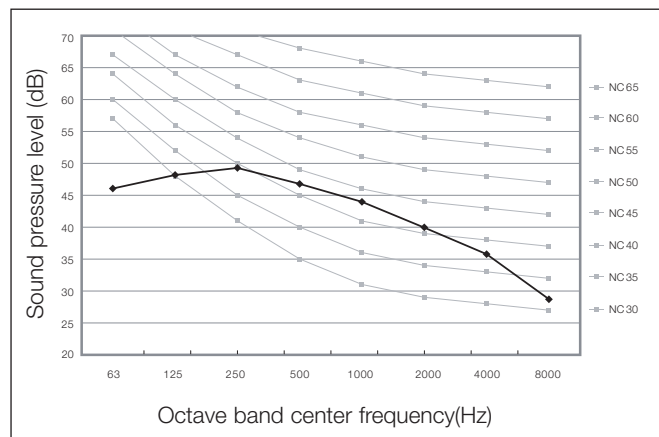
(2) AC035FCADH/EU



(3) AC052FCADH/EU



(4) AC060FCADH/EU

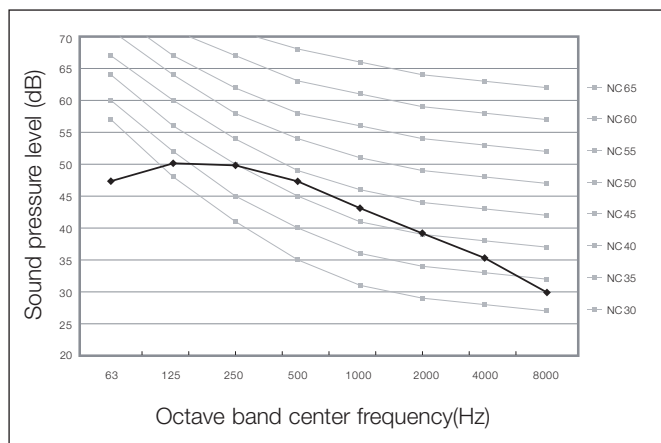


6 Outdoor units

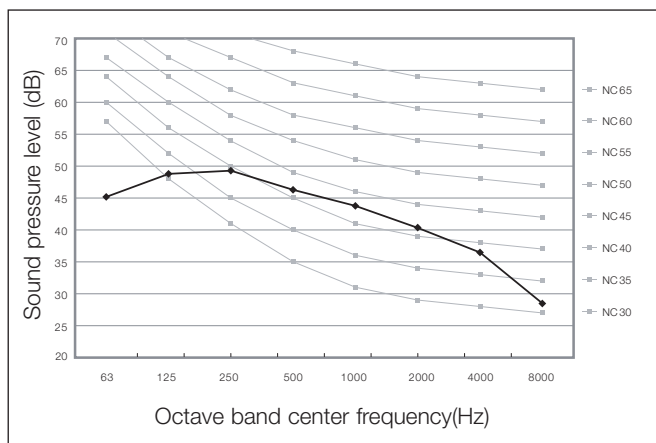
6-3. Sound pressure level

2) NC curves

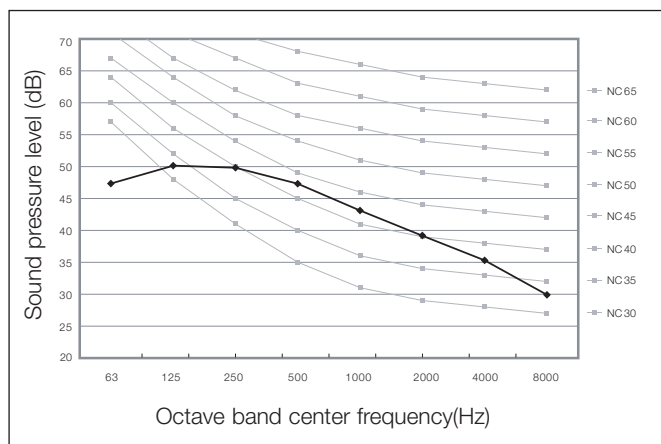
(5) AC071FCADEH/EU



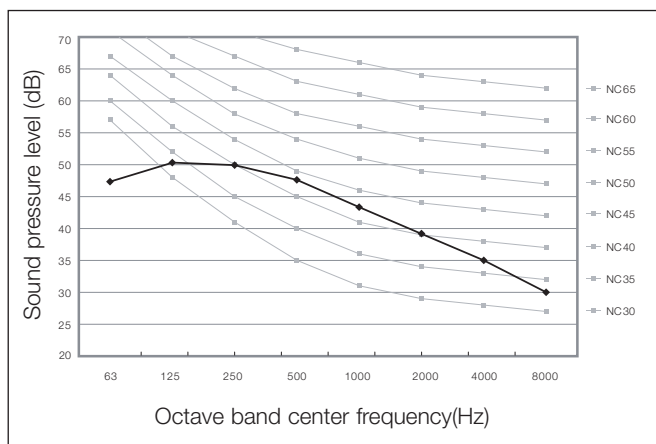
(6) AC052FCADEU/EU



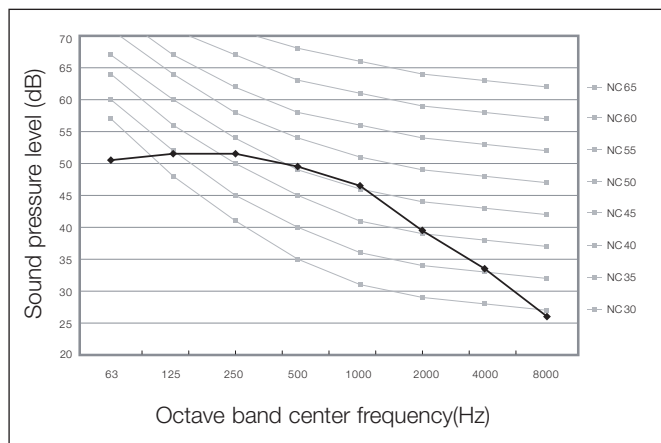
(7) AC071FCADEH/EU



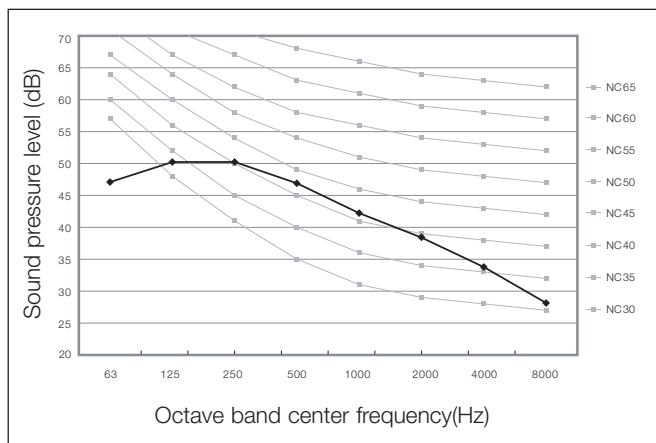
(8) AC071FCAPEH



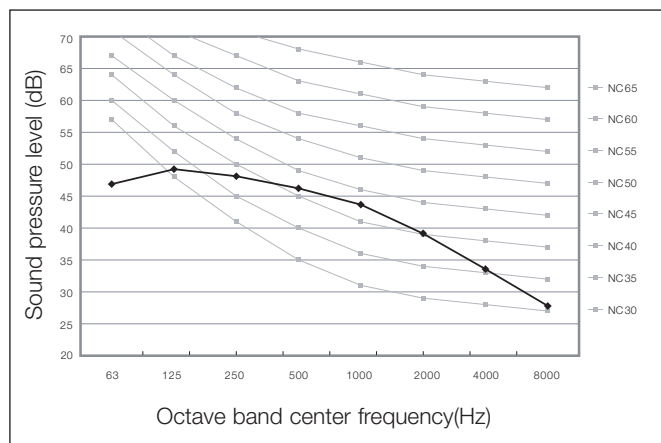
(9) AC090FCADEH/EU



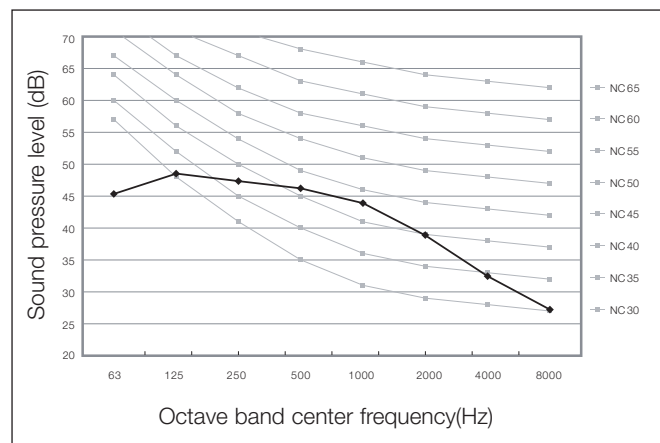
(10) AC090FCAPEH/EU



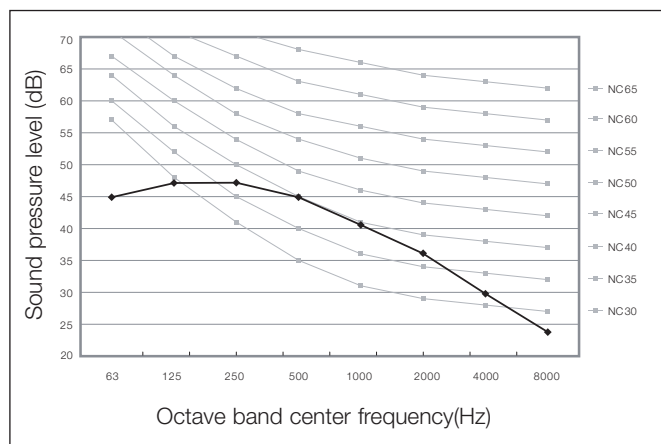
(11) AC100FCADEH/EU



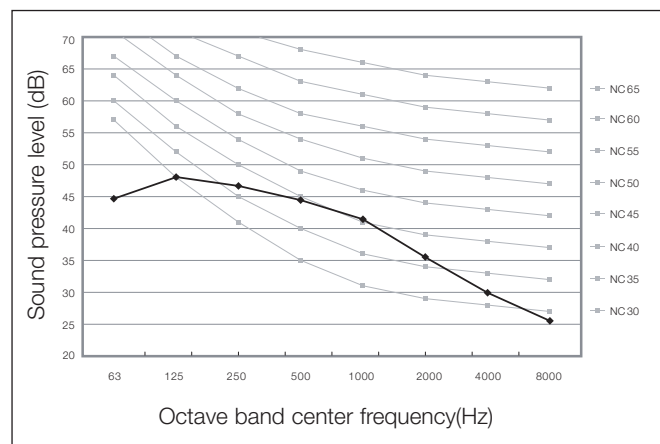
(12) AC100FCADGH/EU



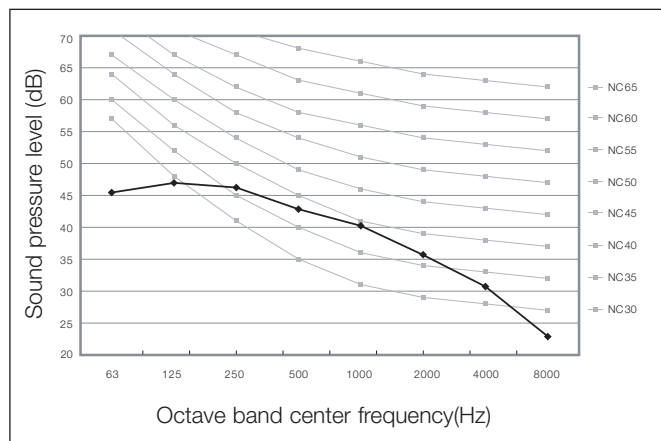
(13) AC100FCAPEH/EU



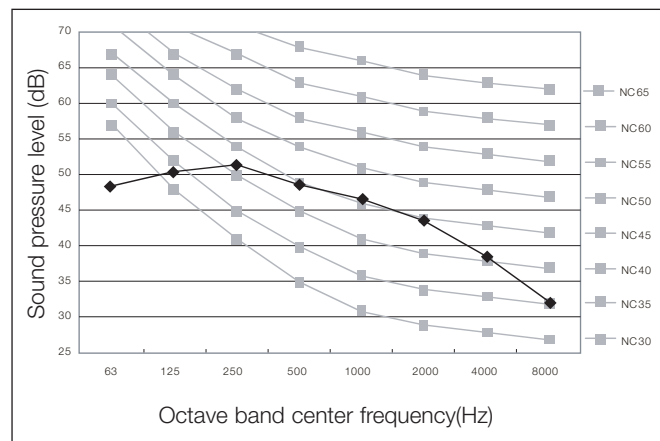
(14) AC100FCAPGH/EU



(15) AC100FCAFEH/EU



(16) RC125DHXEB

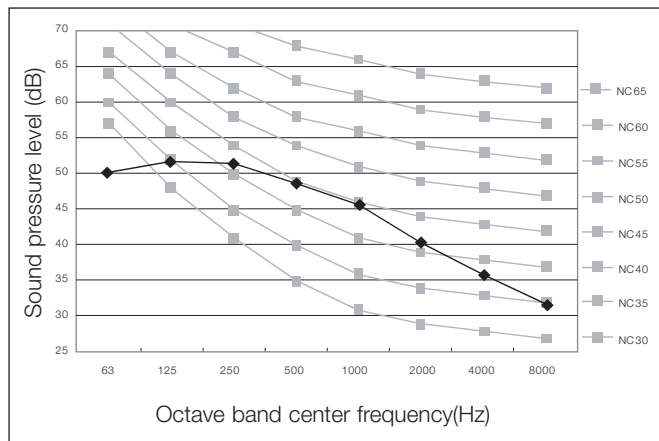


6 Outdoor units

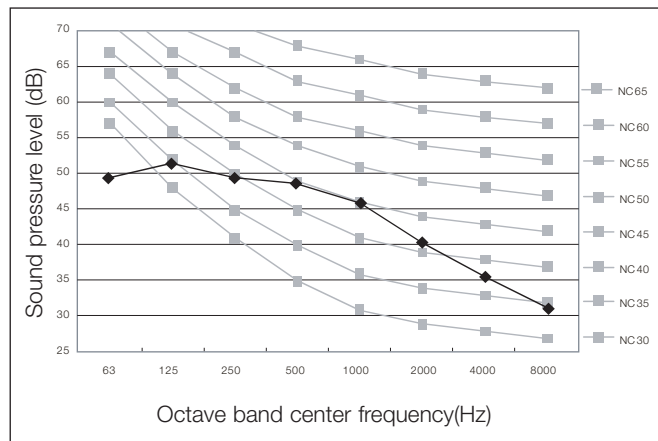
6-3. Sound pressure level

2) NC curves

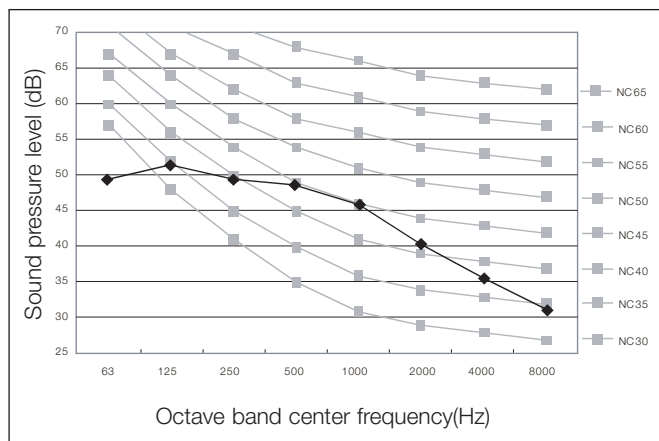
(17) RC125DHXGA



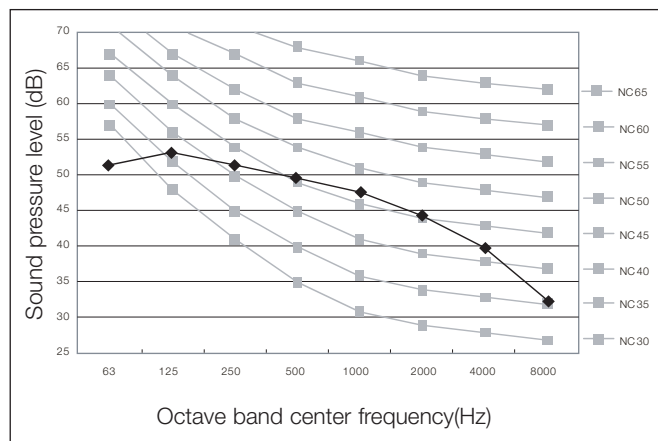
(18) RC125PHXEA



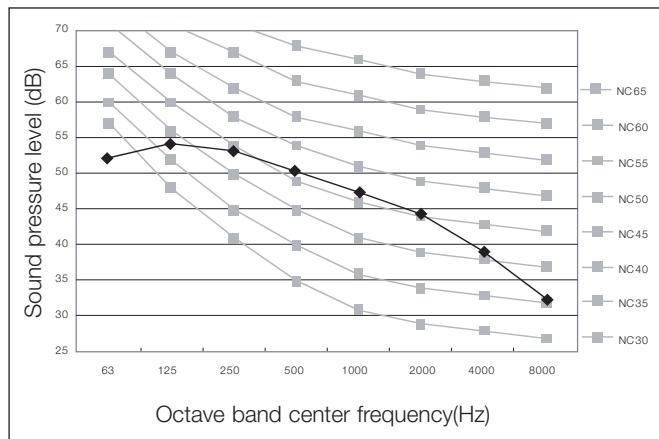
(19) RC125PHXGA



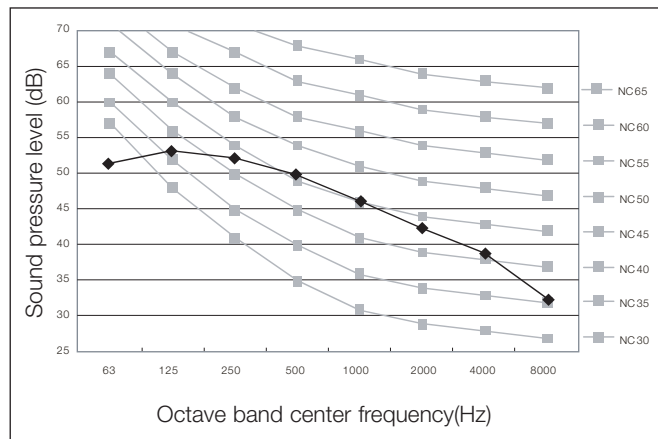
(20) RC140DHXEB



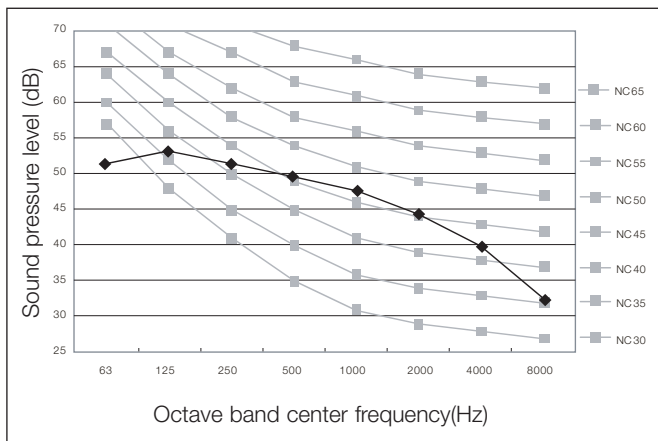
(21) RC140DHXGA



(22) RC140PHXEA

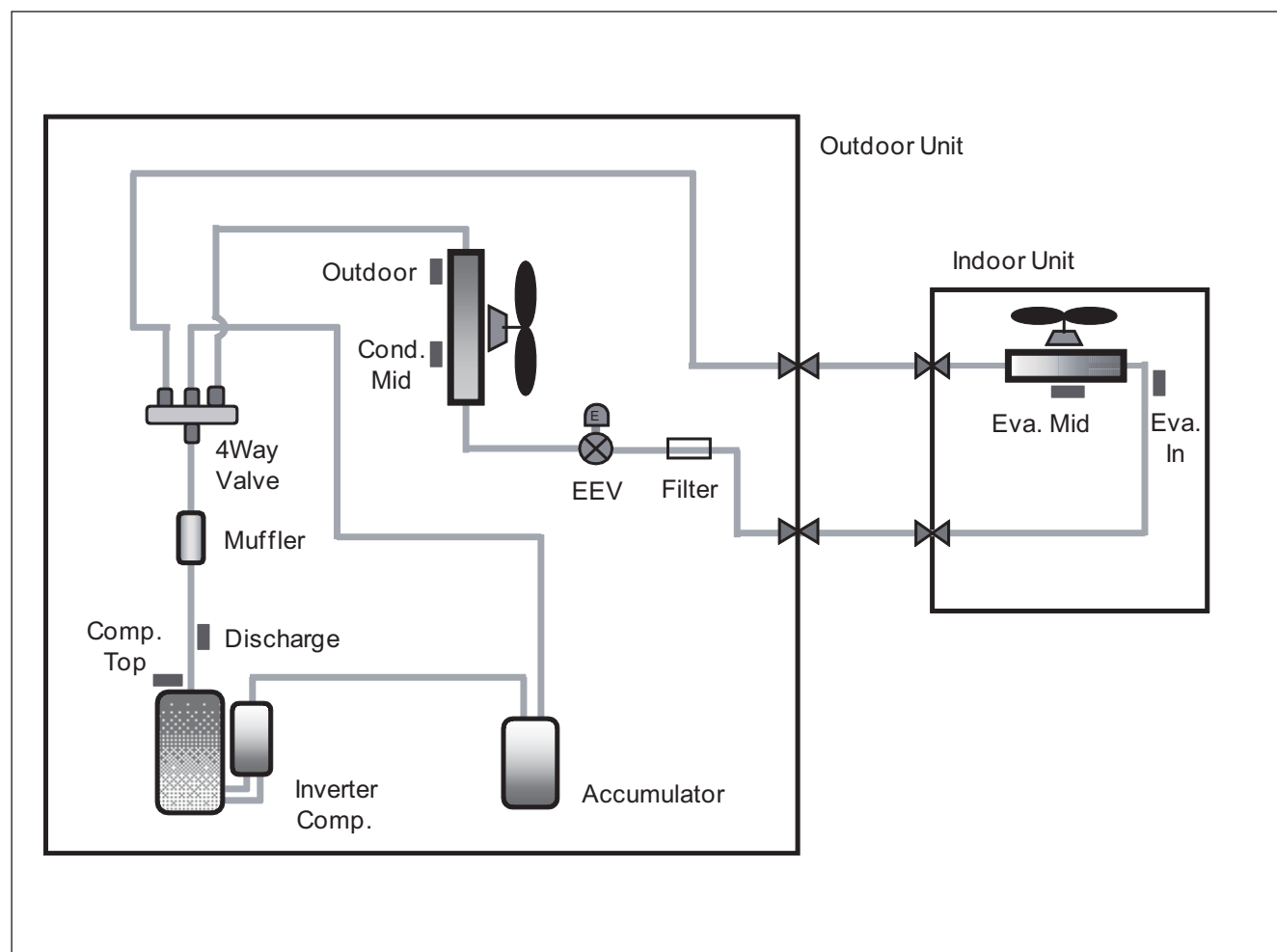


(23) RC140PHXGA



6 Outdoor units

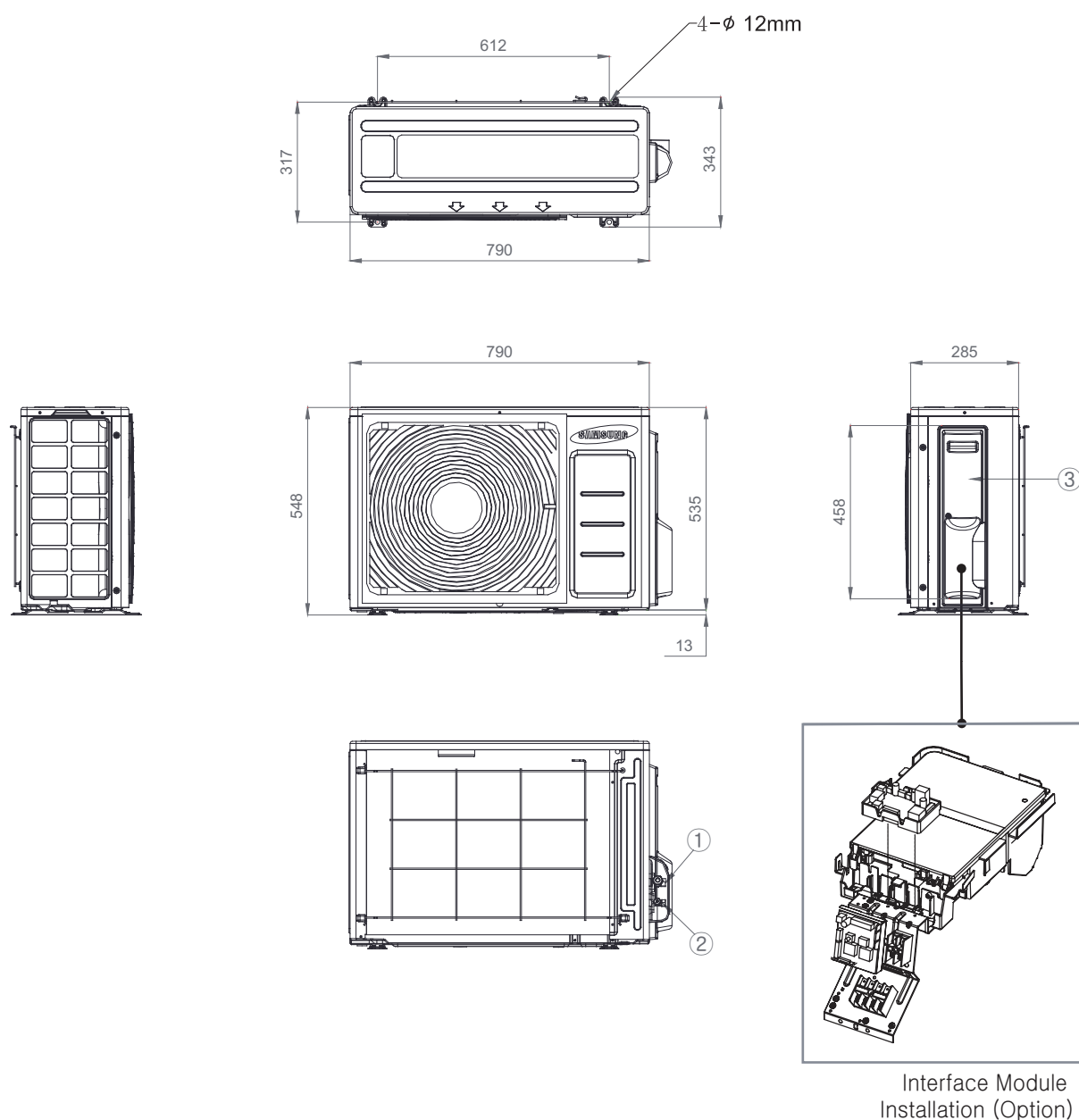
6-4. Cycle diagram



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

6-5 Dimensional drawing

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

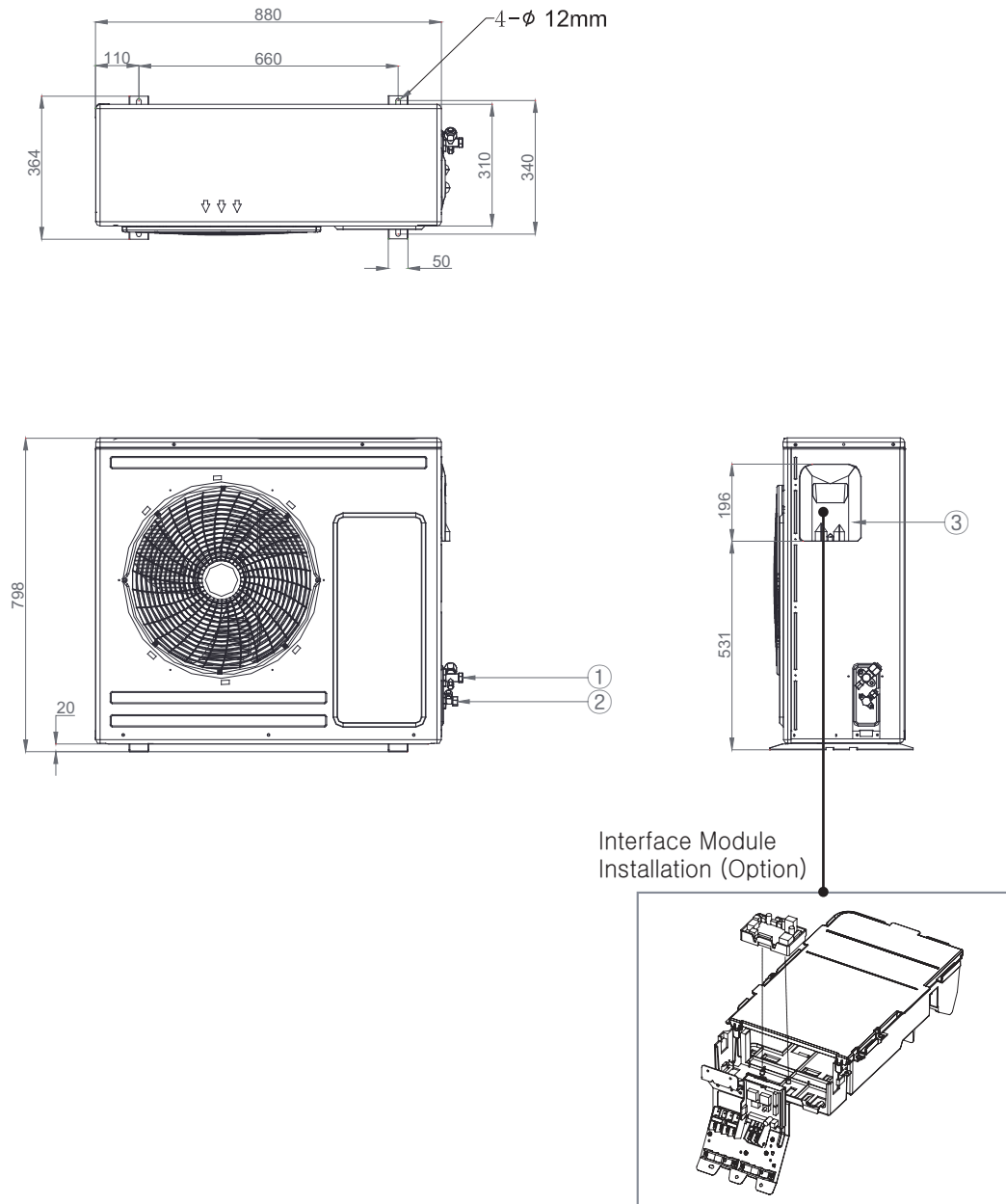


No.	Name		Description		
			2.6kW	3.5kW	5.2kW
①	Gas Ref. Pipe	Ø, mm (inch)	9.52 (3/8)	12.70 (1/2)	
②	Liquid Ref. Pipe	Ø, mm (inch)	6.35 (1/4)	6.35 (1/4)	
③	Power & Comm. wiring conduits		—		

6 Outdoor units

6-5 Dimensional drawing

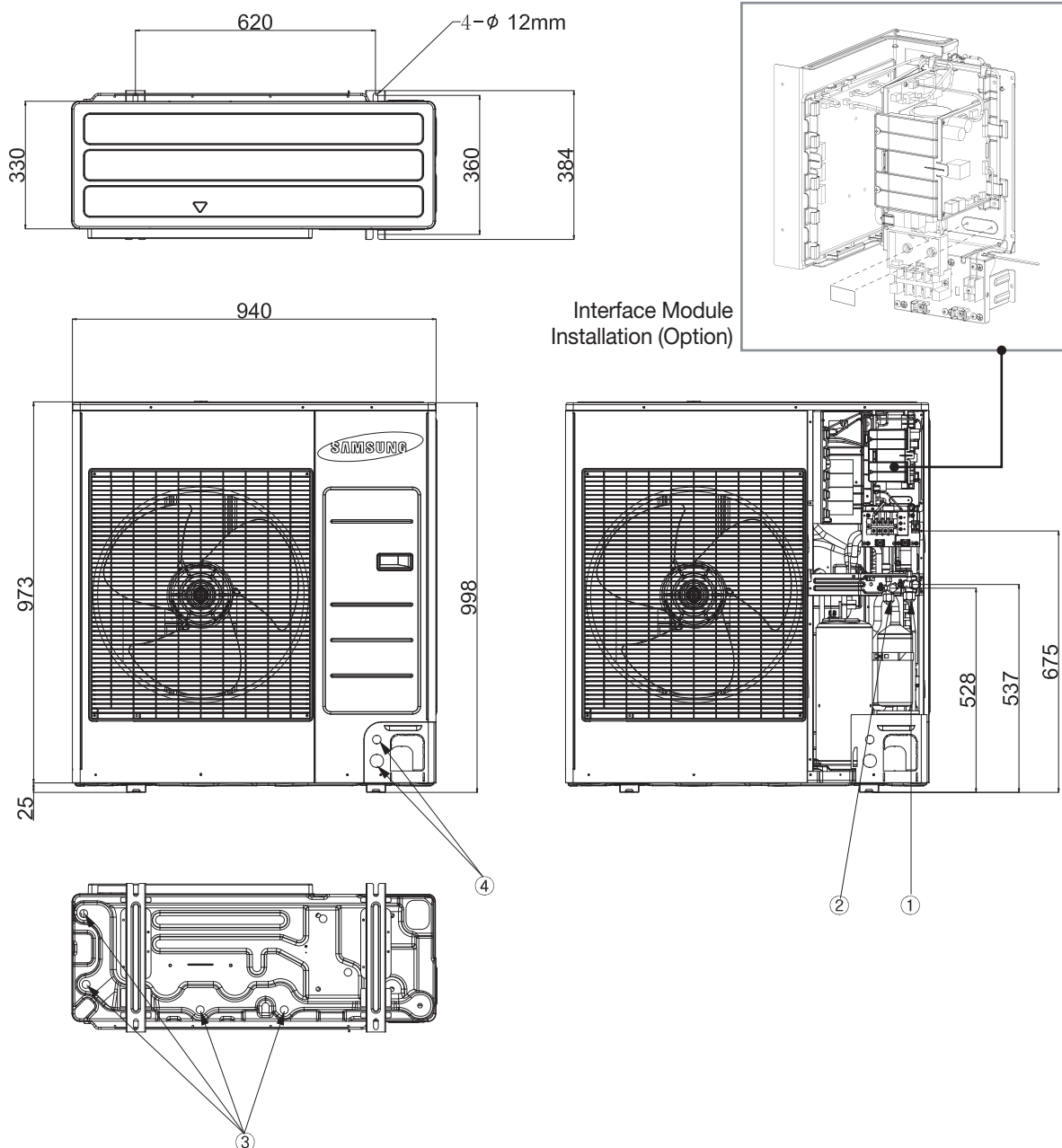
2) AC060/071FCADEH/EU, AC071FCAPEH/EU



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	Power & Comm. wiring conduits		—	

6-5 Dimensional drawing

3) AC090FCADFH/EU, AC090FCAPEH/EU, AC100FCADFH/EU, AC100FCADGH/EU,
AC090FCASEH/EU, AC100FCASEH/EU

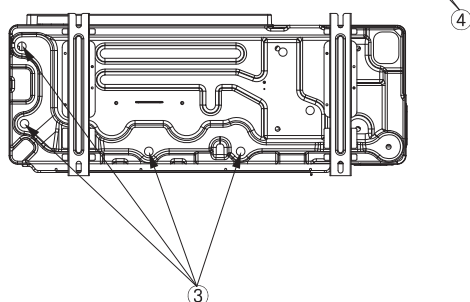
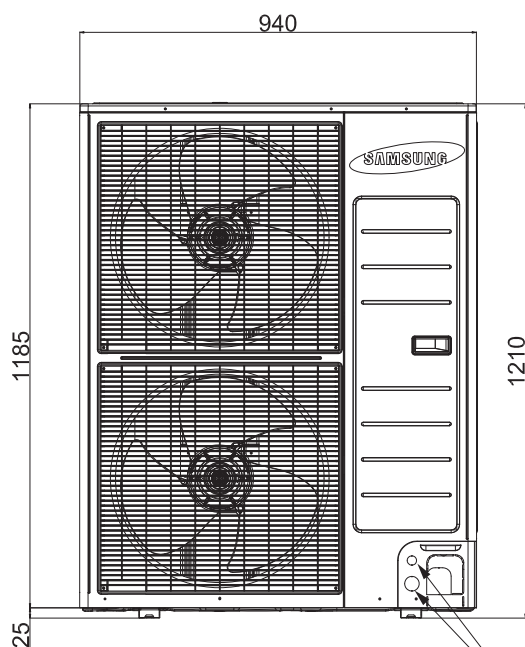
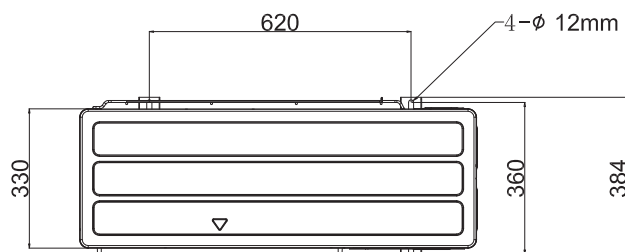


No.	Name		Description	
			9.0kW	10.0kW
①	Gas Ref. Pipe	a, mm (inch)	15.88 (5/8)	
②	Liquid Ref. Pipe	ϕ , mm (inch)	9.52 (3/8)	
③	Condensate Drain Holes	ϕ , mm	20 x 4	
④	Power & Communication Wiring Holes	ϕ , mm	22.2 x 3 / 34.5 x 3	

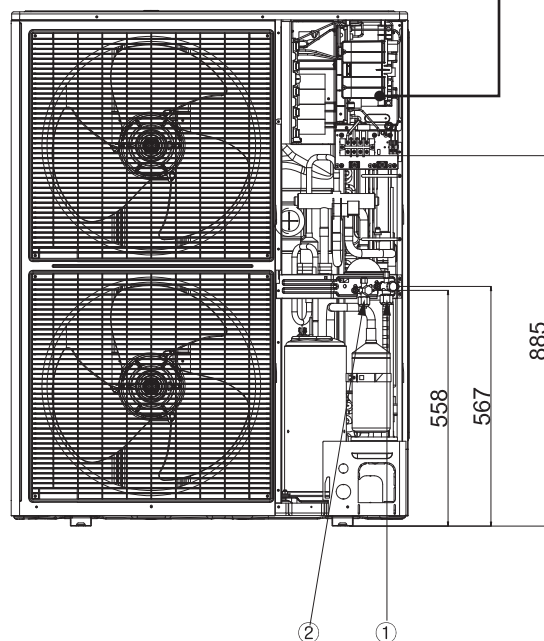
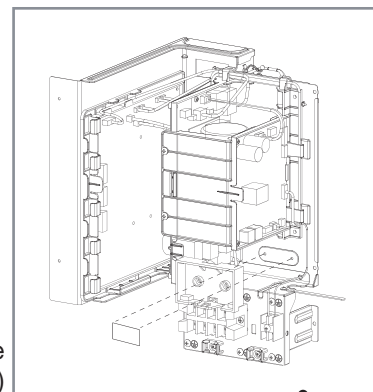
6 Outdoor units

6-5. Dimensional drawing

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



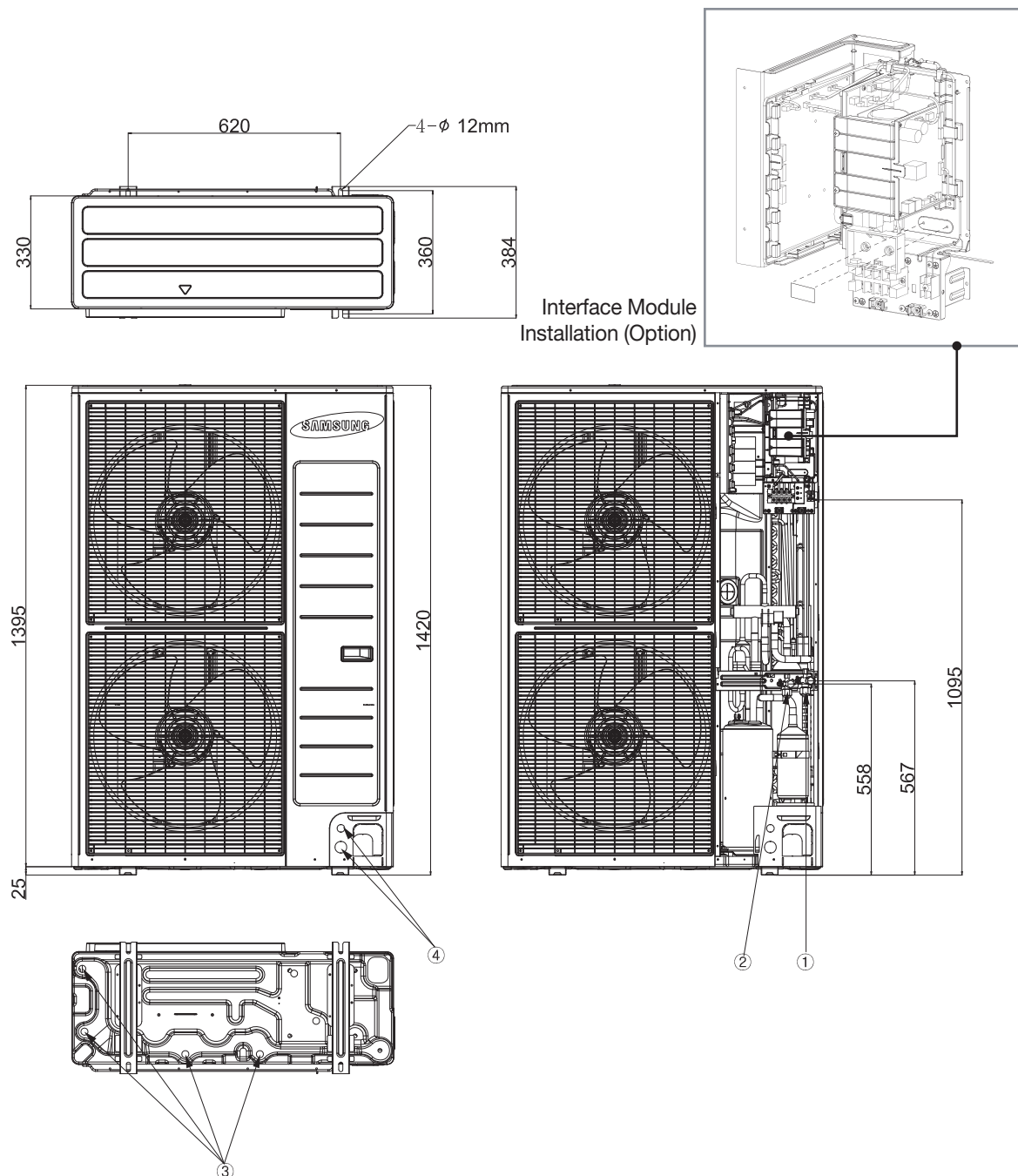
Interface Module
Installation (Option)



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		

6-5 Dimensional drawing

7) AC100FCAFEH/EU, RC140PHXE/GA



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



Installation

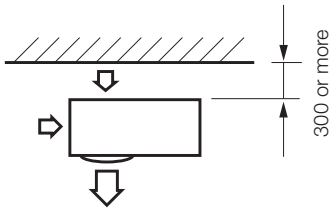
III. Installation

1	Space requirements	132
2	Electric specifications	134
3	Wiring works	135
4	Refrigerant piping works	138
5	Setting an indoor unit address & installation option...	144
6	Error code	151

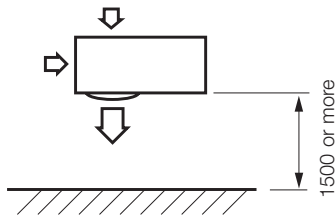
1 Space requirements

1-1. Single installation

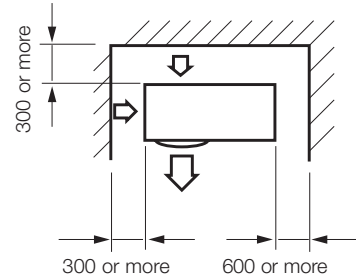
(Unit: mm)



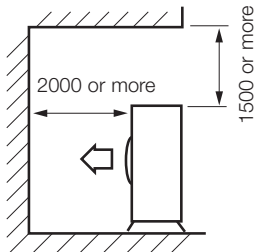
* When the air outlet is opposite the wall



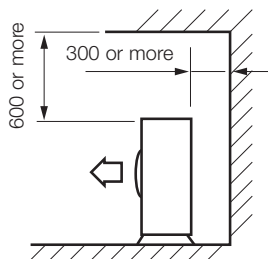
* When the air outlet is towards the wall



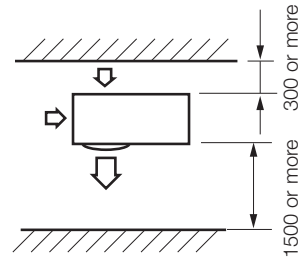
* When 3 sides of the outdoor unit are blocked by the wall



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



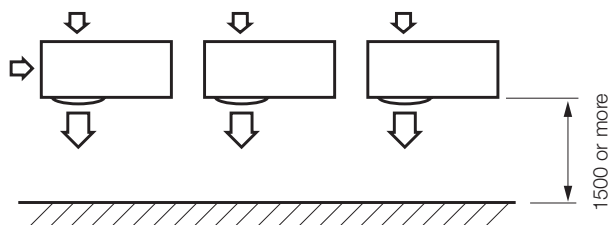
* The upper part of the outdoor unit and the air outlet is opposite the wall



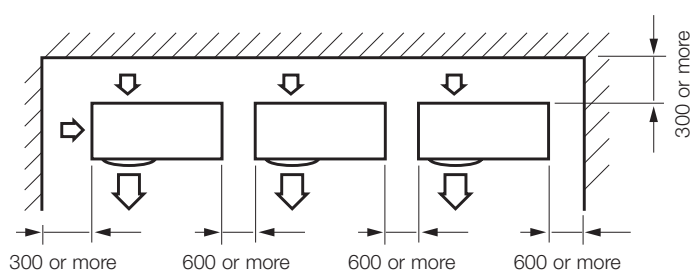
* When front and rear side of the outdoor unit is towards the wall

1-2. Group installation

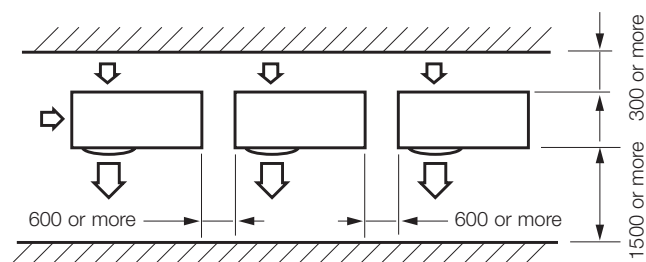
(Unit: mm)



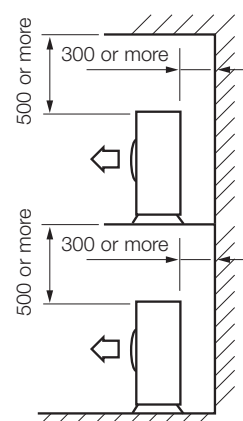
※ When the air outlet is towards the wall



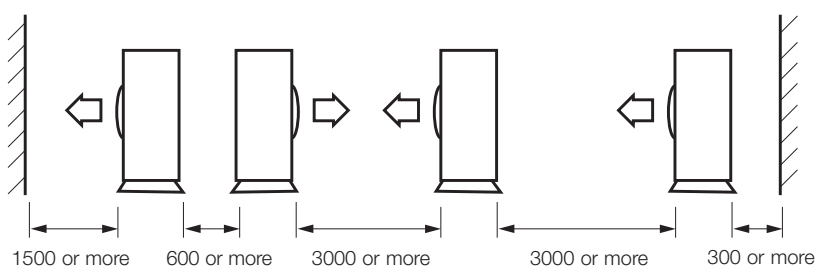
※ When 3 sides of the outdoor unit are blocked by the wall



※ 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
	AC071FB4DEH/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
		RC125DHXEB	50	220~240	198	264	25.00	30.00
	NS1254DXEA	RC125DHXGA	50	380~415	342	456.5	13.00	15.00
		RC125PHXEA	50	220~240	198	264	25.00	30.00
	NS1254PXE	RC125PHXGA	50	380~415	342	456.5	13.00	15.00
		RC140DHXEB	50	220~240	198	264	25.00	30.00
	NS1404DXEA	RC140DHXGA	50	380~415	342	456.5	13.00	15.00
		RC140PHXEA	50	220~240	198	264	33.00	40.00
	NS1404PXE	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
	NS125SDXE	RC125DHXEB	50	220~240	198	264	26.00	30.00
		RC125DHXGA	50	380~415	342	456.5	14.00	15.40
	NS140SDXE	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

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

※ Abbreviations

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

3 Wiring works

3-1. Power supply and communication cable configuration

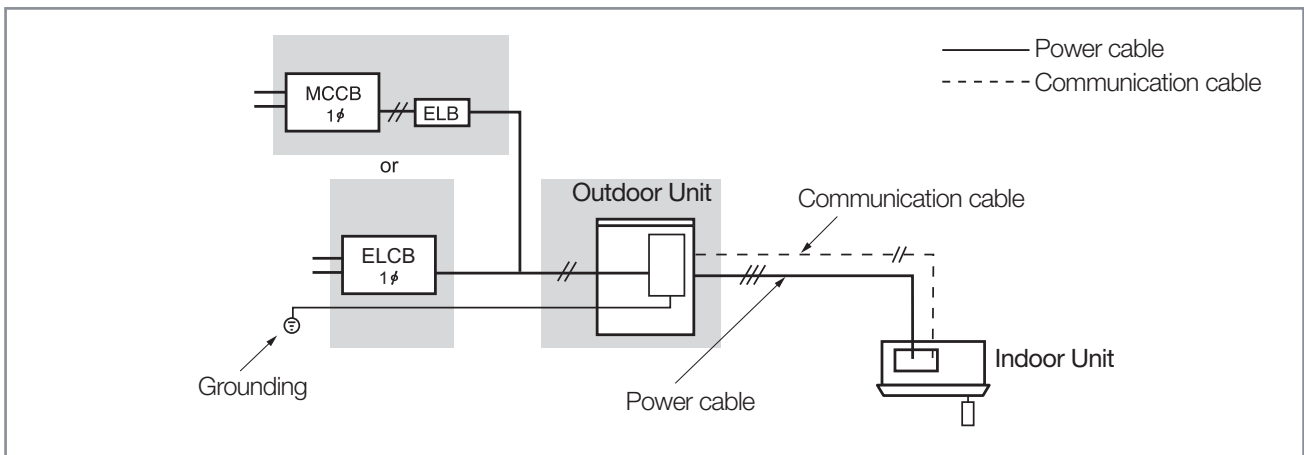
✎ Two electronic cables must be connected to the outdoor unit.

- 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.

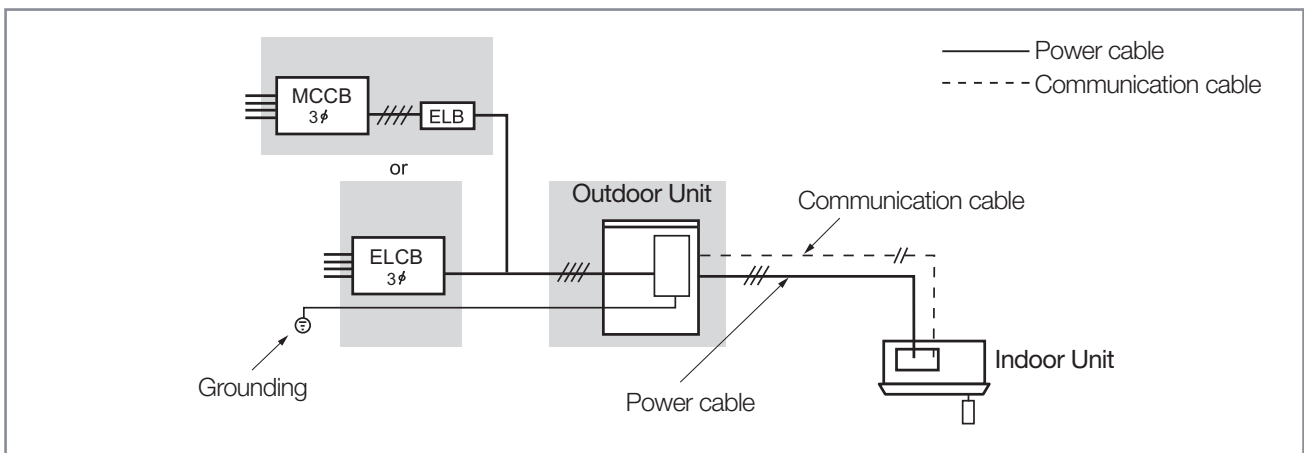
☑ Caution

- ◆ 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



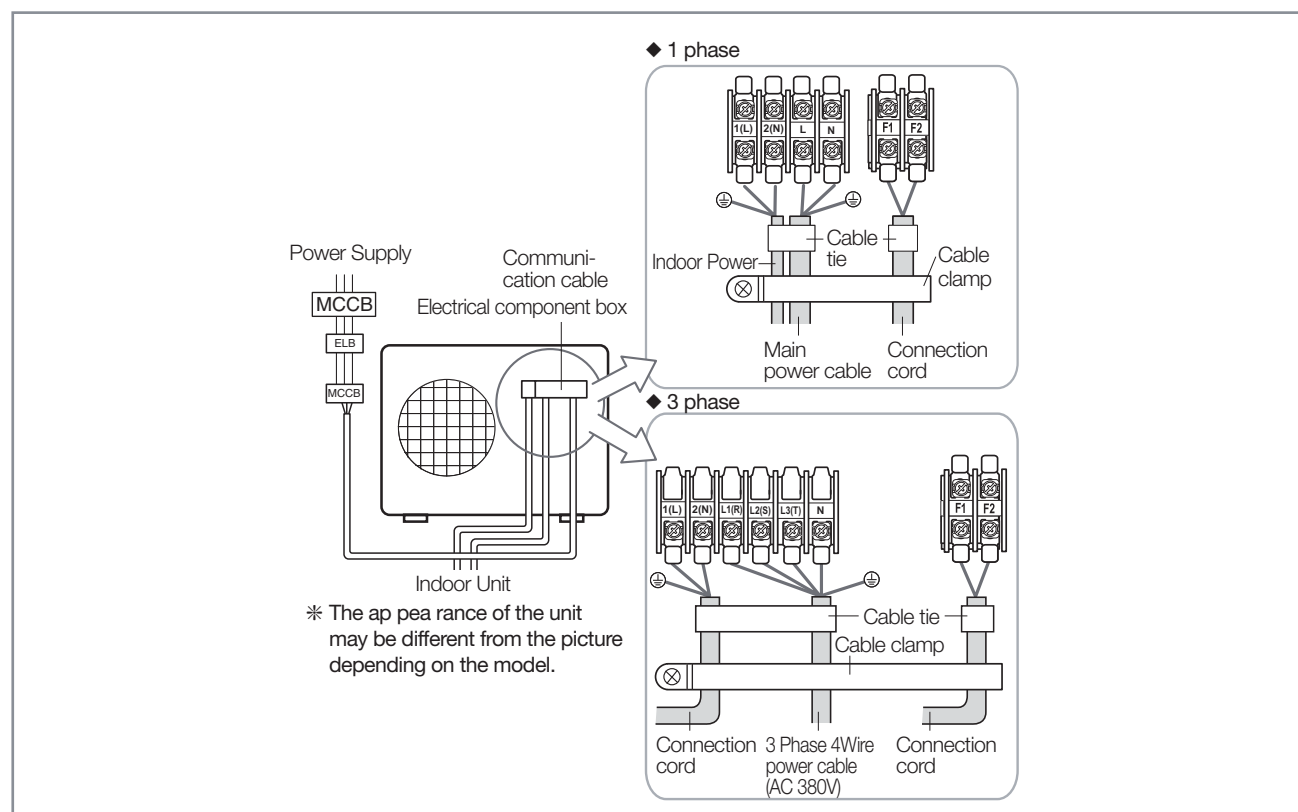
2) When using ELB for 3 phase



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

3 Wiring works

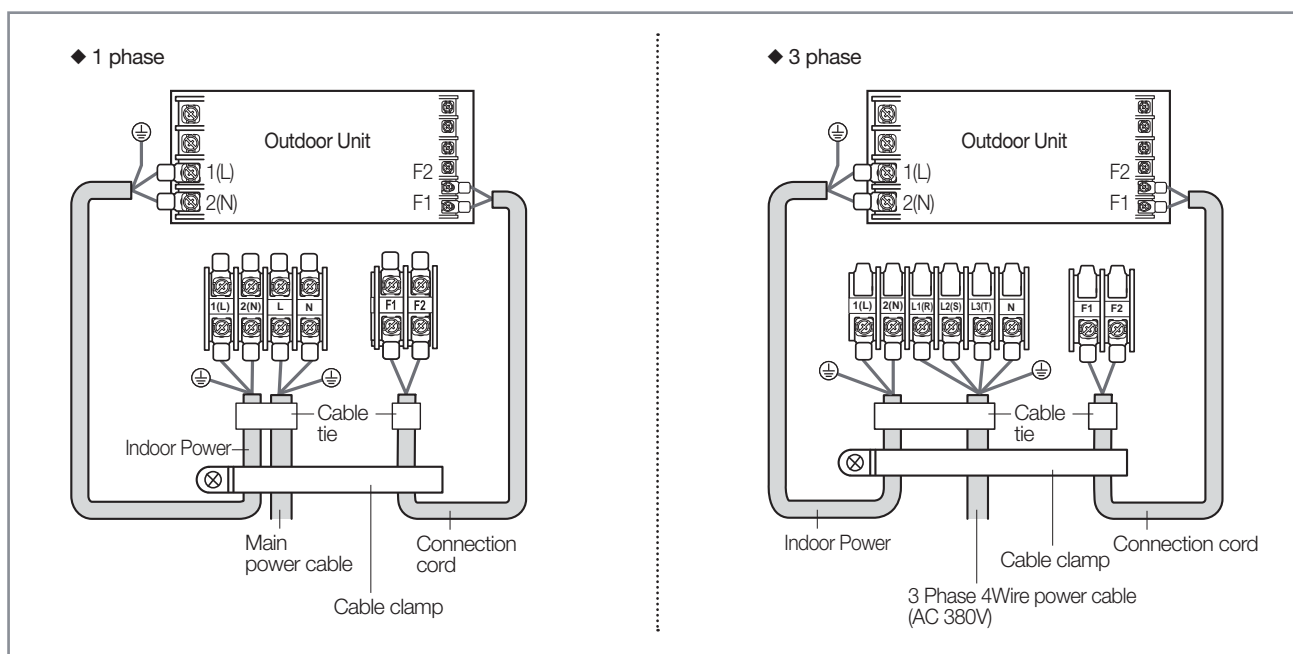
3-2. Wiring diagram of power cable



⚠ 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



✓ Note

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



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

4 Refrigerant piping works

4-1. Piping specifications

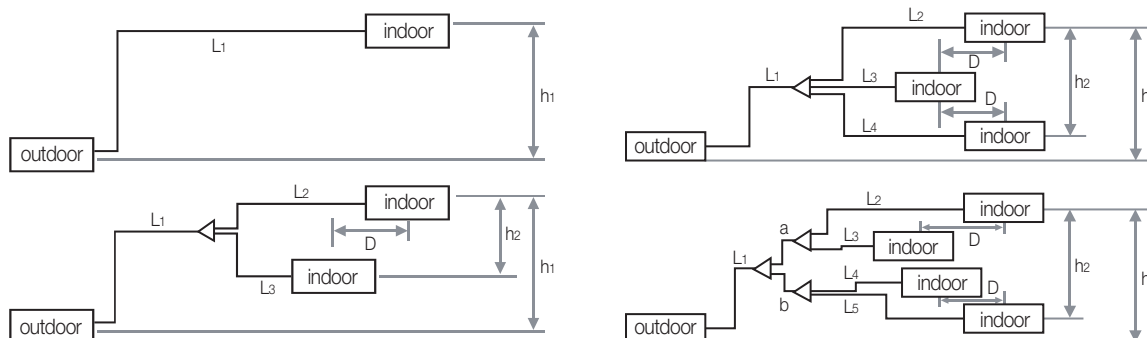
Product Type	Model		Refrigerant Piping Works						
			Pipe Size (mm/inch)		Installation Limitation (m)		Refrigerant	Additional Refrigerant	
	Indoor Unit	Outdoor Unit	Liquid	Gas	Max. Length	Max. Height	Factory Charging (g)	Chargeless (m)	Additional Ref. Amount (g/m)
Slim 1way Cassette	AC026FB1DEH/EU	AC026FCADEH/EU	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)
		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)
	NS1254PXE	RC125PHXEA	9.52 (3/8)	15.88 (5/8)	75	30	3,400	30	*1)
		RC125PHXGA	9.52 (3/8)	15.88 (5/8)	75	30	3,400	30	*1)
	NS1404DXEA	RC140DHXEB	9.52 (3/8)	15.88 (5/8)	75	30	3,400	30	*1)
		RC140DHXGA	9.52 (3/8)	15.88 (5/8)	75	30	3,400	30	*1)
	NS1404PXE	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
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 AC100FCAP*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 ($L_1 + \dots + L_n + 1 + a + b$)	-	-	-	-	-	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 (h_1)	15 m	25 m	30 m	±30 m	±30 m	±30 m	±30 m
Max. height difference among indoor units (h_2)	-	-	-	-	-	±0.5m	±0.5m
Max Pipe length difference among indoor units after branch [$L_2 - L_3$ or $L_2 - L_4$ or $L_2 - L_5$ or $a - b$ or $(a + L_2) - (b + L_4)$ or $(a + L_3) - (b + L_5)$]	-	-	-	-	-	±5m	±5m

4 Refrigerant piping works

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.

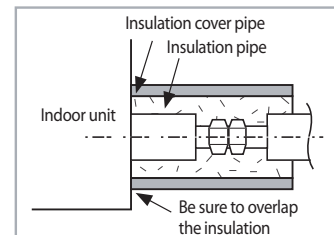
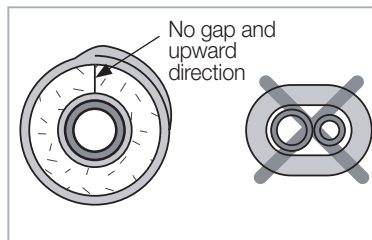
Pipe	Pipe size	Insulation Type (Heating/Cooling)		Remarks
		Standard [30°C, less than 85%]	High humidity [30°C, over 85%]	
		EPDM, NBR		
Liquid pipe	Ø6.35 ~ Ø9.52	9t	9t	Internal temperature is higher than 120°C
	Ø12.7 ~ Ø19.05	13t	13t	
Gas pipe	Ø6.35	13t	19t	
	Ø9.52	19t	25t	
	Ø12.70			
	Ø15.88			
	Ø19.05			

✓ 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.

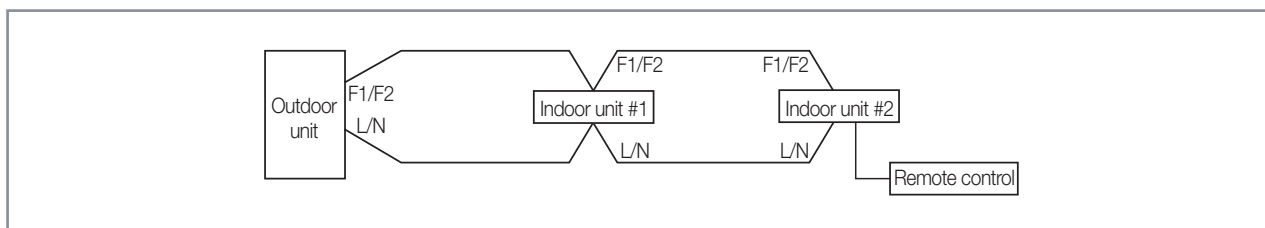
4-4. DPM Installation

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

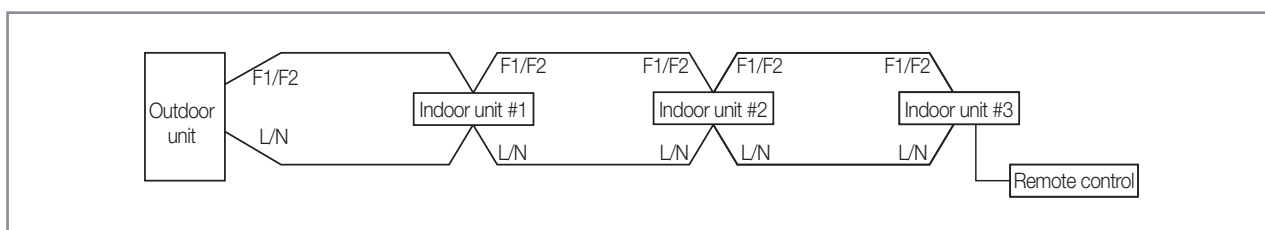
- Two indoor units should be installed in one area which is not divided by a wall.
- The distance between two indoor units should be within a straight-line of 10m.
- After branching, the distance between the piping connected to the two indoor units should be within 1m.
- The height difference between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

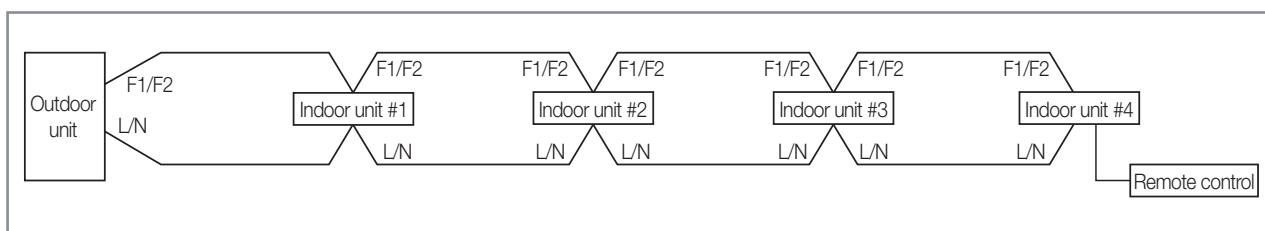
🔧 In case of 2 indoor units connection



🔧 In case of 3 indoor units connection



🔧 In case of 4 indoor units connection



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

4 Refrigerant piping works

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.



- 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 responsibility 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.

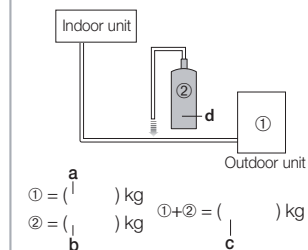
Note

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

Refrigerant type	GWP value
R410A	1975

* GWP=Global Warming Potential

Contains fluorinated greenhouse gases covered by the Kyoto Protocol.



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/RC100ZHXA/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
AC071FCAD*H/ 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	$L_1+\dots+L_{n+1} \leq 50 \text{ m}$	$(L_1+a+b-5) \times 40[g] + (L_2+\dots+L_{n+1}) \times 30[g]$ If $(L_1+a+b) < 5\text{m}$, $(L_2+\dots+L_{n+1}) \times 30[g]$
AC100FCAP*H/ RC100PHX*A/ RC125DHXEB/ RC125DHXGA/ RC125PHX*A/ RC140DHXEB/ RC140DHXGA/ RC140PHX*A	Ø 9.52	$L_1+\dots+L_{n+1} \leq 75\text{m}$	$(L_1+a+b-5) \times 40[g] + (L_2+\dots+L_{n+1}) \times 30[g]$ If $(L_1+a+b) < 5\text{m}$, $(L_2+\dots+L_{n+1}) \times 30[g]$

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

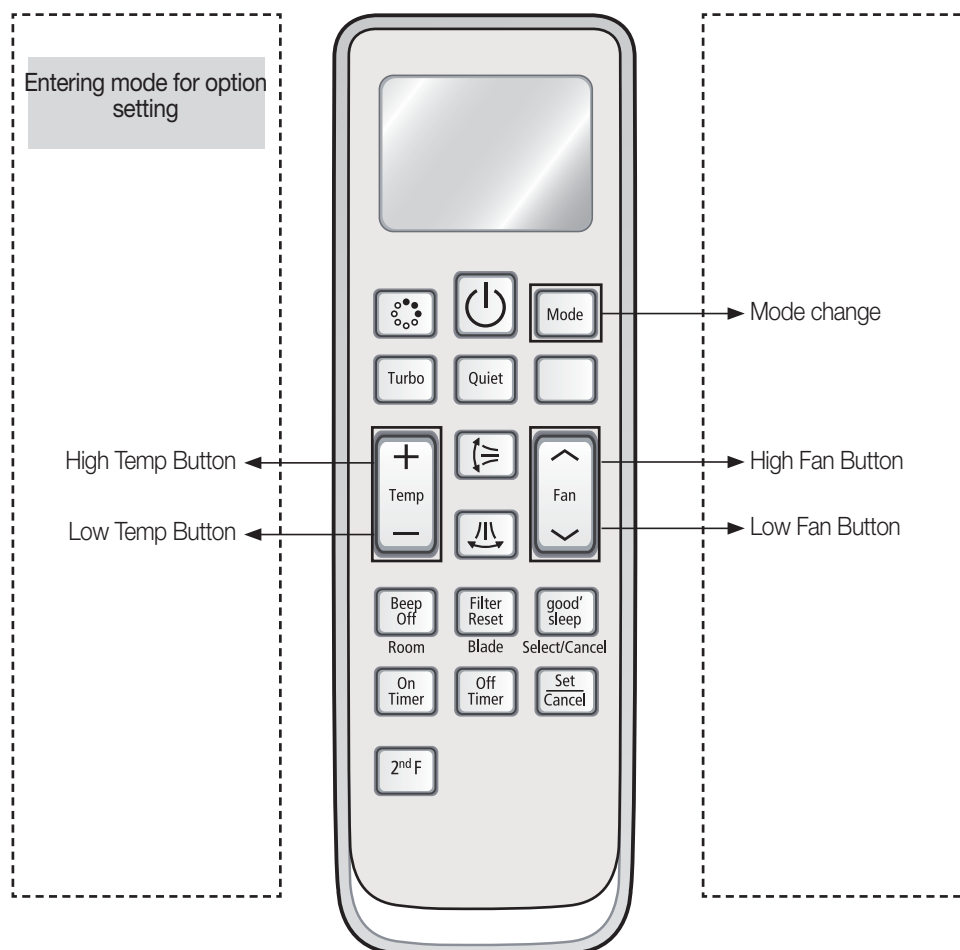
- You should install the DPM models according to the proper installation specification and eliminate the factors that give electrical load to the both indoor units when installing and operating.
(Heater/Window/Front door/Ventilation/Partition that divides space)
- You should provide sufficient instructions 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.

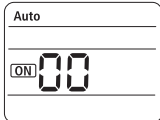
Set the each option separately since you cannot set the ADDRESS setting and indoor unit installation setting option at the same time. You need to set twice when setting indoor unit address and installation option.

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

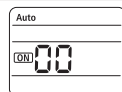
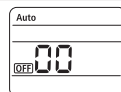
After entering the option setting status, select the option as listed below.

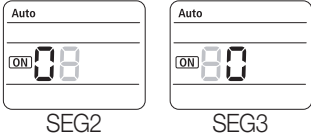
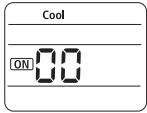
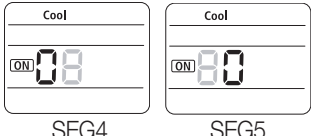
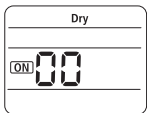
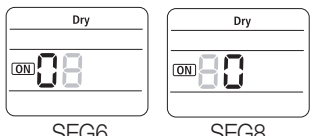
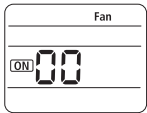
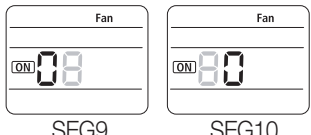
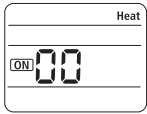
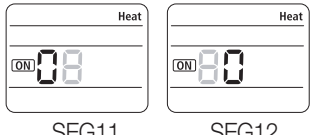
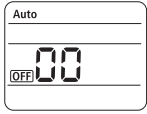
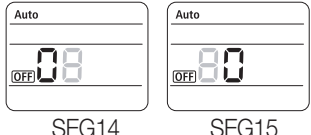


Option setting is available from SEG1 to SEG 24

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

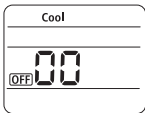
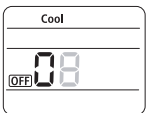
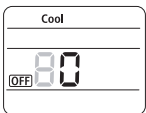
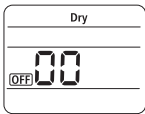
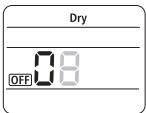
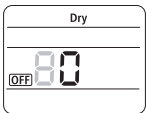
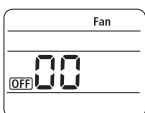
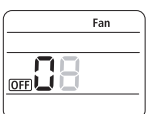
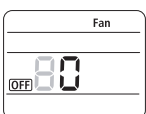
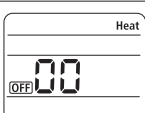
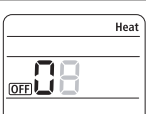
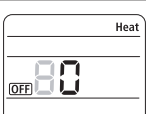
SEG1	SEG2	SEG3	SEG4	SEG5	SEG6	SEG7	SEG8	SEG9	SEG10	SEG11	SEG12
0	X	X	X	X	X	1	X	X	X	X	X
SEG13	SEG14	SEG15	SEG16	SEG17	SEG18	SEG19	SEG20	SEG21	SEG22	SEG23	SEG24
2	X	X	X	X	X	3	X	X	X	X	X

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

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

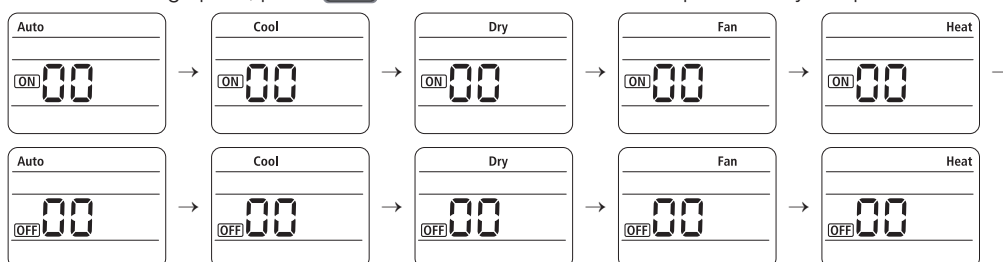
5 Setting an indoor unit address & installation option

5-1. The procedure of option setting

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

Step 3. Check the option you have set

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



Step 4. Input option

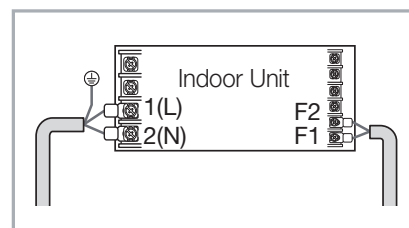
Press operation button  with the direction of remote control for set.
 For the correct option setting, you must input the option twice.

Step 5. Check operation

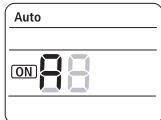
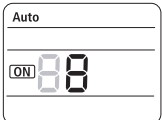
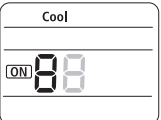
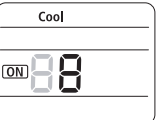
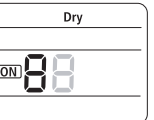
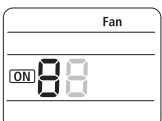
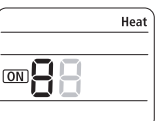
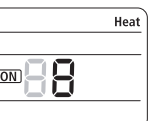
- Reset the indoor unit by pressing the RESET button of indoor unit or outdoor unit.
- Take the batteries out of the remote controller and insert them again and then press the operation button.

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												
Indication and Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details
	0		A	0	No Main address	0~9	100-digit	0~9	10-digit	0~9	A unit digit	
				1	Main address setting mode							
Option	SEG7		SEG8		SEG9		SEG10		SEG11		SEG12	
Explanation	PAGE				Setting RMC address				Group channel(*16)		Group address	
Remote Controller Display												
Indication and Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details
	1				0	No RMC address			RMC1	0~2	RMC2	0~F
					1	RMC address setting mode						

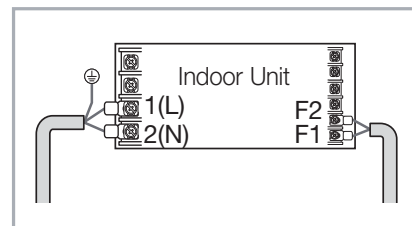


CAUTION

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

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.



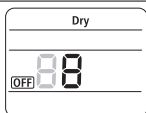
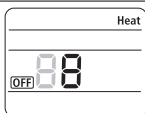
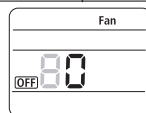
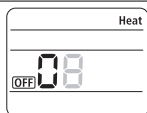
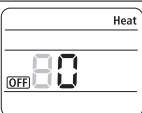
SEG1	SEG2	SEG3	SEG4	SEG5	SEG6
0	2	RESERVED	Exterior temperature sensor	Central control	FAN RPM compensation
SEG7	SEG8	SEG9	SEG10	SEG11	SEG12
1	Drain pump	Hot water heater	Electronic heater	Opening the electronic expansion valve	Master / Slave
SEG13	SEG14	SEG15	SEG16	SEG17	SEG18
2	External control	External 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 except for 2 or 6.
- ▶ MINI 4WAY MODEL : Motion detect sensor(SEG23) will be set.
- ▶ If you input a number other than 0~4 of the individual control of the indoor unit(SEG20), the indoor is set as "indoor 1".

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

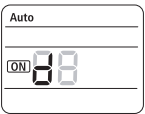
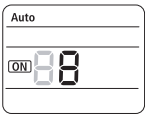
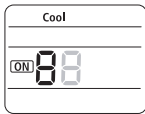
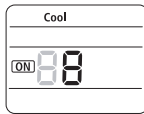
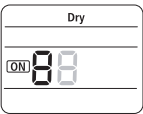
Option	SEG1		SEG2		SEG3		SEG4		SEG5		SEG6	
Explanation	PAGE		MODE		RESERVED		Use of external temperature sensor		Use of central control		RPM setting compensation	
Remote Controller Display												
Indication and Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	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	OFF Control					2	Mixed operation control2/Use buzzer		
									3	Mixed operation control2/ Disuse of buzzer		

5 Setting an indoor unit address & installation option

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

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 communication 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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