



VRF

Technical Data Book

DVM S Indoor Unit

SAMSUNG

History

Version	Modification	Date	Remark
Ver.1.3	Release DVM S Indoor TDB (Euro)	14.10.10	
Ver.1.4	1. Modified the option code for MSP Duct : 128 / 140 Model	15.02.10	
Ver.1.5	1. Modified the option code for Duct Type ID : Slim(140) / MSP(036) / HSP(112/128/140)	15.02.11	
Ver.1.6	1. Modified the Sound Pressure & Added the Sound Power Data : 4Way CST Models	15.03.27	
Ver.1.7	1. Modified the Sound Pressure : Slim Duct Models 2. Deleted the Products : 1Way CST, 4Way CST(600x600), Neo Forte	15.04.13	
Ver.1.8	Add Note information in Specification regarding EU F-Gas regulation.	15.06.17	

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I. Products

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1 Nomenclature

1-1. Nomenclature

Model name								
AM	045	F	N	4	D	E	H	/ EU
①	②	③	④	⑤	⑥	⑦	⑧	(Buyer)

① Classification

AM	DVM
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② Capacity

x 1/10 HP (3 digits)

③ Version

E	2012
F	2013
H	2014

④ Product Type

X	Outdoor Unit
N	Indoor Unit

⑤ Product Notation

1	1 way cassette
2	2 way cassette
N	4 way cassette (600 x 600)
4	4 way cassette
L	LSP Duct (Slim Duct)
M	MSP Duct
H	HSP Duct
C	Ceiling
J	Console
F	Floor Standing
T	NEO FORTE
Q	NEO FORTE (EEV)
B	HYDRO UNIT (Floor Standing)
K	FLAT(CEILING TYPE) VTL

⑥ Feature

D	DELUXE
F	FLAGSHIP
G (EHS)	CASCADE (EEV)

⑦ Rating Voltage

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

⑧ Mode

H	Heat Pump (R410A)
R	Heat Recovery (R410A)
B	Heat Pump (R134a)

2 Line-up

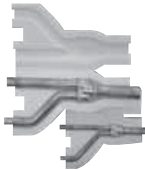
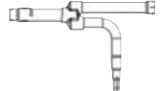
Capacity Type	1.7kW	2.2kW	2.8kW	3.6kW	4.5kW	5.6kW	6.0kW	7.1kW	9.0kW	11.2kW	12.8kW	14.0kW	22.0kW	28.0kW
Slim 1 way cassette														
2 way cassette														
4 way cassette (S)														
4 way cassette (600 x 600)														
Slim duct														
MSP duct														
HSP duct														
Console														
Ceiling														
Neo Forte														
Neo Forte (E)														
Floor Stand- ing														

Type	Air Flow Rate	250CMH	350CMH	500CMH	800CMH	1000CMH
ERV PLUS						

Type	Capacity	16.0kW	25.0kW	32.0kW	50.0kW
Hydro Unit HE					
Hydro Unit HT					

3 Accessory

Classification		Product	Model	Image	Application model
Integrated management system	Controller	DMS 2	MIM-D00AN		DVM S
		S-NET 3	MST-P3P		DVM S
	Interface Module	PIM	MIM-B16N		DVM S ('13.07~)
Centralized control system	Controller	Centralized controller	MCM-A202DN		DVM S
		Operation mode selection switch	MCM-C200		DVM S
		New touch CONTROLLER	MCM-A300N		DVM S
Individual control system Controller	Controller	Wireless remote controller	MR-DH00		Cassette, Duct(Receiver needed)
		Wired remote controller (Multi function)	MWR-WE10N		Cassette, Wall-mounted, Ceiling, Duct, Console, ERV
		Wired remote controller	MWR-WW00N		Hydro Unit
		Wireless signal receiver	MRK-A10N		Duct (For wireless remote controller)
		Remote sensor	MRW-TA		Cassette, Wall-mounted, Ceiling, Duct, Console
		ERV CO ₂ Sensor	MOS-C1		ERV, ERV PLUS
Building management system		Lonworks interface module	MIM-B18N		DVM S
		DMS-Bnet (BACnet)	MIM-B17N		DVM S
Guest room management system		External contact interface module	MIM-B14		DVM S
Converter		S-Net Pro	MIM-C02N		DVM S
		Communication	MIM-N00		DVM S (Nasa-No Nasa)
Multi Tenant Function Controller			MCM-C210		DVM S

Classification	Feature	Model	Description	Relevant unit	Remark
Y-JOINT		MXJ-YA1509M	15.0 kW and below	DVM S HP / HR	Requisite
		MXJ-YA2512M	Over 15.0 ~ 40 kW and below		
		MXJ-YA2812M	Over 40 ~ 45 kW and below		
		MXJ-YA2815M	Over 45 ~ 67.2 kW and below		
		MXJ-YA3419M	Over 67.2 ~ 95.2 kW and below		
		MXJ-YA4119M	Over 95.2 ~ 135.2 kW and below		
		MXJ-YA4422M	Over 135.2 kW		
Y-joint(High Pressure Gas) for DVM S HR		MXJ-YA1500M	22.4 kW and below	DVM S HR	Requisite
		MXJ-YA2500M	Over 22.4 ~ 67.2 kW and below		
		MXJ-YA3100M	Over 67.2 ~ 135.2 kW and below		
		MXJ-YA3800M	Over 135.2 kW		
Outdoor joint (Outdoor Connection)		MXJ-TA3819M	Below 135.2 kW	DVM S HP / HR	Requisite
		MXJ-TA4422M	Over 140.2 kW		
Outdoor joint (High Pressure Gas) for DVM S HR		MXJ-TA3100M	Below 135.2 kW	DVM S HR	Requisite
		MXJ-TA3800M	Over 140.2 kW		
Header joint		MXJ-HA2512M	Below 45 kW	DVM S HP / HR	Requisite
		MXJ-HA3115M	Below 67.2 kW		
		MXJ-HA3819M	Over 67.2 kW		
EEV kits		MXD-E24K132A	2 Indoor	Apply to products without EEV (Wall mount & Ceiling)	Option
		MXD-E24K200A			
		MXD-E32K200A			
		MXD-E24K232A	3 Indoor		
		MXD-E24K300A			
		MXD-E32K224A			
		MXD-E32K300A			
		MEV-E24SA	1 Indoor		
MEV-E32SA					
Drain Pump		MDP-N047SNC1D	HSP Duct 22.0/28.0kW	-	Option
		MDP-M075SGU1D	MSP Duct (9.0/11.2) kW	-	
		MDP-M075SGU2D	MSP Duct (12.8/14.0) kW		
		MDP-M075SGU3D	MSP Duct (5.6/7.1) kW		
		MDP-E075SEE3D	SlimDuct (1.7~14.0)kW	-	
MCU		MCU-S4NEE1N	Below 4 indoor units	DVM S HR	Requisite (HR Only)
		MCU-S6NEE1N	Below 6 indoor units		
		MCU-S4NEE2N	Below 2 large capacity ducts		
AHU KIT		MXD-K025AN	7.0kW~8.75kW	-	Option
		MXD-K050AN	14.0kW~17.5kW		
		MXD-K075AN	21.0kW~26.25kW		
		MXD-K100AN	28.0kW~35.0kW		

3 Accessory

Classification	Feature	Model	Description	Relevant unit	Remark
PDM KIT		MXD-A38K2A	8~12HP	DVM S	Option
		MXD-A12K2A	14~16HP		
		MXD-A58K2A	18~22HP		
Humidifier		MVO-VA050100	500CMH	-	Option
		MVO-VA100100	1000CMH		
S-Plasma Ion KIT		MSD-CAN1	4way Cassette	-	Option
		MSD-EAN1	ERV-Plus		
Motion detect sensor		MCR-SMA	4 way cassette (600 x 600)	-	Option
Front panel		PC1NUSMAN	Slim 1way cassette	-	Requisite
		PC1NUPMAN	Slim 1way cassette (Z-slide)		
		PC2NUSMEN	2 way cassette		
		PC4SUSMAN	4 way cassette (600 x 600) (Waffle)		
		PC4SUSMBN	4 way cassette (600 x 600) (Classic)		
		PC4NUSKAN	4 way cassette (Waffle)		
		PC4NUSKEN	4 way cassette (Classic)		
		PC4NBSKAN	4 way cassette (Waffle, Black)		

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1 2 way cassette

(AM***FN2DEH***)

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1 2 way cassette

1-1. Specifications

1) Technical specifications

Model				AM056FN2DEH***	AM071FN2DEH***
Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50
Mode*1)			-	HP/HR	HP/HR
Performance	Capacity (Nominal)	Cooling*2)	kW	5.6	7.1
			Btu/h	19,100	24,200
		Heating*3)	kW	6.3	8.0
			Btu/h	21,500	27,300
Power	Power Input (Nominal)	Cooling*2)	W	70	75
		Heating*3)		70	75
	Current Input (Nominal)	Cooling*2)	A	0.38	0.40
		Heating*3)		0.38	0.40
Fan	Motor	Type	-	Crossflow Fan	Crossflow Fan
		Output	W	14	14
		Number of unit	EA	2	2
	Air Flow Rate	H/M/L (UL)	CMM	14 / 13 / 12	15 / 14 / 13
			l/s	233.33/216.67/200.00	250.00/233.33/216.67
	External Pressure	Min / Std / Max	mmAq	-	-
			Pa	-	-
			WG	-	-
Option Code			-	012044-115561-203838-330010	012044-115582-204747-330010
Piping Connections	Liquid Pipe		Ø, mm	6.35	9.52
			Ø, inch	1/4	3/8
	Gas Pipe		Ø, mm	12.70	15.88
			Ø, inch	1/2	5/8
	Drain Pipe		Ø, mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
Field Wiring	Power Source Wire	Below 20m / over 20m	mm ²	1.5 / 2.5	1.5 / 2.5
	Transmission Cable		mm ²	0.75~1.5	0.75~1.5
Refrigerant	Type		-	R410A	R410A
	Control Method		-	EEV INCLUDED	EEV INCLUDED
Sound	Sound Pressure	High / Mid / Low*4)	dBA	38 / 37 / 35	41 / 39 / 37
Dimensions	Net Weight		kg	21.00	22.00
	Shipping Weight		kg	25.00	26.00
	Net Dimensions (W×H×D)		mm	890 x 230 x 575	890 x 230 x 575
	Shipping Dimensions (W×H×D)		mm	1,077 x 299 x 642	1,077 x 299 x 642
Panel Size	Panel model		-	PC2NUSMEN	PC2NUSMEN
	Panel Net Weight		kg	4.00	4.00
	Shipping Weight		kg	8.00	8.00
	Net Dimensions (W×H×D)		mm	1030 x 25 x 650	1030 x 25 x 650
	Shipping Dimensions (W×H×D)		mm	1103 x 151 x 727	1103 x 151 x 727
Additional Accessories	Drain pump	Drain pump	- / Model	Built-in	Built-in
		Max. lifting Height / Displacement	mm/liter/h	750 / 24	750 / 24
	Air Filter		-	Long life filter	Long life filter

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

*1) Mode

- HP : Heat Pump, HR : Heat Recovery

*2) Nominal cooling capacities are based on;

- Indoor temperature : 27°C DB, 19°C WB

- Outdoor temperature : 35°C DB, 24°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

*3) Nominal heating capacities are based on;

- Indoor temperature : 20°C DB, 15°C WB

- Outdoor temperature : 7°C DB, 6°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

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

*5) These products contain R410A which is fluorinated greenhouse gas.

1-2. Capacity tables

1) Cooling

TC : Total Capacity(kW), SHC : Sensible Heat Capacity(kW)

Model	Outdoor temperature (°C, DB)	Indoor temperature (°C, WB)													
		20 (°C, DB)		23 (°C, DB)		26 (°C, DB)		27 (°C, DB)		28 (°C, DB)		30 (°C, DB)		32 (°C, DB)	
		14 (°C, WB)		16 (°C, WB)		18 (°C, WB)		19 (°C, WB)		20 (°C, WB)		22 (°C, WB)		24 (°C, WB)	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
056	10	3.9	3.1	4.6	3.4	5.3	3.8	5.6	3.8	5.8	3.8	6.3	3.8	6.7	3.7
	12	3.9	3.1	4.6	3.4	5.3	3.8	5.6	3.8	5.8	3.8	6.3	3.8	6.7	3.7
	14	3.9	3.1	4.6	3.4	5.3	3.8	5.6	3.8	5.8	3.8	6.2	3.8	6.7	3.7
	16	3.9	3.1	4.6	3.4	5.3	3.8	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.6
	18	3.9	3.1	4.6	3.4	5.3	3.8	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.6
	20	3.9	3.1	4.6	3.4	5.3	3.8	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.6
	21	3.9	3.1	4.6	3.4	5.3	3.8	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.6
	23	3.9	3.1	4.6	3.4	5.3	3.8	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.6
	25	3.9	3.1	4.6	3.4	5.3	3.8	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.6
	27	3.9	3.1	4.6	3.4	5.3	3.8	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.6
	29	3.9	3.1	4.6	3.4	5.3	3.8	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.6
	31	3.9	3.1	4.6	3.4	5.3	3.8	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.6
	33	3.9	3.1	4.6	3.4	5.3	3.8	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.6
	35	3.9	3.1	4.6	3.4	5.3	3.8	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.6
	37	3.9	3.1	4.6	3.4	5.3	3.8	5.6	3.8	5.8	3.8	6.1	3.7	6.5	3.5
	39	3.9	3.1	4.6	3.4	5.3	3.8	5.6	3.8	5.8	3.8	6.1	3.7	6.4	3.4
071	10	4.9	4.0	5.8	4.4	6.7	4.9	7.1	5.1	7.4	5.0	8.0	5.1	8.5	4.8
	12	4.9	4.0	5.8	4.4	6.7	4.9	7.1	5.1	7.4	5.0	7.9	5.0	8.5	4.8
	14	4.9	4.0	5.8	4.4	6.7	4.9	7.1	5.1	7.4	5.0	7.9	5.0	8.5	4.8
	16	4.9	4.0	5.8	4.4	6.7	4.9	7.1	5.1	7.4	5.0	7.9	5.0	8.4	4.7
	18	4.9	4.0	5.8	4.4	6.7	4.9	7.1	5.1	7.4	5.0	7.9	5.0	8.4	4.7
	20	4.9	4.0	5.8	4.4	6.7	4.9	7.1	5.1	7.4	5.0	7.9	5.0	8.4	4.7
	21	4.9	4.0	5.8	4.4	6.7	4.9	7.1	5.1	7.4	5.0	7.9	5.0	8.4	4.7
	23	4.9	4.0	5.8	4.4	6.7	4.9	7.1	5.1	7.4	5.0	7.9	5.0	8.4	4.7
	25	4.9	4.0	5.8	4.4	6.7	4.9	7.1	5.1	7.4	5.0	7.9	5.0	8.4	4.7
	27	4.9	4.0	5.8	4.4	6.7	4.9	7.1	5.1	7.4	5.0	7.9	5.0	8.4	4.7
	29	4.9	4.0	5.8	4.4	6.7	4.9	7.1	5.1	7.4	5.0	7.9	5.0	8.4	4.7
	31	4.9	4.0	5.8	4.4	6.7	4.9	7.1	5.1	7.4	5.0	7.9	5.0	8.4	4.7
	33	4.9	4.0	5.8	4.4	6.7	4.9	7.1	5.1	7.4	5.0	7.9	5.0	8.4	4.7
	35	4.9	4.0	5.8	4.4	6.7	4.9	7.1	5.1	7.4	5.0	7.9	5.0	8.4	4.7
	37	4.9	4.0	5.8	4.4	6.7	4.9	7.1	5.1	7.3	4.9	7.8	4.9	8.2	4.6
	39	4.9	4.0	5.8	4.4	6.7	4.9	7.1	5.1	7.3	4.9	7.7	4.8	8.1	4.5

2) Heating

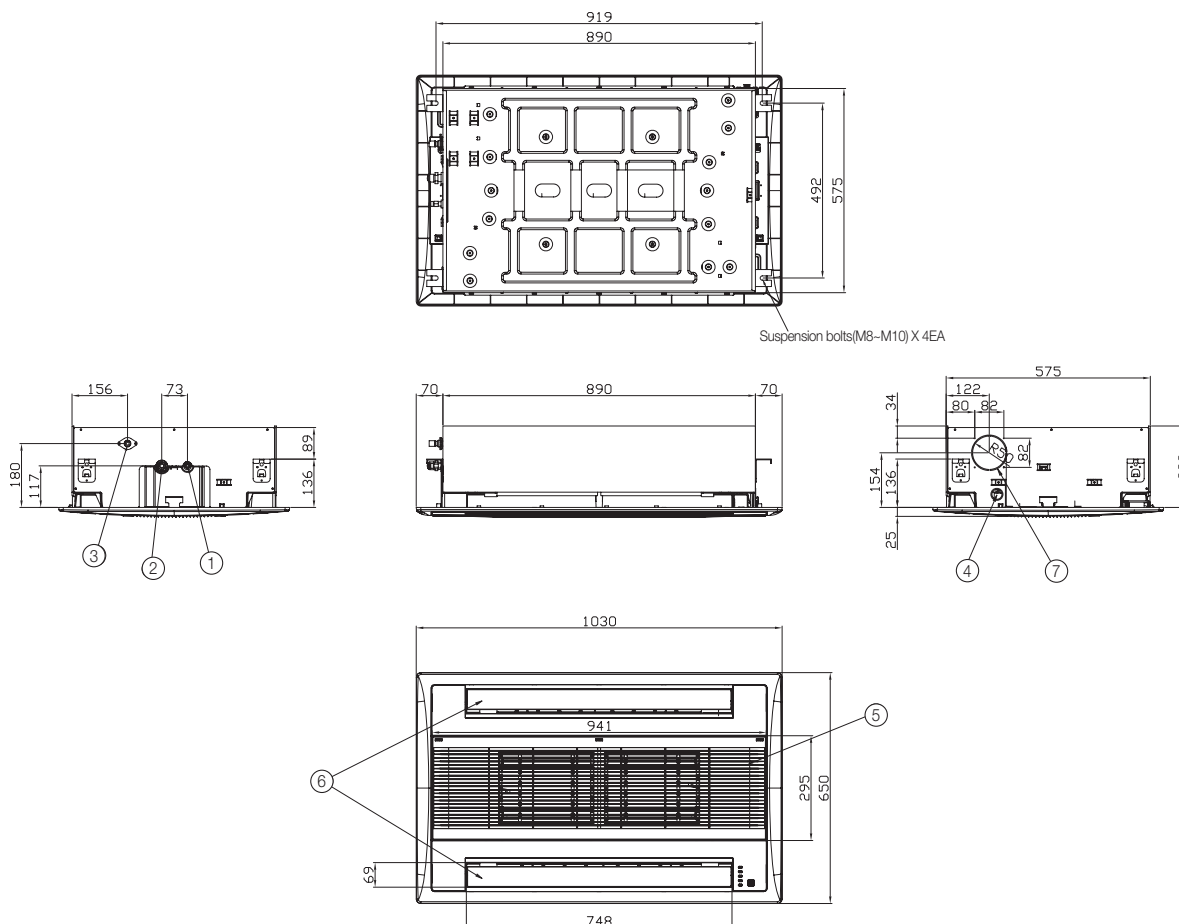
TC : Total Capacity(kW)

Model	Outdoor temperature (°C)		Indoor temperature (°C, DB)				
			16.0	18.0	20.0	22.0	24.0
	DB	WB	TC kW	TC kW	TC kW	TC kW	TC kW
056	-20	-21	3.9	3.8	3.8	3.7	3.7
	-17	-18	4.0	4.0	3.9	3.8	3.8
	-15	-16	4.2	4.1	4.0	3.9	3.8
	-12	-13	4.4	4.3	4.2	4.2	4.1
	-10	-11	4.6	4.6	4.5	4.4	4.4
	-7	-8	4.9	4.8	4.8	4.7	4.5
	-5	-6	5.2	5.1	5.0	4.9	4.7
	-3	-4	5.4	5.3	5.3	5.1	4.9
	0	-1	5.7	5.6	5.5	5.3	5.0
	3	2.2	5.9	5.9	5.8	5.6	5.3
	5	4.1	6.2	6.1	6.0	5.7	5.3
	7	6	6.5	6.4	6.3	5.8	5.3
	9	7.9	6.7	6.5	6.3	5.8	5.3
	11	9.8	6.9	6.6	6.3	5.8	5.3
	13	12	7.1	6.7	6.3	5.8	5.3
	15	14	7.3	6.8	6.3	5.8	5.3
071	-20	-21	4.9	4.9	4.8	4.7	4.7
	-17	-18	5.1	5.0	4.9	4.8	4.8
	-15	-16	5.3	5.2	5.1	4.9	4.8
	-12	-13	5.6	5.5	5.4	5.3	5.2
	-10	-11	5.9	5.8	5.7	5.6	5.6
	-7	-8	6.2	6.1	6.0	5.9	5.8
	-5	-6	6.5	6.5	6.4	6.2	6.0
	-3	-4	6.9	6.8	6.7	6.4	6.2
	0	-1	7.2	7.1	7.0	6.7	6.4
	3	2.2	7.6	7.5	7.3	7.1	6.8
	5	4.1	7.9	7.8	7.7	7.2	6.8
	7	6	8.2	8.1	8.0	7.4	6.8
	9	7.9	8.5	8.2	8.0	7.4	6.8
	11	9.8	8.7	8.4	8.0	7.4	6.8
	13	12	9.0	8.5	8.0	7.4	6.8
	15	14	9.2	8.6	8.0	7.4	6.8

1 2 way cassette

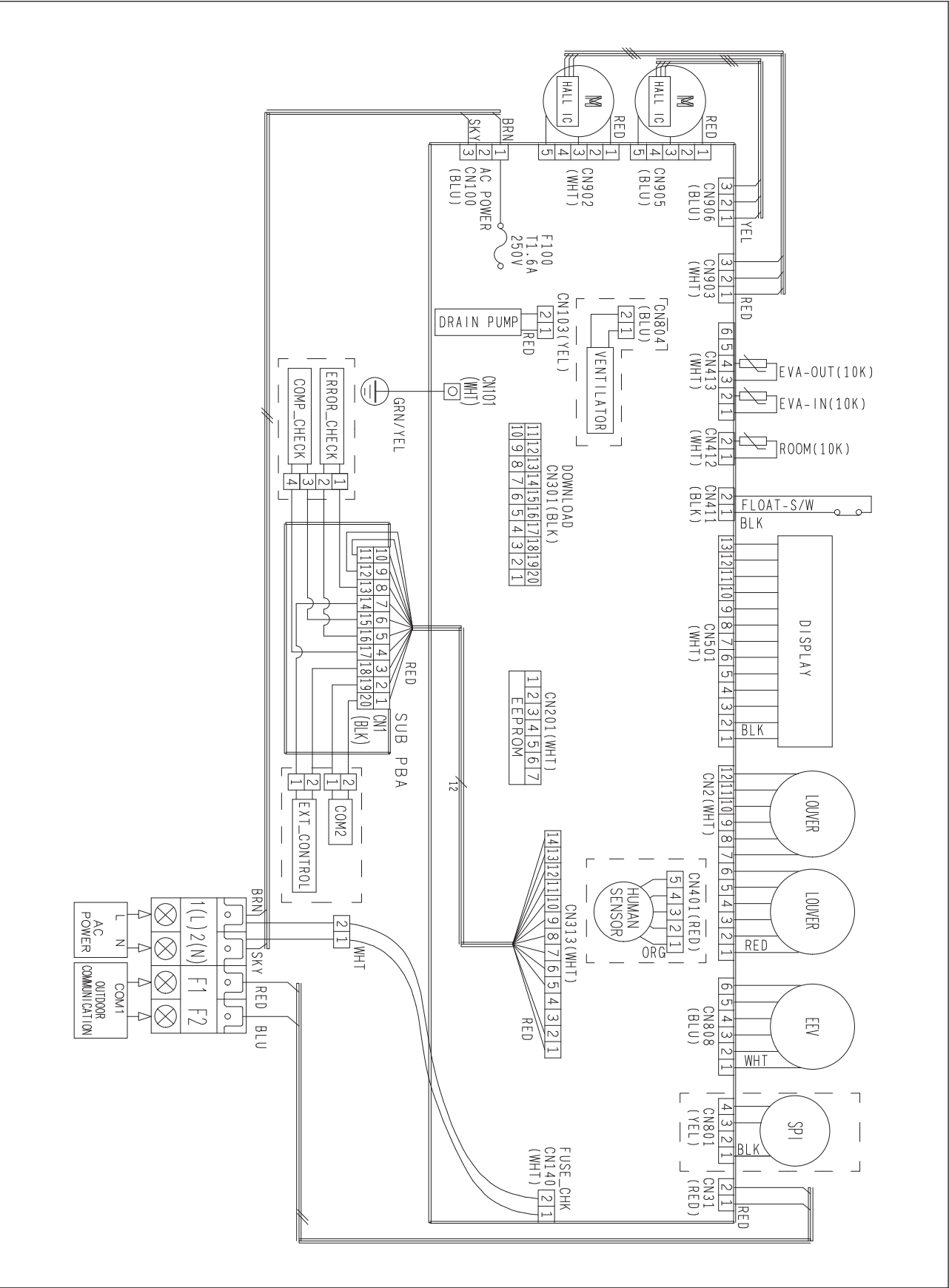
1-3. Dimensional drawing

Unit:mm



No.	Name	Description	
		5.6kW	7.1kW
①	Liquid pipe connection	Ø6.35 Flare	Ø9.52 Flare
②	Gas pipe connection	Ø12.70 Flare	Ø15.88 Flare
③	Drain pipe connection	VP25 (OD 32, ID 25)	
④	Conduit for power supply & communication wiring	-	-
⑤	Air inlet grille	-	-
⑥	Air outlet louver	-	-
⑦	Fresh air intake	-	-

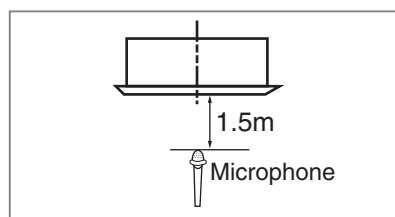
1-4. Electrical wiring diagram



2 way cassette

1-5. Sound pressure level

1) Operation sound level



Unit : dB(A)

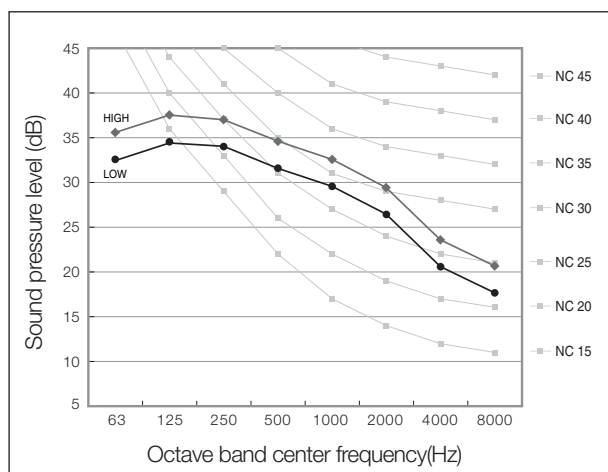
Model	High	Low
AM056FN2DEH***	38	35
AM071FN2DEH***	41	37

✓ Note

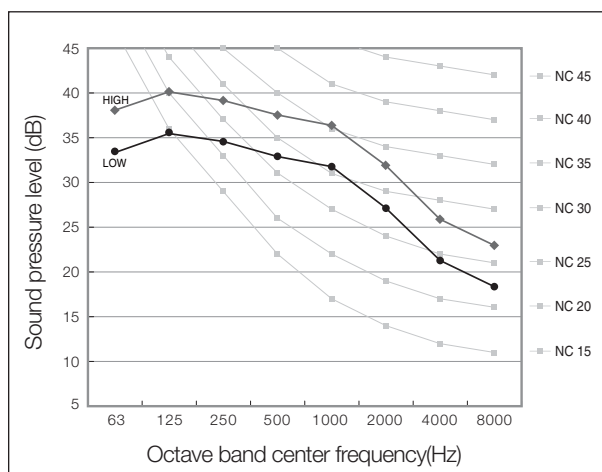
- ◆ These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- ◆ Operation sound level may differ depending on operation and ambient conditions.

2) NC curves

(1) AM056FN2DEH***



(2) AM071FN2DEH***

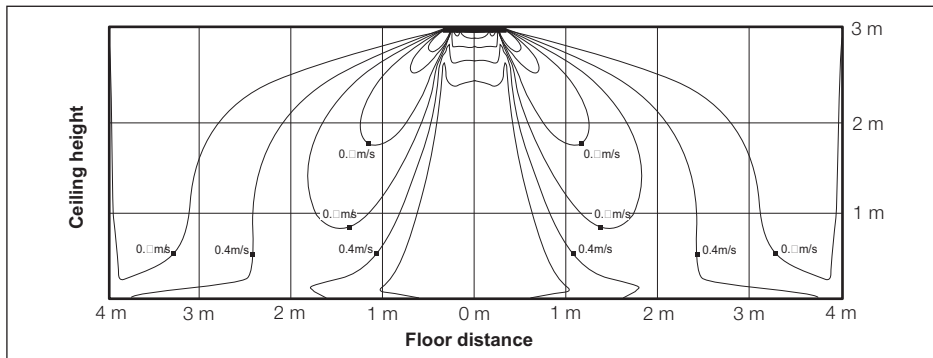


1-6. Temperature and air flow distribution

1) AM071FN2DEH***

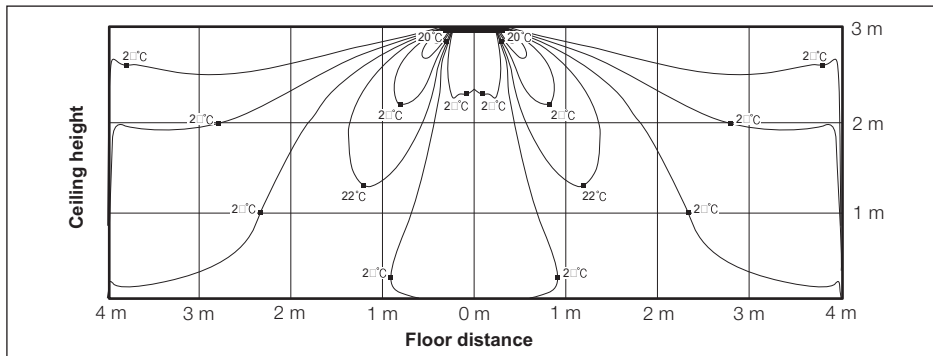
(1) Cooling air velocity distribution

◆ Discharge angle : 54°



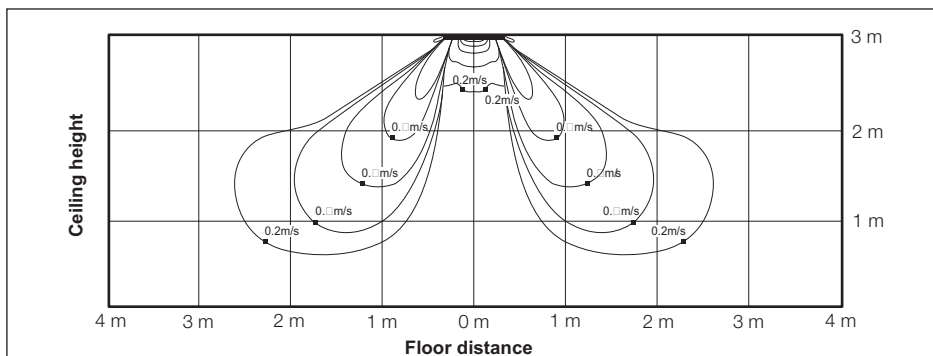
(2) Cooling temperature distribution

◆ Discharge angle : 54°



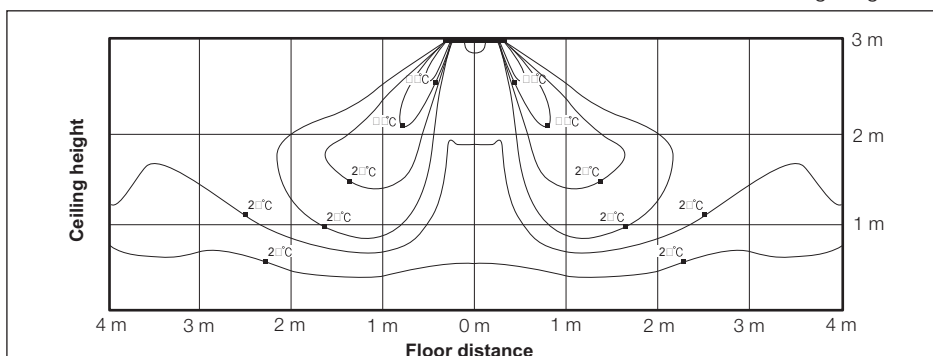
(3) Heating air velocity distribution

◆ Discharge angle : 54°



(4) Heating temperature distribution

◆ Discharge angle : 54°





2 4 way cassette S

(AM***FN4DEH***)

2-1. Specifications.....	
2-2. Capacity tables.....	
2-3. Dimensional drawing.....	
2-4. Electrical wiring diagram.....	
2-5. Sound pressure level.....	
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2 4 way cassette S

2-1. Specifications

1) Technical specifications

Type				4Way Cassette		4Way Cassette		4Way Cassette		4Way Cassette		
Model				AM045FN4DEH***		AM056FN4DEH***		AM071FN4DEH***		AM090FN4DEH***		
Power Supply				Ø, #, V, Hz		1,2,220-240,50		1,2,220-240,50		1,2,220-240,50		
Mode				-		HP/HR		HP/HR		HP/HR		
Performance	Capacity (Nominal)	Cooling	kW		4.50		5.60		7.10		9.00	
			Btu/h		15,400		19,100		24,200		30,700	
		Heating	kW		5.00		6.30		8.00		10.00	
			Btu/h		17,100		21,500		27,300		34,100	
Power	Power Input (Nominal)	Cooling	W	32.00		32.00		45.00		62.00		
		Heating		32.00		32.00		45.00		62.00		
	Current Input (Nominal)	Cooling	A	0.22		0.22		0.31		0.43		
		Heating		0.22		0.22		0.31		0.43		
Fan	Motor	Type	-	Turbo Fan		Turbo Fan		Turbo Fan		Turbo Fan		
		Output x n	w	1		1		1		1		
	Air Flow Rate	H/M/L (UL)	CMM	14.50 / 13.50 / 12.50		15.00 / 14.00 / 13.00		17.00 / 15.50 / 14.50		19.50 / 18.00 / 16.50		
			l/s	241.67 / 225.00 / 208.33		250.00 / 233.33 / 216.67		283.33 / 258.33 / 241.67		325.00 / 300.00 / 275.00		
	External Pressure	Min/Std/Max	mmAq	-		-		-		-		
			Pa	-		-		-		-		
Piping Connections	Liquid Pipe		Ø, mm	6.35		6.35		9.52		9.52		
			Ø, inch	1/4"		1/4"		3/8"		3/8"		
	Gas Pipe		Ø, mm	12.70		12.70		15.88		15.88		
			Ø, inch	1/2"		1/2"		5/8"		5/8"		
	Drain Pipe		Ø, mm	VP25 (OD 32,ID 25)		VP25 (OD 32,ID 25)		VP25 (OD 32,ID 25)		VP25 (OD 32,ID 25)		
Field Wiring	Power Source Wire		mm²	1.5 - 2.5		1.5 - 2.5		1.5 - 2.5		1.5 - 2.5		
	Transmission Cable		mm²	0.75 - 1.50		0.75 - 1.50		0.75 - 1.50		0.75 - 1.50		
Refrigerant	Type		-	R410A		R410A		R410A		R410A		
	Control Method		-	EEV INCLUDED		EEV INCLUDED		EEV INCLUDED		EEV INCLUDED		
Sound	Pressure	High / Mid / Low	dB(A)	33.0 / 32.0 / 30.0		33.0 / 32.0 / 30.0		35.0 / 34.0 / 33.0		39.0 / 36.0 / 33.0		
	Power	Cooling		49.0		50.0		54.0		57.0		
Dimension	Net Weight		kg	15.50		15.50		15.50		15.50		
	Shipping Weight		kg	19.50		19.50		19.50		19.50		
	Net Dimensions (WxHxD)		mm	840 x 204 x 840		840 x 204 x 840		840 x 204 x 840		840 x 204 x 840		
	Shipping Dimensions (WxHxD)		mm	898 x 275 x 898		898 x 275 x 898		898 x 275 x 898		898 x 275 x 898		
Panel Size	Panel model		-	PC4NUSKAN		PC4NUSKAN		PC4NUSKAN		PC4NUSKAN		
	Panel Net Weight		kg	5.80		5.80		5.80		5.80		
	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	1,005 x 100 x 1,005		1,005 x 100 x 1,005		1,005 x 100 x 1,005		1,005 x 100 x 1,005		
Additional Accessories	Drain Pump	Drain Pump	- / Model	-		-		-		-		
		Max. lifting Height / Displacement	mm/liter/h	-		-		-		-		
	Air Filter		-	-		-		-		-		

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

*1) Mode

-HP : Heat Pump, HR : Heat Recovery

*2) Nominal cooling capacities are based on:

-Indoor temperature: 27°C DB, 19°C WB

-Outdoor temperature: 35°C DB, 24°C WB, Equivalent refrigerant piping: 7.5m, Level differences 0m

*3) Nominal heating capacities are based on:

-Indoor temperature: 20°C DB, 15°C WB

-Outdoor temperature: 7°C DB, 6°C WB, Equivalent refrigerant piping: 7.5m, Level differences 0m

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

*5) These products contain R410A which is fluorinated greenhouse gas.

Type				4Way Cassette		4Way Cassette		4Way Cassette	
Model				AM112FN4DEH***		AM128FN4DEH***		AM140FN4DEH***	
Power Supply			Ø, #, V, Hz	1,2,220-240,50		1,2,220-240,50		1,2,220-240,50	
Mode			-	HP/HR		HP/HR		HP/HR	
Performance	Capacity (Nominal)	Cooling	kW	11.20		12.80		14.00	
			Btu/h	38,200		43,700		47,800	
		Heating	kW	12.50		13.80		16.00	
			Btu/h	42,700		47,100		54,600	
Power	Power Input (Nominal)	Cooling	W	78.00		73.00		89.00	
		Heating		78.00		73.00		89.00	
	Current Input (Nominal)	Cooling	A	0.55		0.51		0.62	
		Heating		0.55		0.51		0.62	
Fan	Motor	Type	-	Turbo Fan		Turbo Fan		Turbo Fan	
		Output x n	w	1		1		1	
	Air Flow Rate	H/M/L (UL)	CMM	26.00 / 24.00 / 22.00		28.00 / 26.00 / 23.00		30.00 / 28.00 / 26.00	
			l/s	433.33 / 400.00 / 366.67		466.67 / 433.33 / 383.33		500.00 / 466.67 / 433.33	
	External Pressure	Min/Std/Max	mmAq	-		-		-	
			Pa	-		-		-	
Piping Connections	Liquid Pipe		Ø, mm	9.52		9.52		9.52	
			Ø, inch	3/8"		3/8"		3/8"	
	Gas Pipe		Ø, mm	15.88		15.88		15.88	
			Ø, inch	5/8"		5/8"		5/8"	
	Drain Pipe		Ø, mm	VP25 (OD 32,ID 25)		VP25 (OD 32,ID 25)		VP25 (OD 32,ID 25)	
Field Wiring	Power Source Wire		mm²	1.5 - 2.5		1.5 - 2.5		1.5 - 2.5	
	Transmission Cable		mm²	0.75 - 1.50		0.75 - 1.50		0.75 - 1.50	
Refrigerant	Type		-	R410A		R410A		R410A	
	Control Method		-	EEV INCLUDED		EEV INCLUDED		EEV INCLUDED	
Sound	Pressure	High / Mid / Low	dB(A)	40.0 / 38.0 / 35.0		42.0 / 40.0 / 35.0		44.0 / 41.0 / 35.0	
	Power	Cooling		57.0		58.0		60.0	
Dimension	Net Weight		kg	17.00		19.00		19.00	
	Shipping Weight		kg	20.00		22.50		22.50	
	Net Dimensions (WxHxD)		mm	840 x 246 x 840		840 x 288 x 840		840 x 288 x 840	
	Shipping Dimensions (WxHxD)		mm	898 x 316 x 898		898 x 357 x 898		898 x 357 x 898	
Panel Size	Panel model		-	PC4NUSKAN		PC4NUSKAN		PC4NUSKAN	
	Panel Net Weight		kg	5.80		5.80		5.80	
	Shipping Weight		kg	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	
	Shipping Dimensions (WxHxD)		mm	1,005 x 100 x 1,005		1,005 x 100 x 1,005		1,005 x 100 x 1,005	
Additional Accessories	Drain Pump	Drain Pump	- / Model	-		-		-	
		Max. lifting Height / Displacement	mm/liter/h	-		-		-	
	Air Filter		-	-		-		-	

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

*1) Mode

-HP : Heat Pump, HR : Heat Recovery

*2) Nominal cooling capacities are based on:

-Indoor temperature: 27°C DB, 19°C WB

-Outdoor temperature: 35°C DB, 24°C WB, Equivalent refrigerant piping: 7.5m, Level differences 0m

*3) Nominal heating capacities are based on:

-Indoor temperature: 20°C DB, 15°C WB

-Outdoor temperature: 7°C DB, 6°C WB, Equivalent refrigerant piping: 7.5m, Level differences 0m

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

*5) These products contain R410A which is fluorinated greenhouse gas.

2-2. Capacity tables

1) Cooling

TC : Total Capacity(kW), SHC : Sensible Heat Capacity(kW)

Model	Outdoor temperature (°C, DB)	Indoor temperature (°C, WB)													
		20 (°C, DB) 14 (°C, WB)		23 (°C, DB) 16 (°C, WB)		26 (°C, DB) 18 (°C, WB)		27 (°C, DB) 19 (°C, WB)		28 (°C, DB) 20 (°C, WB)		30 (°C, DB) 22 (°C, WB)		32 (°C, DB) 24 (°C, WB)	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
045	10	3.1	2.7	3.7	2.8	4.2	3.0	4.5	3.1	4.7	3.1	5.0	3.1	5.4	2.9
	12	3.1	2.7	3.7	2.8	4.2	3.0	4.5	3.1	4.7	3.1	5.0	3.1	5.4	2.9
	14	3.1	2.7	3.7	2.8	4.2	3.0	4.5	3.1	4.7	3.1	5.0	3.1	5.4	2.9
	16	3.1	2.7	3.7	2.8	4.2	3.0	4.5	3.1	4.7	3.1	5.0	3.1	5.3	2.8
	18	3.1	2.7	3.7	2.8	4.2	3.0	4.5	3.1	4.7	3.1	5.0	3.1	5.3	2.8
	20	3.1	2.7	3.7	2.8	4.2	3.0	4.5	3.1	4.7	3.1	5.0	3.1	5.3	2.8
	21	3.1	2.7	3.7	2.8	4.2	3.0	4.5	3.1	4.7	3.1	5.0	3.1	5.3	2.8
	23	3.1	2.7	3.7	2.8	4.2	3.0	4.5	3.1	4.7	3.1	5.0	3.1	5.3	2.8
	25	3.1	2.7	3.7	2.8	4.2	3.0	4.5	3.1	4.7	3.1	5.0	3.1	5.3	2.8
	27	3.1	2.7	3.7	2.8	4.2	3.0	4.5	3.1	4.7	3.1	5.0	3.1	5.3	2.8
	29	3.1	2.7	3.7	2.8	4.2	3.0	4.5	3.1	4.7	3.1	5.0	3.1	5.3	2.8
	31	3.1	2.7	3.7	2.8	4.2	3.0	4.5	3.1	4.7	3.1	5.0	3.1	5.3	2.8
	33	3.1	2.7	3.7	2.8	4.2	3.0	4.5	3.1	4.7	3.1	5.0	3.1	5.3	2.8
	35	3.1	2.7	3.7	2.8	4.2	3.0	4.5	3.1	4.7	3.1	5.0	3.1	5.3	2.8
	37	3.1	2.7	3.7	2.8	4.2	3.0	4.5	3.1	4.6	3.0	4.9	3.0	5.2	2.7
	39	3.1	2.7	3.7	2.8	4.2	3.0	4.5	3.1	4.6	3.0	4.9	3.0	5.1	2.6
056	10	3.9	3.2	4.6	3.5	5.3	3.9	5.6	3.9	5.8	3.9	6.3	3.9	6.7	3.7
	12	3.9	3.2	4.6	3.5	5.3	3.9	5.6	3.9	5.8	3.9	6.3	3.9	6.7	3.7
	14	3.9	3.2	4.6	3.5	5.3	3.9	5.6	3.9	5.8	3.9	6.2	3.8	6.7	3.7
	16	3.9	3.2	4.6	3.5	5.3	3.9	5.6	3.9	5.8	3.9	6.2	3.8	6.6	3.6
	18	3.9	3.2	4.6	3.5	5.3	3.9	5.6	3.9	5.8	3.9	6.2	3.8	6.6	3.6
	20	3.9	3.2	4.6	3.5	5.3	3.9	5.6	3.9	5.8	3.9	6.2	3.8	6.6	3.6
	21	3.9	3.2	4.6	3.5	5.3	3.9	5.6	3.9	5.8	3.9	6.2	3.8	6.6	3.6
	23	3.9	3.2	4.6	3.5	5.3	3.9	5.6	3.9	5.8	3.9	6.2	3.8	6.6	3.6
	25	3.9	3.2	4.6	3.5	5.3	3.9	5.6	3.9	5.8	3.9	6.2	3.8	6.6	3.6
	27	3.9	3.2	4.6	3.5	5.3	3.9	5.6	3.9	5.8	3.9	6.2	3.8	6.6	3.6
	29	3.9	3.2	4.6	3.5	5.3	3.9	5.6	3.9	5.8	3.9	6.2	3.8	6.6	3.6
	31	3.9	3.2	4.6	3.5	5.3	3.9	5.6	3.9	5.8	3.9	6.2	3.8	6.6	3.6
	33	3.9	3.2	4.6	3.5	5.3	3.9	5.6	3.9	5.8	3.9	6.2	3.8	6.6	3.6
	35	3.9	3.2	4.6	3.5	5.3	3.9	5.6	3.9	5.8	3.9	6.2	3.8	6.6	3.6
	37	3.9	3.2	4.6	3.5	5.3	3.9	5.6	3.9	5.8	3.9	6.2	3.8	6.6	3.5
	39	3.9	3.2	4.6	3.5	5.3	3.9	5.6	3.9	5.8	3.9	6.2	3.8	6.6	3.4
071	10	4.9	4.0	5.8	4.5	6.7	4.8	7.1	5.0	7.4	5.0	8.0	5.1	8.5	4.8
	12	4.9	4.0	5.8	4.5	6.7	4.8	7.1	5.0	7.4	5.0	7.9	5.0	8.5	4.8
	14	4.9	4.0	5.8	4.5	6.7	4.8	7.1	5.0	7.4	5.0	7.9	5.0	8.5	4.8
	16	4.9	4.0	5.8	4.5	6.7	4.8	7.1	5.0	7.4	5.0	7.9	5.0	8.4	4.8
	18	4.9	4.0	5.8	4.5	6.7	4.8	7.1	5.0	7.4	5.0	7.9	5.0	8.4	4.8
	20	4.9	4.0	5.8	4.5	6.7	4.8	7.1	5.0	7.4	5.0	7.9	5.0	8.4	4.8
	21	4.9	4.0	5.8	4.5	6.7	4.8	7.1	5.0	7.4	5.0	7.9	5.0	8.4	4.8
	23	4.9	4.0	5.8	4.5	6.7	4.8	7.1	5.0	7.4	5.0	7.9	5.0	8.4	4.8
	25	4.9	4.0	5.8	4.5	6.7	4.8	7.1	5.0	7.4	5.0	7.9	5.0	8.4	4.8
	27	4.9	4.0	5.8	4.5	6.7	4.8	7.1	5.0	7.4	5.0	7.9	5.0	8.4	4.8
	29	4.9	4.0	5.8	4.5	6.7	4.8	7.1	5.0	7.4	5.0	7.9	5.0	8.4	4.8
	31	4.9	4.0	5.8	4.5	6.7	4.8	7.1	5.0	7.4	5.0	7.9	5.0	8.4	4.8
	33	4.9	4.0	5.8	4.5	6.7	4.8	7.1	5.0	7.4	5.0	7.9	5.0	8.4	4.8
	35	4.9	4.0	5.8	4.5	6.7	4.8	7.1	5.0	7.4	5.0	7.9	5.0	8.4	4.8
	37	4.9	4.0	5.8	4.5	6.7	4.8	7.1	5.0	7.3	4.9	7.8	4.9	8.2	4.7
	39	4.9	4.0	5.8	4.5	6.7	4.8	7.1	5.0	7.3	4.9	7.7	4.8	8.1	4.6
090	10	6.2	5.2	7.3	5.7	8.4	6.3	9.0	6.3	9.4	6.3	10.1	6.3	10.8	6.3
	12	6.2	5.2	7.3	5.7	8.4	6.3	9.0	6.3	9.4	6.3	10.1	6.3	10.8	6.3
	14	6.2	5.2	7.3	5.7	8.4	6.3	9.0	6.3	9.3	6.3	10.0	6.2	10.7	6.2
	16	6.2	5.2	7.3	5.7	8.4	6.3	9.0	6.3	9.3	6.3	10.0	6.2	10.7	6.2
	18	6.2	5.2	7.3	5.7	8.4	6.3	9.0	6.3	9.3	6.3	10.0	6.2	10.6	6.1
	20	6.2	5.2	7.3	5.7	8.4	6.3	9.0	6.3	9.3	6.3	10.0	6.2	10.6	6.1
	21	6.2	5.2	7.3	5.7	8.4	6.3	9.0	6.3	9.3	6.3	10.0	6.2	10.6	6.1
	23	6.2	5.2	7.3	5.7	8.4	6.3	9.0	6.3	9.3	6.3	10.0	6.2	10.6	6.1
	25	6.2	5.2	7.3	5.7	8.4	6.3	9.0	6.3	9.3	6.3	10.0	6.2	10.6	6.1
	27	6.2	5.2	7.3	5.7	8.4	6.3	9.0	6.3	9.3	6.3	10.0	6.2	10.6	6.1
	29	6.2	5.2	7.3	5.7	8.4	6.3	9.0	6.3	9.3	6.3	10.0	6.2	10.6	6.1
	31	6.2	5.2	7.3	5.7	8.4	6.3	9.0	6.3	9.3	6.3	10.0	6.2	10.6	6.1
	33	6.2	5.2	7.3	5.7	8.4	6.3	9.0	6.3	9.3	6.3	10.0	6.2	10.6	6.1
	35	6.2	5.2	7.3	5.7	8.4	6.3	9.0	6.3	9.3	6.3	10.0	6.2	10.6	6.1
	37	6.2	5.2	7.3	5.7	8.4	6.3	9.0	6.3	9.3	6.3	9.9	6.1	10.4	6.0
	39	6.2	5.2	7.3	5.7	8.4	6.3	9.0	6.4	9.2	6.2	9.7	6.0	10.2	5.9
112	10	7.7	6.4	9.1	7.1	10.5	7.8	11.2	7.9	11.6	7.9	12.5	7.9	13.4	7.9
	12	7.7	6.4	9.1	7.1	10.5	7.8	11.2	7.9	11.6	7.9	12.5	7.9	13.4	7.9
	14	7.7	6.4	9.1	7.1	10.5	7.8	11.2	7.9	11.6	7.9	12.5	7.9	13.3	7.8
	16	7.7	6.4	9.1	7.1	10.5	7.8	11.2	7.9	11.6	7.9	12.5	7.9	13.3	7.8
	18	7.7	6.4	9.1	7.1	10.5	7.8	11.2	7.9	11.6	7.9	12.4	7.9	13.2	7.7
	20	7.7	6.4	9.1	7.1	10.5	7.8	11.2	7.9	11.6	7.9	12.4	7.9	13.2	7.7
	21	7.7	6.4	9.1	7.1	10.5	7.8	11.2	7.9	11.6	7.9	12.4	7.9	13.2	7.7
	23	7.7	6.4	9.1	7.1	10.5	7.8	11.2	7.9	11.6	7.9	12.4	7.9	13.2	7.7
	25	7.7	6.4	9.1	7.1	10.5	7.8	11.2	7.9	11.6	7.9	12.4	7.9	13.2	7.7
	27	7.7	6.4	9.1	7.1	10.5	7.8	11.2	7.9	11.6	7.9	12.4	7.9	13.2	7.7
	29	7.7	6.4	9.1	7.1	10.5	7.8	11.2	7.9	11.6	7.9	12.4	7.9	13.2	7.7
	31	7.7	6.4	9.1	7.1	10.5	7.8	11.2	7.9	11.6	7.9	12.4	7.9	13.2	7.7
	33	7.7	6.3	9.1	7.0	10.5	7.8	11.2	7.9	11.6	7.9	12.4	7.9	13.2	7.7
	35	7.7	6.3	9.1	7.0	10.5	7.8	11.2	7.9	11.6	7.9	12.4	7.9	13.2	7.7
	37	7.7	6.3	9.1	7.0	10.5	7.8	11.2	7.9	11.6	7.9	12.3	7.8	13.0	7.6
	39	7.7	6.3	9.1	7.0	10.5	7.8	11.2	8.0	11.5	7.8	12.1	7.7	12.7	7.5

TC : Total Capacity(kW), SHC : Sensible Heat Capacity(kW)

Model	Outdoor temperature (°C, DB)	Indoor temperature (°C, WB)													
		20 (°C, DB)		23 (°C, DB)		26 (°C, DB)		27 (°C, DB)		28 (°C, DB)		30 (°C, DB)		32 (°C, DB)	
		14 (°C, WB)		16 (°C, WB)		18 (°C, WB)		19 (°C, WB)		20 (°C, WB)		22 (°C, WB)		24 (°C, WB)	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
128	10	8.8	7.3	10.4	8.1	12.0	9.0	12.8	9.1	13.3	9.1	14.3	9.1	15.4	9.1
	12	8.8	7.3	10.4	8.1	12.0	9.0	12.8	9.1	13.3	9.1	14.3	9.1	15.3	9.0
	14	8.8	7.3	10.4	8.1	12.0	9.0	12.8	9.1	13.3	9.1	14.3	9.1	15.3	9.0
	16	8.8	7.3	10.4	8.1	12.0	9.0	12.8	9.1	13.3	9.1	14.2	9.0	15.2	8.9
	18	8.8	7.3	10.4	8.1	12.0	9.0	12.8	9.1	13.3	9.1	14.2	9.0	15.1	8.8
	20	8.8	7.3	10.4	8.1	12.0	9.0	12.8	9.1	13.3	9.1	14.2	9.0	15.1	8.8
	21	8.8	7.3	10.4	8.1	12.0	9.0	12.8	9.1	13.3	9.1	14.2	9.0	15.1	8.8
	23	8.8	7.3	10.4	8.1	12.0	9.0	12.8	9.1	13.3	9.1	14.2	9.0	15.1	8.8
	25	8.8	7.3	10.4	8.1	12.0	9.0	12.8	9.1	13.3	9.1	14.2	9.0	15.1	8.8
	27	8.8	7.3	10.4	8.1	12.0	9.0	12.8	9.1	13.3	9.1	14.2	9.0	15.1	8.8
	29	8.8	7.3	10.4	8.1	12.0	9.0	12.8	9.1	13.3	9.1	14.2	9.0	15.1	8.8
	31	8.8	7.3	10.4	8.1	12.0	9.0	12.8	9.1	13.3	9.1	14.2	9.0	15.1	8.8
	33	8.8	7.3	10.4	8.1	12.0	9.0	12.8	9.1	13.3	9.1	14.2	9.0	15.1	8.8
	35	8.8	7.3	10.4	8.1	12.0	9.0	12.8	9.1	13.3	9.1	14.2	9.0	15.1	8.8
	37	8.8	7.3	10.4	8.1	12.0	9.0	12.8	9.1	13.2	9.0	14.0	8.9	14.9	8.7
	39	8.8	7.3	10.4	8.1	12.0	9.0	12.8	9.2	13.1	8.9	13.8	8.8	14.5	8.6
140	10	9.7	7.7	11.4	8.5	13.1	9.4	14.0	9.6	14.6	9.6	15.7	9.5	16.8	9.7
	12	9.7	7.7	11.4	8.5	13.1	9.4	14.0	9.6	14.5	9.6	15.6	9.6	16.7	9.6
	14	9.7	7.7	11.4	8.5	13.1	9.4	14.0	9.6	14.5	9.6	15.6	9.6	16.7	9.6
	16	9.7	7.7	11.4	8.5	13.1	9.4	14.0	9.6	14.5	9.6	15.6	9.6	16.6	9.5
	18	9.7	7.7	11.4	8.5	13.1	9.4	14.0	9.6	14.5	9.6	15.5	9.5	16.6	9.5
	20	9.7	7.7	11.4	8.5	13.1	9.4	14.0	9.6	14.5	9.6	15.5	9.5	16.5	9.4
	21	9.7	7.7	11.4	8.5	13.1	9.4	14.0	9.6	14.5	9.6	15.5	9.5	16.5	9.4
	23	9.7	7.7	11.4	8.5	13.1	9.4	14.0	9.6	14.5	9.6	15.5	9.5	16.5	9.4
	25	9.7	7.7	11.4	8.5	13.1	9.4	14.0	9.6	14.5	9.6	15.5	9.5	16.5	9.4
	27	9.7	7.7	11.4	8.5	13.1	9.4	14.0	9.6	14.5	9.6	15.5	9.5	16.5	9.4
	29	9.7	7.7	11.4	8.5	13.1	9.4	14.0	9.6	14.5	9.6	15.5	9.5	16.5	9.4
	31	9.7	7.7	11.4	8.5	13.1	9.4	14.0	9.6	14.5	9.6	15.5	9.5	16.5	9.4
	33	9.7	7.7	11.4	8.5	13.1	9.4	14.0	9.6	14.5	9.6	15.5	9.5	16.5	9.4
	35	9.7	7.7	11.4	8.5	13.1	9.4	14.0	9.6	14.5	9.6	15.5	9.5	16.5	9.4
	37	9.7	7.7	11.4	8.5	13.1	9.4	14.0	9.6	14.5	9.6	15.4	9.4	16.3	9.2
	39	9.7	7.7	11.4	8.5	13.1	9.4	14.0	9.6	14.4	9.4	15.1	9.3	15.9	9.0

2) Heating

TC : Total Capacity(kW)

Model	Outdoor temperature (°C)		Indoor temperature (°C, DB)				
			16.0	18.0	20.0	22.0	24.0
			TC	TC	TC	TC	TC
	DB	WB	kW	kW	kW	kW	kW
045	-20	-21	3.1	3.1	2.9	2.9	2.9
	-17	-18	3.2	3.2	3.1	3.0	3.0
	-15	-16	3.3	3.3	3.2	3.1	3.0
	-12	-13	3.5	3.4	3.4	3.3	3.2
	-10	-11	3.7	3.6	3.6	3.5	3.5
	-7	-8	3.9	3.8	3.8	3.7	3.6
	-5	-6	4.1	4.0	4.0	3.9	3.7
	-3	-4	4.3	4.2	4.2	4.0	3.9
	0	-1	4.5	4.4	4.4	4.2	4.0
	3	2.2	4.7	4.7	4.6	4.4	4.2
	5	4.1	4.9	4.9	4.8	4.5	4.2
	7	6	5.1	5.1	5.0	4.6	4.2
	9	7.9	5.3	5.2	5.0	4.6	4.2
	11	9.8	5.5	5.2	5.0	4.6	4.2
	13	12	5.6	5.3	5.0	4.6	4.2
	15	14	5.8	5.4	5.0	4.6	4.2
056	-20	-21	3.9	3.8	3.8	3.7	3.7
	-17	-18	4.0	4.0	3.9	3.8	3.8
	-15	-16	4.2	4.1	4.0	3.9	3.8
	-12	-13	4.4	4.3	4.2	4.2	4.1
	-10	-11	4.6	4.6	4.5	4.4	4.4
	-7	-8	4.9	4.8	4.8	4.7	4.5
	-5	-6	5.2	5.1	5.0	4.9	4.7
	-3	-4	5.4	5.3	5.3	5.1	4.9
	0	-1	5.7	5.6	5.5	5.3	5.0
	3	2.2	5.9	5.9	5.8	5.6	5.3
	5	4.1	6.2	6.1	6.0	5.7	5.3
	7	6	6.5	6.4	6.3	5.8	5.3
	9	7.9	6.7	6.5	6.3	5.8	5.3
	11	9.8	6.9	6.6	6.3	5.8	5.3
	13	12	7.1	6.7	6.3	5.8	5.3
	15	14	7.3	6.8	6.3	5.8	5.3

2-2. Capacity tables

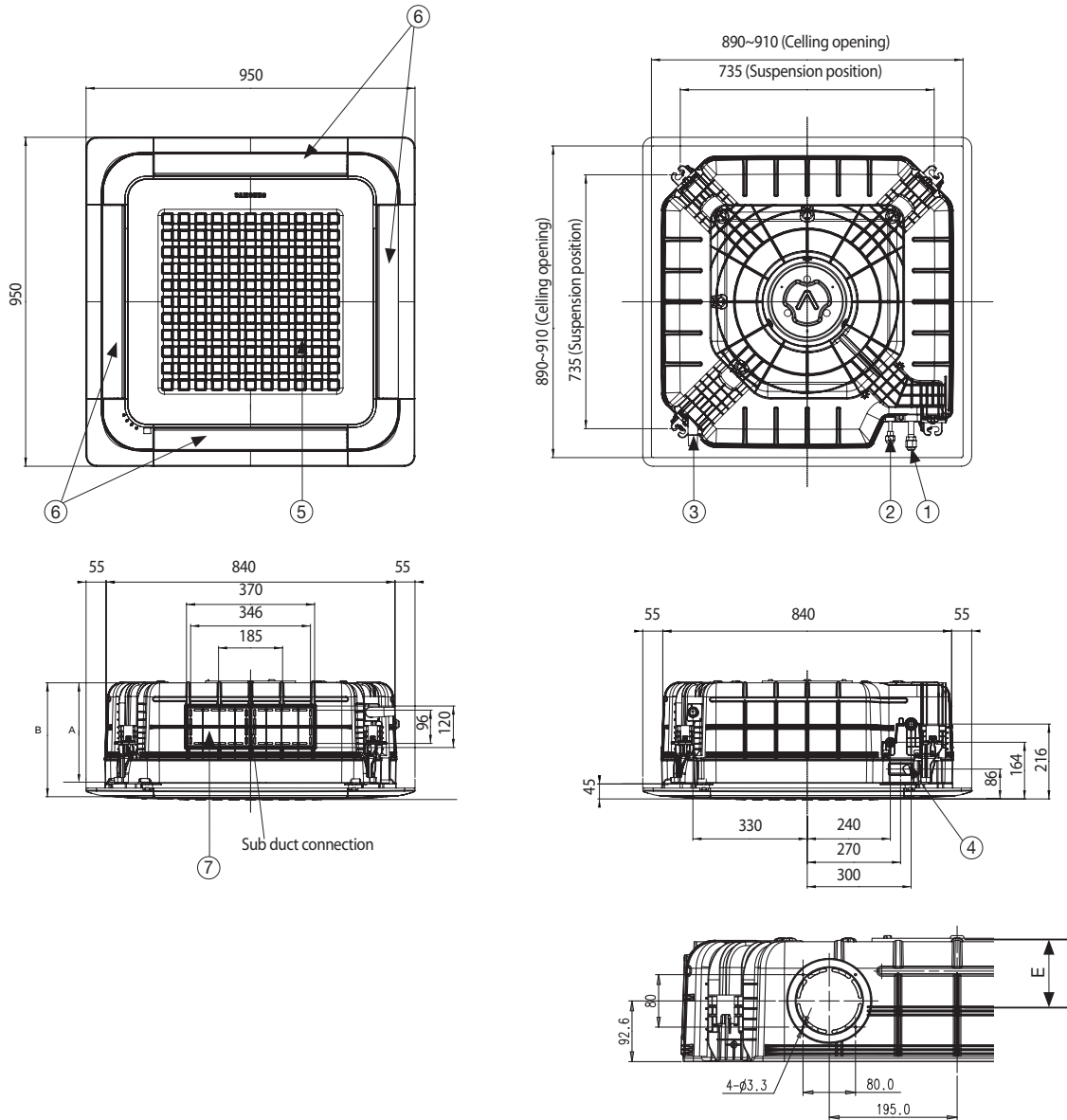
2) Heating

TC : Total Capacity(kW)

Model	Outdoor temperature (°C)		Indoor temperature (°C, DB)				
			16.0	18.0	20.0	22.0	24.0
			TC	TC	TC	TC	TC
	DB	WB	kW	kW	kW	kW	kW
071	-20	-21	4.9	4.9	4.8	4.7	4.7
	-17	-18	5.1	5.0	4.9	4.8	4.8
	-15	-16	5.3	5.2	5.1	4.9	4.8
	-12	-13	5.6	5.5	5.4	5.3	5.2
	-10	-11	5.9	5.8	5.7	5.6	5.6
	-7	-8	6.2	6.1	6.0	5.9	5.8
	-5	-6	6.5	6.5	6.4	6.2	6.0
	-3	-4	6.9	6.8	6.7	6.4	6.2
	0	-1	7.2	7.1	7.0	6.7	6.4
	3	2.2	7.6	7.5	7.3	7.1	6.8
	5	4.1	7.9	7.8	7.7	7.2	6.8
	7	6	8.2	8.1	8.0	7.4	6.8
	9	7.9	8.5	8.2	8.0	7.4	6.8
	11	9.8	8.7	8.4	8.0	7.4	6.8
	13	12	9.0	8.5	8.0	7.4	6.8
	15	14	9.2	8.6	8.0	7.4	6.8
090	-20	-21	6.0	6.0	5.9	5.8	5.8
	-17	-18	6.3	6.3	6.1	6.0	5.9
	-15	-16	6.7	6.5	6.3	6.1	6.0
	-12	-13	7.0	6.9	6.7	6.6	6.5
	-10	-11	7.3	7.2	7.1	7.0	7.0
	-7	-8	7.8	7.7	7.6	7.4	7.2
	-5	-6	8.2	8.1	8.0	7.7	7.5
	-3	-4	8.6	8.5	8.4	8.1	7.7
	0	-1	9.0	8.9	8.8	8.4	8.0
	3	2.2	9.4	9.3	9.2	8.8	8.4
	5	4.1	9.9	9.7	9.6	9.0	8.4
	7	6	10.3	10.1	10.0	9.2	8.4
	9	7.9	10.6	10.3	10.0	9.2	8.4
	11	9.8	10.9	10.5	10.0	9.2	8.4
	13	12	11.2	10.6	10.0	9.2	8.4
	15	14	11.6	10.8	10.0	9.2	8.4
112	-20	-21	7.4	7.4	7.3	7.3	7.3
	-17	-18	8.0	7.8	7.6	7.5	7.4
	-15	-16	8.4	8.1	7.9	7.7	7.5
	-12	-13	8.8	8.6	8.4	8.2	8.1
	-10	-11	9.2	9.0	8.9	8.8	8.7
	-7	-8	9.7	9.6	9.4	9.2	9.0
	-5	-6	10.2	10.1	9.9	9.6	9.3
	-3	-4	10.7	10.6	10.5	10.1	9.7
	0	-1	11.3	11.1	11.1	10.5	10.0
	3	2.2	11.8	11.6	11.5	11.0	10.6
	5	4.1	12.3	12.2	12.0	11.3	10.6
	7	6	12.9	12.7	12.5	11.5	10.6
	9	7.9	13.3	12.9	12.5	11.5	10.6
	11	9.8	13.7	13.1	12.5	11.5	10.6
	13	12	14.0	13.3	12.5	11.5	10.6
	15	14	14.4	13.5	12.5	11.5	10.6
128	-20	-21	8.1	8.1	8.0	8.0	8.0
	-17	-18	8.7	8.5	8.4	8.3	8.1
	-15	-16	9.2	9.0	8.7	8.5	8.2
	-12	-13	9.7	9.5	9.3	9.1	8.9
	-10	-11	10.1	10.0	9.9	9.7	9.6
	-7	-8	10.7	10.6	10.4	10.2	10.0
	-5	-6	11.3	11.1	11.0	10.7	10.3
	-3	-4	11.9	11.7	11.5	11.1	10.7
	0	-1	12.4	12.3	12.1	11.6	11.0
	3	2.2	13.0	12.9	12.7	12.2	11.7
	5	4.1	13.6	13.4	13.2	12.4	11.7
	7	6	14.2	14.0	13.8	12.7	11.7
	9	7.9	14.6	14.2	13.8	12.7	11.7
	11	9.8	15.1	14.4	13.8	12.7	11.7
	13	12	15.5	14.7	13.8	12.7	11.7
	15	14	15.9	14.9	13.8	12.7	11.7
140	-20	-21	9.5	9.5	9.4	9.4	9.3
	-17	-18	10.1	9.9	9.6	9.6	9.4
	-15	-16	10.7	10.4	10.1	9.8	9.5
	-12	-13	11.2	11.0	10.8	10.6	10.3
	-10	-11	11.7	11.6	11.4	11.3	11.1
	-7	-8	12.4	12.2	12.1	11.8	11.5
	-5	-6	13.1	12.9	12.7	12.3	12.0
	-3	-4	13.8	13.6	13.4	12.9	12.4
	0	-1	14.4	14.2	14.0	13.4	12.8
	3	2.2	15.1	14.9	14.7	14.1	13.5
	5	4.1	15.8	15.6	15.3	14.4	13.5
	7	6	16.5	16.2	16.0	14.8	13.5
	9	7.9	17.0	16.5	16.0	14.8	13.5
	11	9.8	17.5	16.7	16.0	14.8	13.5
	13	12	18.0	17.0	16.0	14.8	13.5
	15	14	18.5	17.2	16.0	14.8	13.5

2-3 . Dimensional drawing

Unit:mm



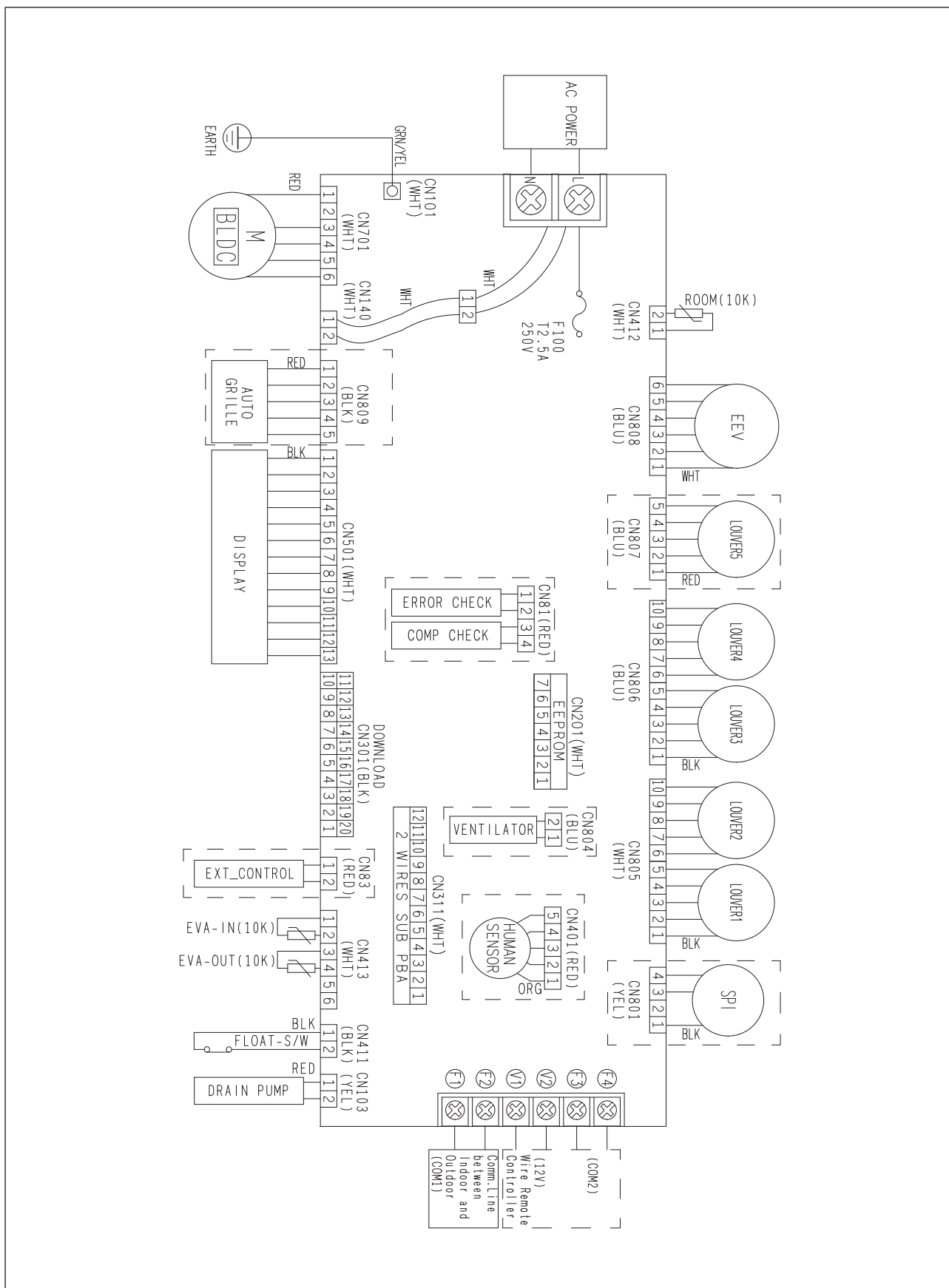
No.	Name	Description			
		4.5/5.6kW	7.1/9.0kW	11.2kW	12.8/14.0kW
①	Liquid pipe connection	Ø6.35 Flare	Ø9.52 Flare		
②	Gas pipe connection	Ø12.70 Flare	Ø15.88 Flare		
③	Drain pipe connection	VP25 (OD 32, ID 25)			
④	Conduit for power supply & communication wiring	-			
⑤	Air inlet grille	-			
⑥	Air outlet louver	-			
⑦	Sub-Duct	-			

		Description			
		4.5/5.6kW	7.1/9.0kW	11.2kW	12.8/14.0kW
A	mm	204		246	288
B	mm	253		295	337

2

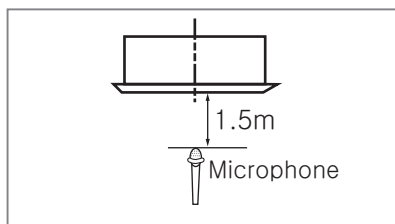
4 way cassette S

2-4. Electrical wiring diagram



2-5. Sound pressure level

1) Operation sound level



Unit : dB(A)

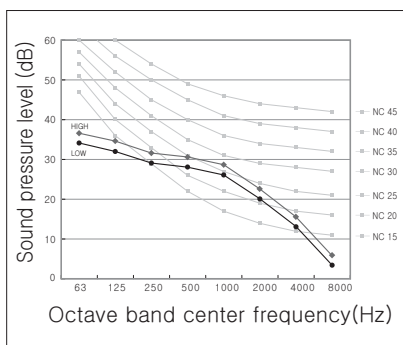
Model	High	Low
AM045FN4DEH***	33	30
AM056FN4DEH***	33	30
AM071FN4DEH***	35	33
AM090FN4DEH***	39	33
AM112FN4DEH***	40	35
AM128FN4DEH***	42	35
AM140FN4DEH***	44	35



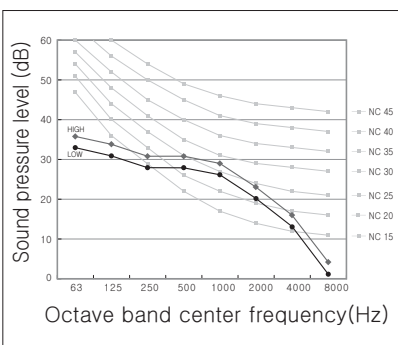
- * These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- * Operation sound level may differ depending on operation and ambient conditions.

2) NC curves

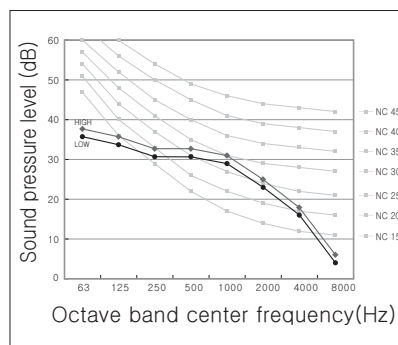
(1)AM045FN4DEH***



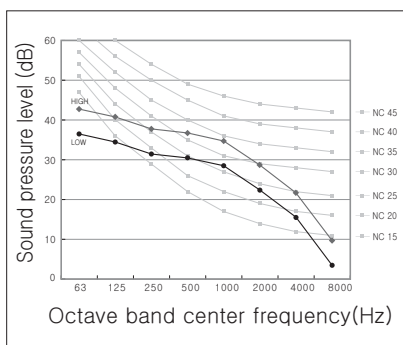
(2)AM056FN4DEH***



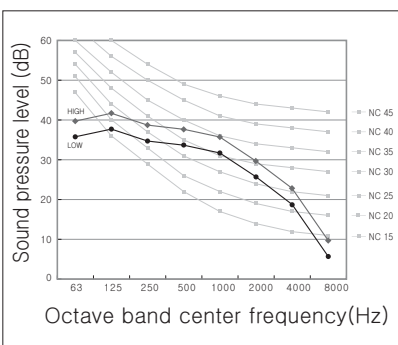
(3)AM071FN4DEH***



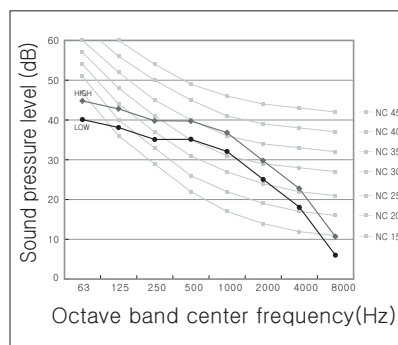
(4)AM090FN4DEH***



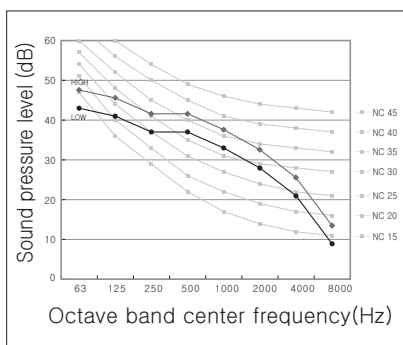
(5)AM112FN4DEH***



(6)AM128FN4DEH***



(7)AM140FN4DEH***



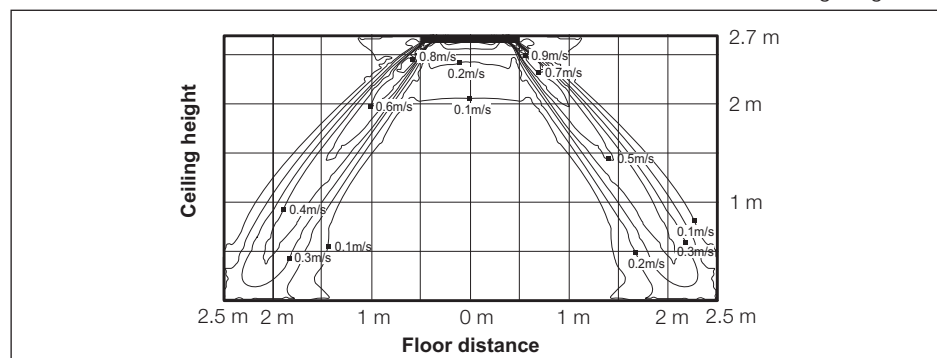
2 4 way cassette S

2-6. Temperature and air flow distribution

1) AM045FN4DEH***

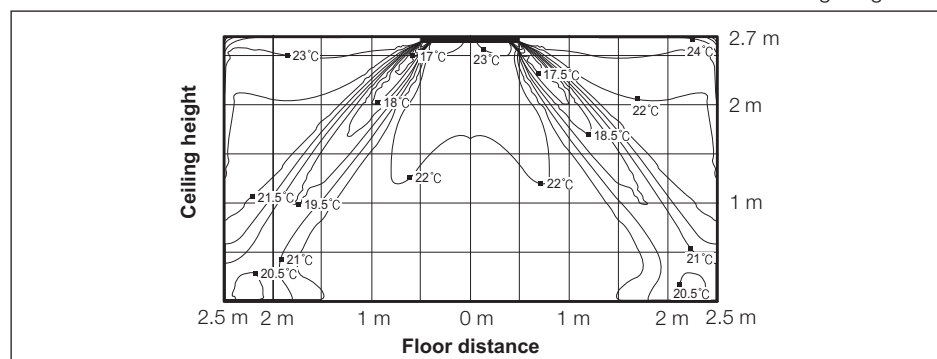
(1) Cooling air velocity distribution

◆ Discharge angle : 45°



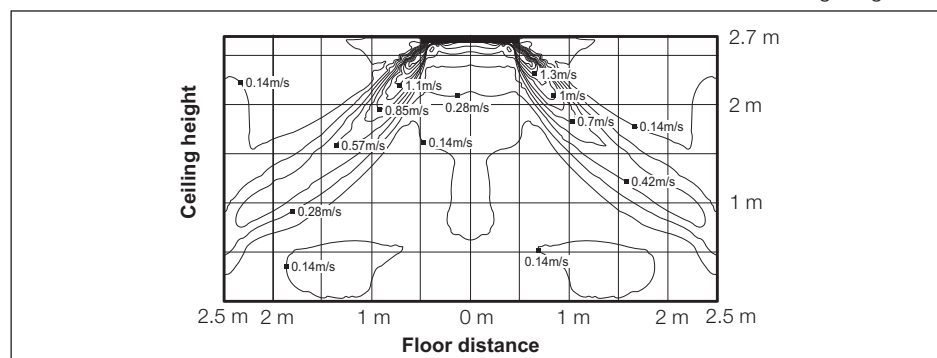
(2) Cooling temperature distribution

◆ Discharge angle : 45°



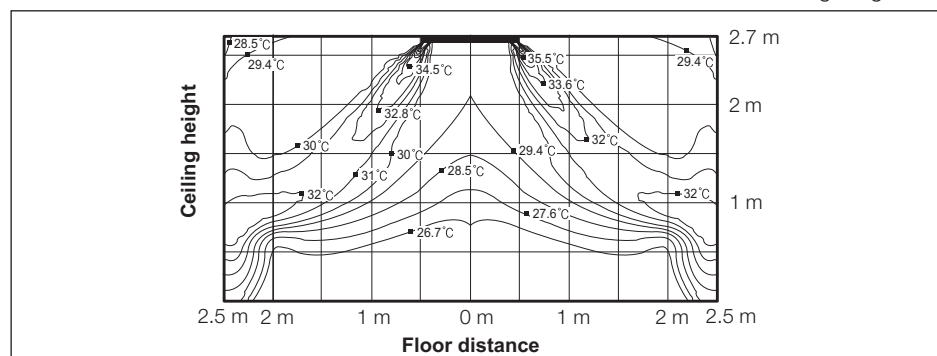
(3) Heating air velocity distribution

◆ Discharge angle : 52°



(4) Heating temperature distribution

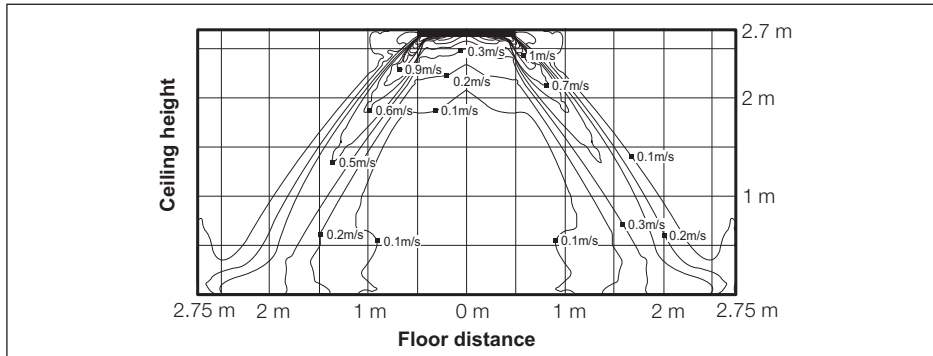
◆ Discharge angle : 52°



2) AM056FN4DEH***

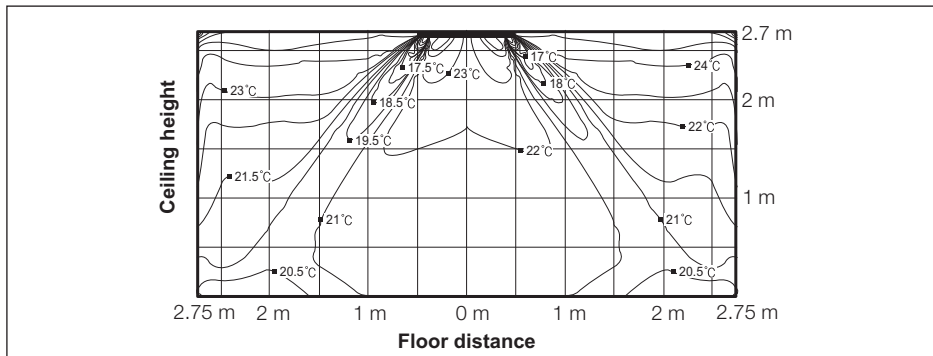
(1) Cooling air velocity distribution

◆ Discharge angle : 45°



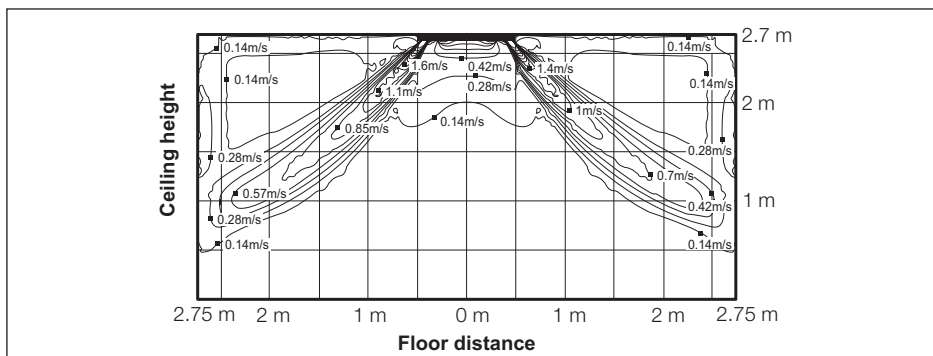
(2) Cooling temperature distribution

◆ Discharge angle : 45°



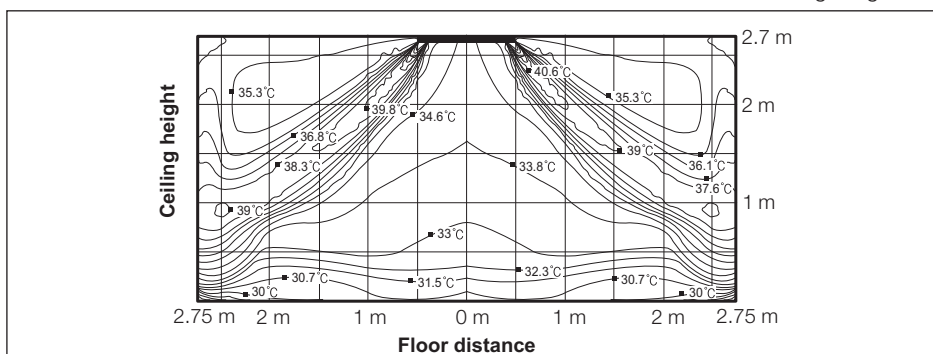
(3) Heating air velocity distribution

◆ Discharge angle : 52°



(4) Heating temperature distribution

◆ Discharge angle : 52°



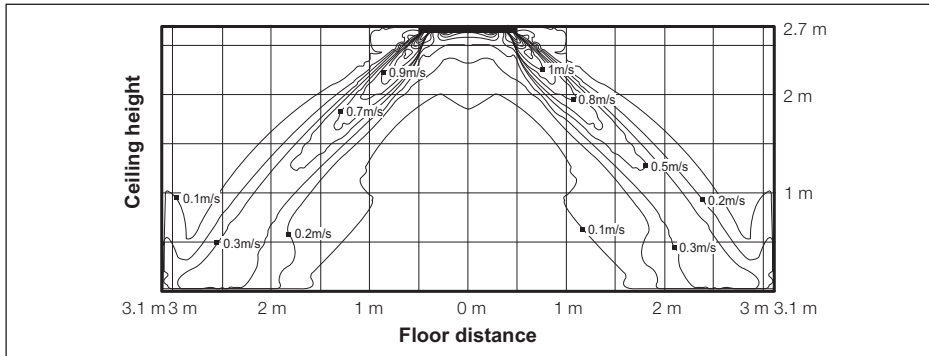
2 4 way cassette S

2-6. Temperature and air flow distribution

3) AM070FN4DEH***

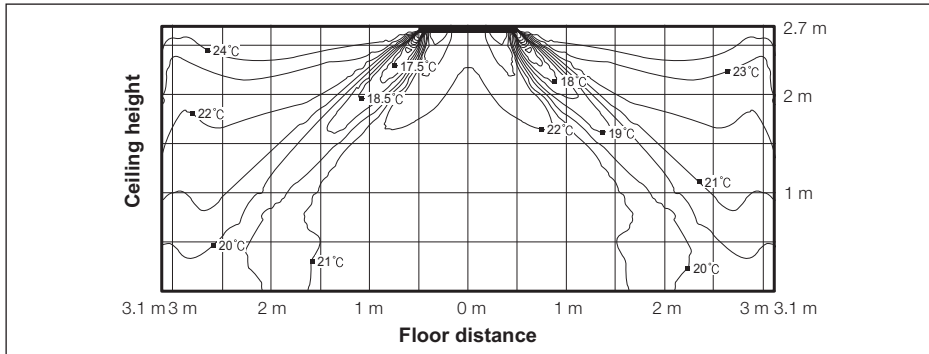
(1) Cooling air velocity distribution

◆ Discharge angle : 45°



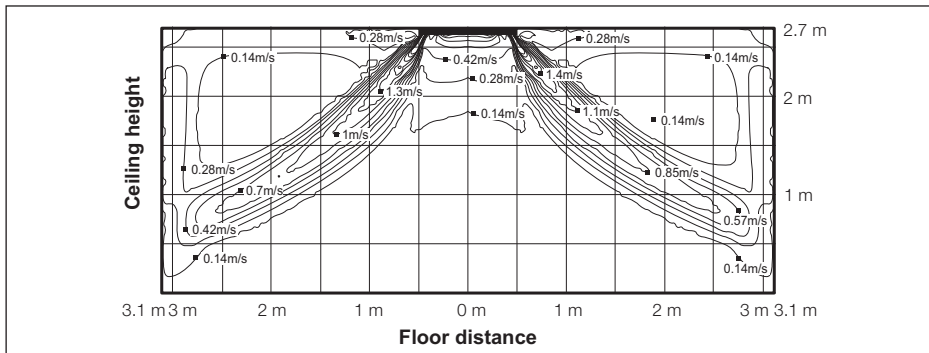
(2) Cooling temperature distribution

◆ Discharge angle : 45°



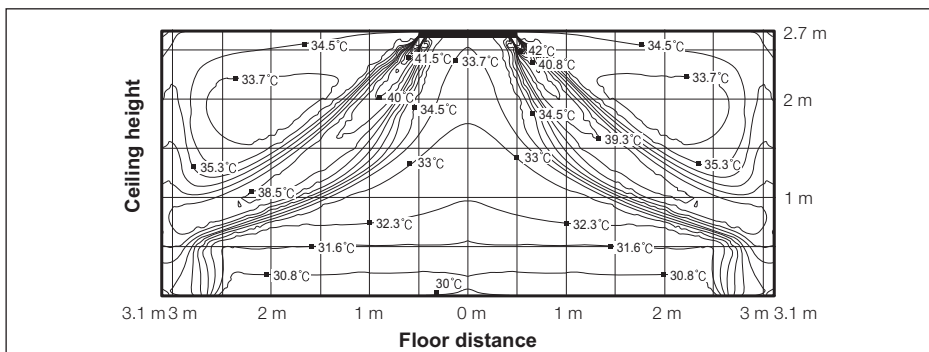
(3) Heating air velocity distribution

◆ Discharge angle : 52°



(4) Heating temperature distribution

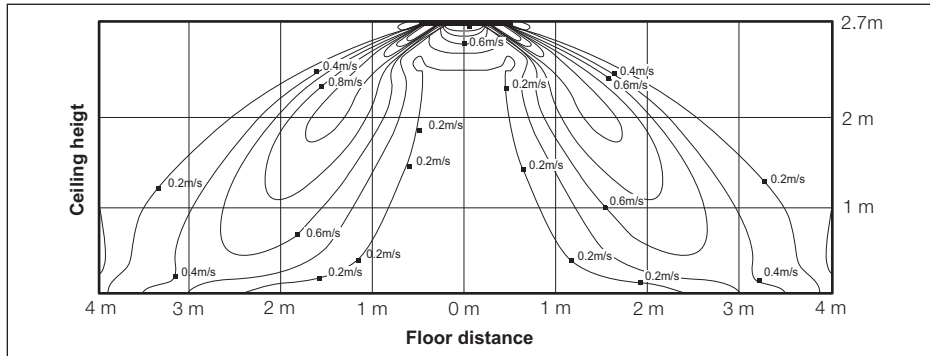
◆ Discharge angle : 52°



4) AM090FN4DEH***

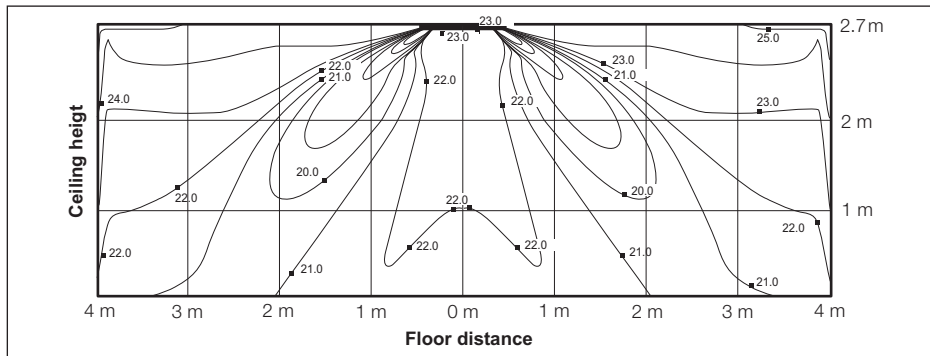
(1) Cooling air velocity distribution

◆ Discharge angle : 45°



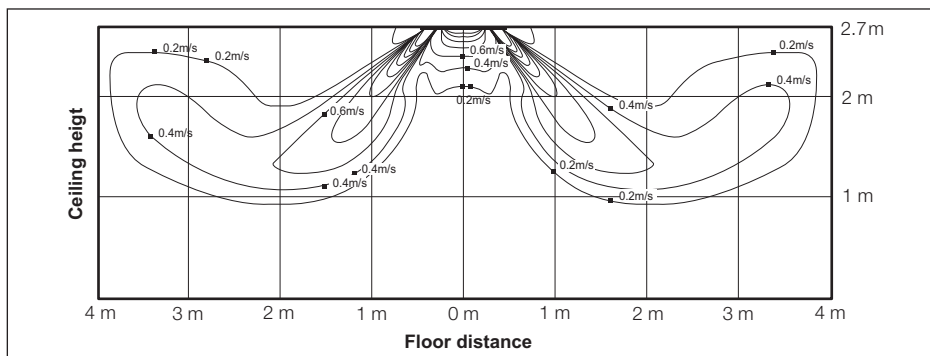
(2) Cooling temperature distribution

◆ Discharge angle : 45°



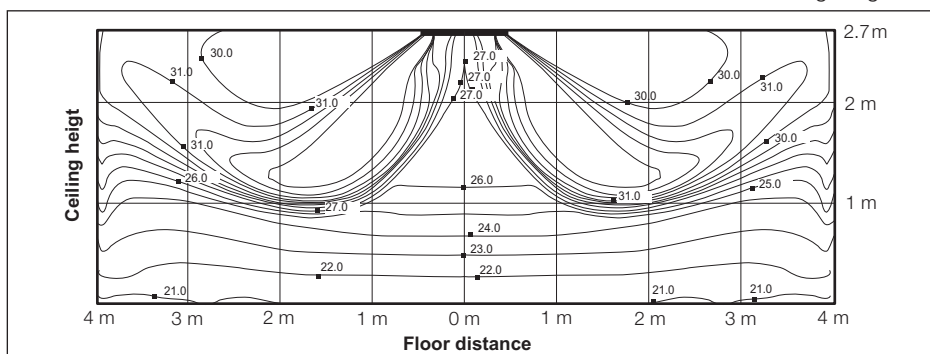
(3) Heating air velocity distribution

◆ Discharge angle : 52°



(4) Heating temperature distribution

◆ Discharge angle : 52°



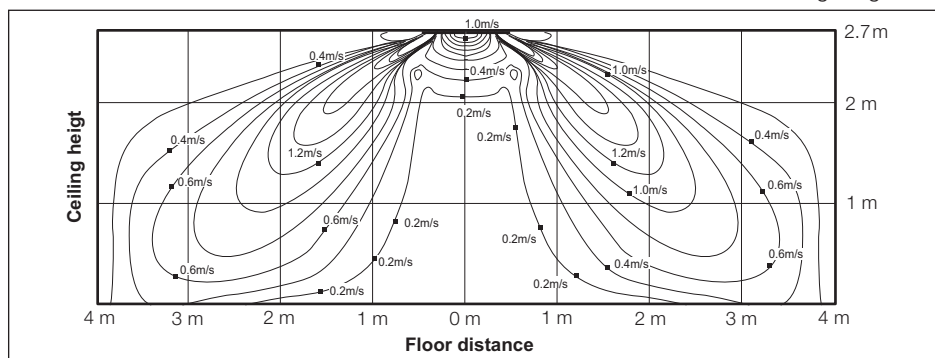
2 4 way cassette S

2-6. Temperature and air flow distribution

5) AM112FN4DEH***

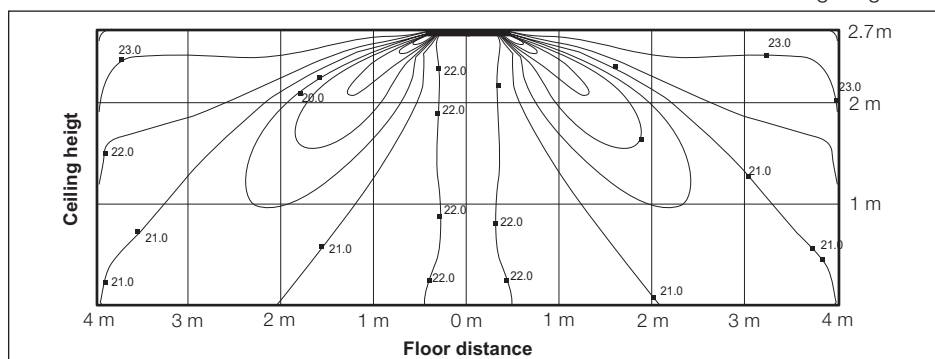
(1) Cooling air velocity distribution

◆ Discharge angle : 45°



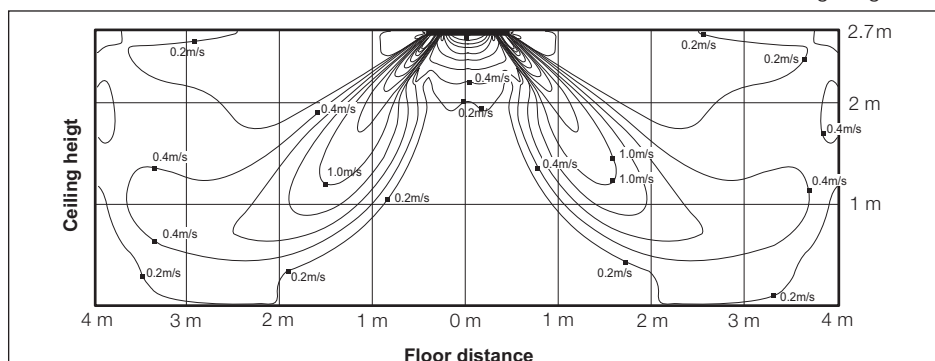
(2) Cooling temperature distribution

◆ Discharge angle : 45°



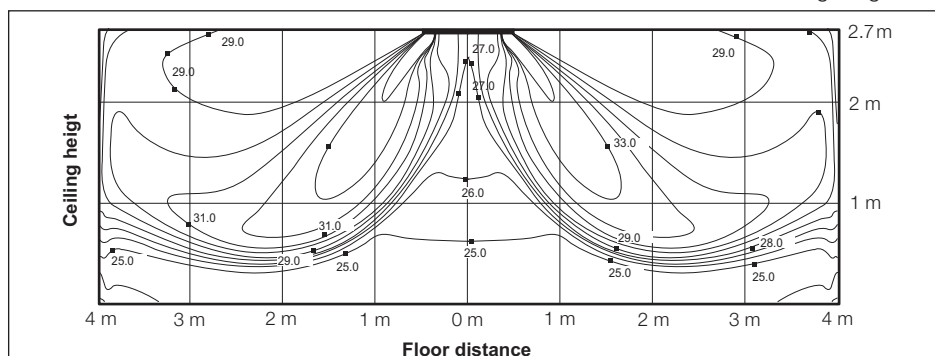
(3) Heating air velocity distribution

◆ Discharge angle : 52°



(4) Heating temperature distribution

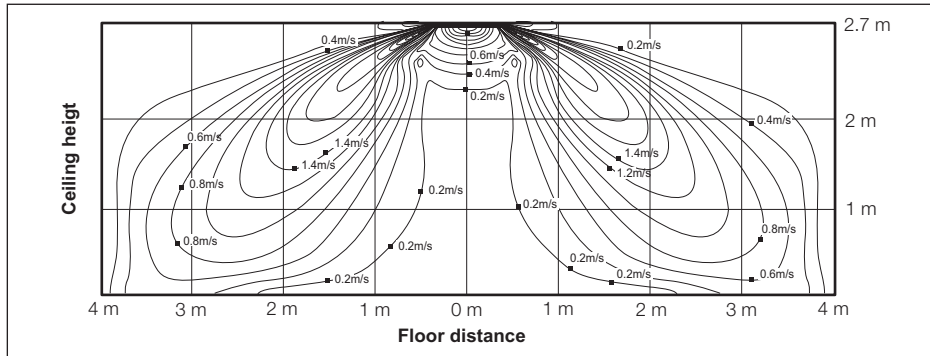
◆ Discharge angle : 52°



6) AM140FN4DEH***

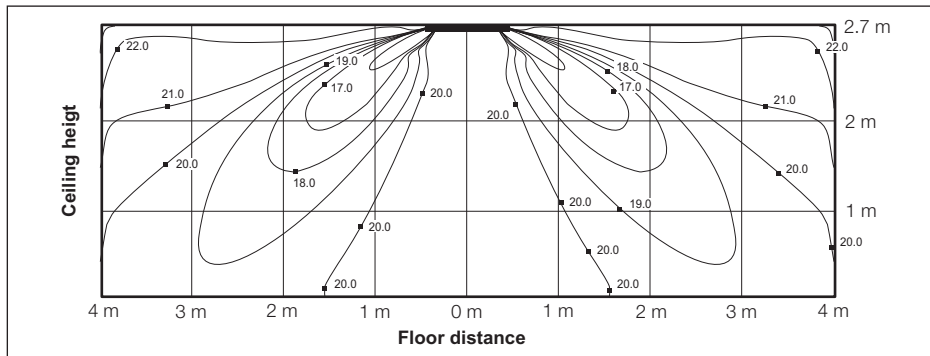
(1) Cooling air velocity distribution

◆ Discharge angle : 45°



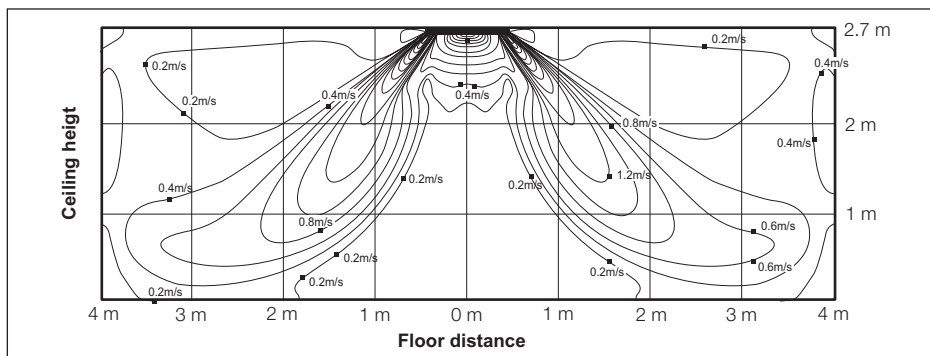
(2) Cooling temperature distribution

◆ Discharge angle : 45°



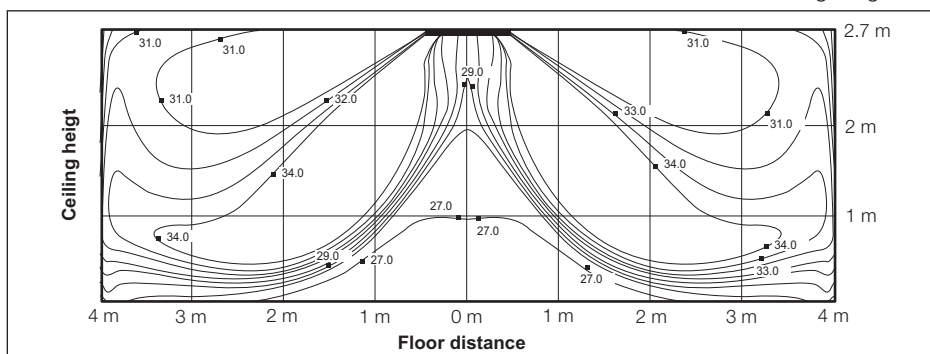
(3) Heating air velocity distribution

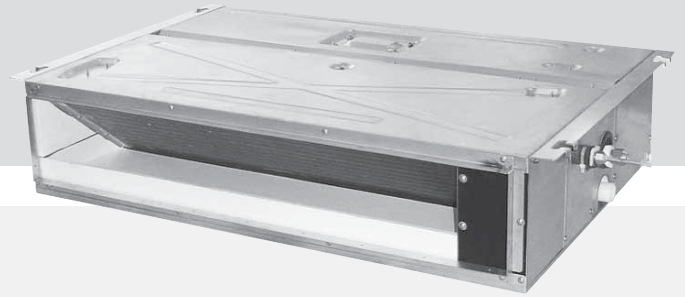
◆ Discharge angle : 52°



(4) Heating temperature distribution

◆ Discharge angle : 52°





3 Slim duct

(AM***FNLDEH***)

3-1. Specifications.....	
3-2. Capacity tables.....	
3-3. Dimensional drawing.....	
3-4. Electrical wiring diagram.....	
3-5. Sound pressure level.....	
3-6. Recommended operation range.....	

3 Slim duct

3-1. Specifications

1) Technical specifications

Model				AM017FNLDEH/EU	AM022FNLDEH***	AM028FNLDEH***	AM036FNLDEH***	AM045FNLDEH***	AM056FNLDEH***
Power Supply			Ø, #, V, Hz	1,2,220-240,50	1,2,220-240,50	1,2,220-240,50	1,2,220-240,50	1,2,220-240,50	1,2,220-240,50
Mode *1)			-	HP/HR	HP/HR	HP/HR	HP/HR	HP/HR	HP/HR
Performance	Capacity (Nominal)	Cooling*2)	kW	1.70	2.2	2.8	3.6	4.5	5.6
			Btu/h	5,800	7,500	9,600	12,300	15,400	19,100
		Heating*3)	kW	1.90	2.5	3.2	4.0	5.0	6.3
			Btu/h	6,500	8,500	10,900	13,600	17,100	21,500
Power	Power Input (Nominal)	Cooling*2)	W	55.00	55	60	65	90	95
		Heating*3)		55.00	55	60	65	90	95
	Current Input (Nominal)	Cooling*2)	A	0.30	0.30	0.32	0.33	0.52	0.53
		Heating*3)		0.30	0.30	0.32	0.33	0.52	0.53
Fan	Motor	Type	-	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan
		Output	W	-	-	-	-	-	-
		Number of unit	EA	1	1	1	1	1	1
	Air Flow Rate	H/M/L (UL)	CMM	5.50/4.30/3.20	7.00/6.10/5.30	7.50/6.60/5.60	7.50/6.60/5.60	11.00/9.60/8.30	12.00/10.50/9.00
			l/s	91.67/71.67/53.33	116.67/101.67/88.33	125.00/110.00/93.33	125.00/110.00/93.33	183.33/160.00/138.33	200.00/175.00/150.00
	External Static Pressure	Mid/Std/Max	mmAq	0.00/1.00/3.00	0.00/1.00/3.00	0.00/1.00/3.00	0.00/1.00/3.00	0.00/2.00/4.00	0.00/2.00/4.00
			Pa	0.00/9.81/29.42	0.00/9.81/29.42	0.00/9.81/29.42	0.00/9.81/29.42	0.00/19.61/39.23	0.00/19.61/39.23
			WG	0/0.039/0.118	0/0.039/0.118	0/0.039/0.118	0/0.039/0.118	0/0.079/0.157	0/0.079/0.157
Option Code			-	010054-12549E-201111-331110	010054-125AC3-201616-331110	010054-125E15-201C1C-331110	010054-125E68-202424-331110	010054-125AE2-202D2D-331110	010054-125E34-203838-331110
Piping Connections	Liquid Pipe		Ø, mm	6.35	6.35	6.35	6.35	6.35	6.35
			Ø, inch	1/4"	1/4	1/4	1/4	1/4	1/4
	Gas Pipe		Ø, mm	12.70	12.70	12.70	12.70	12.70	12.70
			Ø, inch	1/2"	1/2	1/2	1/2	1/2	1/2
	Drain Pipe		Ø, mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
Field Wiring	Power Source Wire	Below 20m/ over 20m	mm ²	1.5 / 2.5	1.5/2.5	1.5/2.5	1.5/2.5	1.5/2.5	1.5/2.5
	Transmission Cable		mm ²	0.75 ~ 1.50	0.75~1.5	0.75~1.5	0.75~1.5	0.75~1.5	0.75~1.5
Refrigerant	Type		-	R410A	R410A	R410A	R410A	R410A	R410A
	Control Method		-	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound	Sound pressure	High / Mid / Low *4)	dBA	23 / 22 / 20	26 / 24 / 21	28 / 26 / 23	32 / 30 / 27	35 / 31 / 26	36 / 34 / 31
Dimensions	Net Weight		kg	19.00	19.00	19.00	19.50	23.50	23.50
	Shipping Weight		kg	23.00	23.00	23.00	23.50	28.00	28.00
	Net Dimensions (WxHxD)		mm	700 x 199 x 600	700 x 199 x 600	700 x 199 x 600	700 x 199 x 600	900 x 199 x 600	900 x 199 x 600
	Shipping Dimensions (WxHxD)		mm	950 x 270 x 710	950 x 270 x 710	950 x 270 x 710	950 x 270 x 710	1150 x 280 x 710	1150 x 280 x 710
Panel Size	Panel Model		-	-	-	-	-	-	-
	Net Weight		kg	-	-	-	-	-	-
	Shipping Weight		kg	-	-	-	-	-	-
	Net Dimensions (WxHxD)		mm	-	-	-	-	-	-
	Shipping Dimensions (WxHxD)		mm	-	-	-	-	-	-
Additional Accessories	Drain Pump	Drain Pump	-	MDP-E075SEE3D	MDP-E075SEE3D	MDP-E075SEE3D	MDP-E075SEE3D	MDP-E075SEE3D	MDP-E075SEE3D
		Max. Lifting Height/ Displacement	mm/liter/h	750 / 24	750 / 24	750 / 24	750 / 24	750 / 24	750 / 24
	Air Filter		-	Long life filter	Long life filter	Long life filter	Long life filter	Long life filter	Long life filter

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

*1) Mode

- HP : Heat Pump, HR : Heat Recovery

*2) Nominal cooling capacities are based on;

- Indoor temperature : 27°C DB, 19°C WB

- Outdoor temperature : 35°C DB, 24°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

*3) Nominal heating capacities are based on;

- Indoor temperature : 20°C DB, 15°C WB

- Outdoor temperature : 7°C DB, 6°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

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

*5) These products contain R410A which is fluorinated greenhouse gas.

Model				AM071FNLDEH***	AM090FNLDEH***	AM112FNLDEH***	AM128FNLDEH***	AM140FNLDEH***
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
Mode*1)			—	HP/HR	HP/HR	HP/HR	HP/HR	HP/HR
Performance	Capacity (Nominal)	Cooling*2)	kW	7.1	9.0	11.2	12.8	14.0
			Btu/h	24,200	30,700	38,200	43,700	47,800
		Heating*3)	kW	8.0	10.0	12.5	13.8	16.0
			Btu/h	27,300	34,100	42,700	47,100	54,600
Power	Power Input (Nominal)	Cooling*2)	W	120	170	170	200	220
		Heating*3)		120	170	170	200	220
	Current Input (Nominal)	Cooling*2)	A	0.60	0.96	0.96	1.28	1.43
		Heating*3)		0.60	0.96	0.96	1.28	1.43
Fan	Motor	Type	—	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan
		Output	W	—	—	—	—	—
		Number of unit	EA	1	1	1	1	1
	Air Flow Rate	H/M/L (UL)	CMM	16.50/15.00/13.50	29.00/27.00/25.00	31.20/29.00/27.00	34.00/32.00/30.00	36.00/34.00/32.00
			l/s	275.00/250.00/225.00	483.33/450.00/416.67	520.00/483.33/450.00	566.67/533.33/500.00	600.00/566.67/533.33
	External Static Pressure	Mid/Std/Max	mmAq	0.00/2.00/4.00	0.00/3.00/6.00	0.00/3.00/6.00	0.00/3.00/6.00	0.00/3.00/6.00
			Pa	0.00/19.61/39.23	0.00/29.42/58.84	0.00/29.42/58.84	0.00/29.42/58.84	0.00/29.42/58.84
			WG	0/0.079/0.157	0/0.118/0.236	0/0.118/0.236	0/0.118/0.236	0/0.118/0.236
Option Code			—	010054-125D9E-204747-331110	010054-1B5AD4-205A5A-331110	010054-1B5AD4-207070-331110	010054-1B5E4B-208080-331110	010054-1B5E7E-208C8C-331110
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
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)
Field Wiring	Power Source Wire	Below 20m/over 20m	mm ²	1.5/2.5	1.5/2.5	1.5/2.5	1.5/2.5	1.5/2.5
	Transmission Cable		mm ²	0.75~1.5	0.75~1.5	0.75~1.5	0.75~1.5	0.75~1.5
Refrigerant	Type		—	R410A	R410A	R410A	R410A	R410A
	Control Method		—	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound	Sound pressure	High / Mid / Low*4)	dBA	38 / 36 / 33	37 / 36 / 34	37 / 36 / 34	37 / 36 / 34	39 / 38 / 36
Dimensions	Net Weight		kg	30.00	44.00	44.00	46.00	46.00
	Shipping Weight		kg	35.00	52.00	52.00	54.00	54.00
	Net Dimensions (WxHxD)		mm	1100 x 199 x 600	1300 x 295 x 690	1300 x 295 x 690	1300 x 295 x 690	1300 x 295 x 690
	Shipping Dimensions (WxHxD)		mm	1350 x 280 x 710	1575 x 370 x 835	1575 x 370 x 835	1575 x 370 x 835	1575 x 370 x 835
Panel Size	Panel Model		—	—	—	—	—	—
	Net Weight		kg	—	—	—	—	—
	Shipping Weight		kg	—	—	—	—	—
	Net Dimensions (WxHxD)		mm	—	—	—	—	—
	Shipping Dimensions (WxHxD)		mm	—	—	—	—	—
Additional Accessories	Drain Pump	Drain Pump	—	MDP-E075SEE3D	MDP-E075SEE3D	MDP-E075SEE3D	MDP-E075SEE3D	MDP-E075SEE3D
		Max. Lifting Height/Displacement	mm/liter/h	750 / 24	750 / 24	750 / 24	750 / 24	750 / 24
	Air Filter		—	Long life filter	Long life filter	Long life filter	Long life filter	Long life filter

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

*1) Mode

- HP : Heat Pump, HR : Heat Recovery

*2) Nominal cooling capacities are based on:

- Indoor temperature : 27°C DB, 19°C WB

- Outdoor temperature : 35°C DB, 24°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

*3) Nominal heating capacities are based on:

- Indoor temperature : 20°C DB, 15°C WB

- Outdoor temperature : 7°C DB, 6°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

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

*5) These products contain R410A which is fluorinated greenhouse gas.

3-2. Capacity tables

1) Cooling

TC : Total Capacity(kW), SHC : Sensible Heat Capacity(kW)

Model	Outdoor temperature (°C, DB)	Indoor temperature (°C, WB)													
		20 (°C, DB) 14 (°C, WB)		23 (°C, DB) 16 (°C, WB)		26 (°C, DB) 18 (°C, WB)		27 (°C, DB) 19 (°C, WB)		28 (°C, DB) 20 (°C, WB)		30 (°C, DB) 22 (°C, WB)		32 (°C, DB) 24 (°C, WB)	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
017	10	1.2	1.0	1.4	1.2	1.6	1.3	1.7	1.3	1.8	1.3	1.9	1.4	2.0	1.2
	12	1.2	1.0	1.4	1.2	1.6	1.3	1.7	1.3	1.8	1.3	1.9	1.4	2.0	1.2
	14	1.2	1.0	1.4	1.2	1.6	1.3	1.7	1.3	1.8	1.3	1.9	1.4	2.0	1.2
	16	1.2	1.0	1.4	1.2	1.6	1.3	1.7	1.3	1.8	1.3	1.9	1.3	2.0	1.2
	18	1.2	1.0	1.4	1.2	1.6	1.3	1.7	1.3	1.8	1.3	1.9	1.3	2.0	1.2
	20	1.2	1.0	1.4	1.2	1.6	1.3	1.7	1.3	1.8	1.3	1.9	1.3	2.0	1.2
	21	1.2	1.0	1.4	1.2	1.6	1.3	1.7	1.3	1.8	1.3	1.9	1.3	2.0	1.2
	23	1.2	1.0	1.4	1.2	1.6	1.3	1.7	1.3	1.8	1.3	1.9	1.3	2.0	1.2
	25	1.2	1.0	1.4	1.2	1.6	1.3	1.7	1.3	1.8	1.3	1.9	1.3	2.0	1.2
	27	1.2	1.0	1.4	1.2	1.6	1.3	1.7	1.3	1.8	1.3	1.9	1.3	2.0	1.2
	29	1.2	1.0	1.4	1.2	1.6	1.3	1.7	1.3	1.8	1.3	1.9	1.3	2.0	1.2
	31	1.2	1.0	1.4	1.2	1.6	1.3	1.7	1.3	1.8	1.3	1.9	1.3	2.0	1.2
	33	1.2	1.0	1.4	1.2	1.6	1.3	1.7	1.3	1.8	1.3	1.9	1.3	2.0	1.2
	35	1.2	1.0	1.4	1.2	1.6	1.3	1.7	1.3	1.8	1.3	1.9	1.3	2.0	1.2
37	1.2	1.0	1.4	1.2	1.6	1.3	1.7	1.3	1.8	1.3	1.9	1.3	2.0	1.2	
39	1.2	1.0	1.4	1.2	1.6	1.3	1.7	1.3	1.8	1.3	1.9	1.3	1.9	1.2	
022	10	1.5	1.2	1.8	1.4	2.1	1.6	2.2	1.6	2.3	1.6	2.5	1.7	2.6	1.5
	12	1.5	1.2	1.8	1.4	2.1	1.6	2.2	1.6	2.3	1.6	2.5	1.7	2.6	1.5
	14	1.5	1.2	1.8	1.4	2.1	1.6	2.2	1.6	2.3	1.6	2.5	1.7	2.6	1.5
	16	1.5	1.2	1.8	1.4	2.1	1.6	2.2	1.6	2.3	1.6	2.4	1.6	2.6	1.5
	18	1.5	1.2	1.8	1.4	2.1	1.6	2.2	1.6	2.3	1.6	2.4	1.6	2.6	1.5
	20	1.5	1.2	1.8	1.4	2.1	1.6	2.2	1.6	2.3	1.6	2.4	1.6	2.6	1.5
	21	1.5	1.2	1.8	1.4	2.1	1.6	2.2	1.6	2.3	1.6	2.4	1.6	2.6	1.5
	23	1.5	1.2	1.8	1.4	2.1	1.6	2.2	1.6	2.3	1.6	2.4	1.6	2.6	1.5
	25	1.5	1.2	1.8	1.4	2.1	1.6	2.2	1.6	2.3	1.6	2.4	1.6	2.6	1.5
	27	1.5	1.2	1.8	1.4	2.1	1.6	2.2	1.6	2.3	1.6	2.4	1.6	2.6	1.5
	29	1.5	1.2	1.8	1.4	2.1	1.6	2.2	1.6	2.3	1.6	2.4	1.6	2.6	1.5
	31	1.5	1.2	1.8	1.4	2.1	1.6	2.2	1.6	2.3	1.6	2.4	1.6	2.6	1.5
	33	1.5	1.2	1.8	1.4	2.1	1.6	2.2	1.6	2.3	1.6	2.4	1.6	2.6	1.5
	35	1.5	1.2	1.8	1.4	2.1	1.6	2.2	1.6	2.3	1.6	2.4	1.6	2.6	1.5
37	1.5	1.2	1.8	1.4	2.1	1.6	2.								

TC : Total Capacity(kW), SHC : Sensible Heat Capacity(kW)

Model	Outdoor temperature (°C, DB)	Indoor temperature (°C, WB)													
		20 (°C, DB)		23 (°C, DB)		26 (°C, DB)		27 (°C, DB)		28 (°C, DB)		30 (°C, DB)		32 (°C, DB)	
		14 (°C, WB)		16 (°C, WB)		18 (°C, WB)		19 (°C, WB)		20 (°C, WB)		22 (°C, WB)		24 (°C, WB)	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
071	10	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	8.0	5.7	8.5	5.4
	12	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	7.9	5.6	8.5	5.4
	14	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	7.9	5.6	8.5	5.4
	16	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	7.9	5.6	8.4	5.3
	18	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	7.9	5.6	8.4	5.3
	20	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	7.9	5.6	8.4	5.3
	21	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	7.9	5.6	8.4	5.3
	23	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	7.9	5.6	8.4	5.3
	25	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	7.9	5.6	8.4	5.3
	27	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	7.9	5.6	8.4	5.3
	29	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	7.9	5.6	8.4	5.3
	31	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	7.9	5.6	8.4	5.3
	33	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	7.9	5.6	8.4	5.3
	35	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	7.9	5.6	8.4	5.3
	37	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.3	5.5	7.8	5.5	8.2	5.2
	39	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.3	5.5	7.7	5.4	8.1	5.1
090	10	6.2	5.5	7.3	6.3	8.4	6.7	9.0	6.9	9.4	7.1	10.1	7.1	10.8	7.1
	12	6.2	5.5	7.3	6.3	8.4	6.7	9.0	6.9	9.4	7.1	10.1	7.1	10.8	7.1
	14	6.2	5.5	7.3	6.3	8.4	6.7	9.0	6.9	9.3	7.0	10.0	7.0	10.7	6.9
	16	6.2	5.5	7.3	6.3	8.4	6.7	9.0	6.9	9.3	7.0	10.0	7.0	10.7	6.9
	18	6.2	5.5	7.3	6.3	8.4	6.7	9.0	6.9	9.3	7.0	10.0	7.0	10.6	6.8
	20	6.2	5.5	7.3	6.3	8.4	6.7	9.0	6.9	9.3	7.0	10.0	7.0	10.6	6.8
	21	6.2	5.5	7.3	6.3	8.4	6.7	9.0	6.9	9.3	7.0	10.0	7.0	10.6	6.8
	23	6.2	5.5	7.3	6.3	8.4	6.7	9.0	6.9	9.3	7.0	10.0	7.0	10.6	6.8
	25	6.2	5.5	7.3	6.3	8.4	6.7	9.0	6.9	9.3	7.0	10.0	7.0	10.6	6.8
	27	6.2	5.5	7.3	6.3	8.4	6.7	9.0	6.9	9.3	7.0	10.0	7.0	10.6	6.8
	29	6.2	5.5	7.3	6.3	8.4	6.7	9.0	6.9	9.3	7.0	10.0	7.0	10.6	6.8
	31	6.2	5.5	7.3	6.3	8.4	6.7	9.0	6.9	9.3	7.0	10.0	7.0	10.6	6.8
	33	6.2	5.5	7.3	6.3	8.4	6.7	9.0	6.9	9.3	7.0	10.0	7.0	10.6	6.8
	35	6.2	5.5	7.3	6.3	8.4	6.7	9.0	6.9	9.3	7.0	10.0	7.0	10.6	6.8
	37	6.2	5.5	7.3	6.3	8.4	6.7	9.0	6.9	9.3	7.0	9.9	6.9	10.4	6.7
	39	6.2	5.5	7.3	6.3	8.4	6.7	9.0	6.9	9.2	6.9	9.7	6.8	10.2	6.6
112	10	7.7	6.8	9.1	7.7	10.5	8.2	11.2	8.6	11.6	8.8	12.5	8.9	13.4	8.6
	12	7.7	6.8	9.1	7.7	10.5	8.2	11.2	8.6	11.6	8.8	12.5	8.9	13.4	8.6
	14	7.7	6.8	9.1	7.7	10.5	8.2	11.2	8.6	11.6	8.8	12.5	8.9	13.4	8.6
	16	7.7	6.8	9.1	7.7	10.5	8.2	11.2	8.6	11.6	8.8	12.5	8.9	13.3	8.5
	18	7.7	6.8	9.1	7.7	10.5	8.2	11.2	8.6	11.6	8.8	12.5	8.9	13.3	8.5
	20	7.7	6.8	9.1	7.7	10.5	8.2	11.2	8.6	11.6	8.8	12.4	8.8	13.2	8.5
	21	7.7	6.8	9.1	7.7	10.5	8.2	11.2	8.6	11.6	8.8	12.4	8.8	13.2	8.5
	23	7.7	6.8	9.1	7.7	10.5	8.2	11.2	8.6	11.6	8.8	12.4	8.8	13.2	8.5
	25	7.7	6.8	9.1	7.7	10.5	8.2	11.2	8.6	11.6	8.8	12.4	8.8	13.2	8.5
	27	7.7	6.8	9.1	7.7	10.5	8.2	11.2	8.6	11.6	8.8	12.4	8.8	13.2	8.5
	29	7.7	6.8	9.1	7.7	10.5	8.2	11.2	8.6	11.6	8.8	12.4	8.8	13.2	8.5
	31	7.7	6.8	9.1	7.7	10.5	8.2	11.2	8.6	11.6	8.8	12.4	8.8	13.2	8.5
	33	7.7	6.8	9.1	7.7	10.5	8.2	11.2	8.6	11.6	8.8	12.4	8.8	13.2	8.5
	35	7.7	6.8	9.1	7.7	10.5	8.2	11.2	8.6	11.6	8.8	12.4	8.7	13.2	8.5
	37	7.7	6.8	9.1	7.7	10.5	8.2	11.2	8.6	11.6	8.8	12.4	8.9	13.2	8.5
	39	7.7	6.8	9.1	7.7	10.5	8.2	11.2	8.6	11.6	8.8	12.3	8.8	13.0	8.4
128	10	8.8	7.7	10.4	8.8	12.0	9.4	12.8	9.8	13.3	9.8	14.3	9.9	15.4	9.8
	12	8.8	7.7	10.4	8.8	12.0	9.4	12.8	9.8	13.3	9.8	14.3	9.9	15.3	9.7
	14	8.8	7.7	10.4	8.8	12.0	9.4	12.8	9.8	13.3	9.8	14.3	9.9	15.3	9.7
	16	8.8	7.7	10.4	8.8	12.0	9.4	12.8	9.8	13.3	9.8	14.2	9.8	15.2	9.7
	18	8.8	7.7	10.4	8.8	12.0	9.4	12.8	9.8	13.3	9.8	14.2	9.8	15.1	9.6
	20	8.8	7.7	10.4	8.8	12.0	9.4	12.8	9.8	13.3	9.8	14.2	9.8	15.1	9.6
	21	8.8	7.7	10.4	8.8	12.0	9.4	12.8	9.8	13.3	9.8	14.2	9.8	15.1	9.6
	23	8.8	7.7	10.4	8.8	12.0	9.4	12.8	9.8	13.3	9.8	14.2	9.8	15.1	9.6
	25	8.8	7.7	10.4	8.8	12.0	9.4	12.8	9.8	13.3	9.8	14.2	9.8	15.1	9.6
	27	8.8	7.7	10.4	8.8	12.0	9.4	12.8	9.8	13.3	9.8	14.2	9.8	15.1	9.6
	29	8.8	7.7	10.4	8.8	12.0	9.4	12.8	9.8	13.3	9.8	14.2	9.8	15.1	9.6
	31	8.8	7.7	10.4	8.8	12.0	9.4	12.8	9.8	13.3	9.8	14.2	9.8	15.1	9.6
	33	8.8	7.7	10.4	8.8	12.0	9.4	12.8	9.8	13.3	9.8	14.2	9.8	15.1	9.6
	35	8.8	7.7	10.4	8.8	12.0	9.4	12.8	9.8	13.3	9.8	14.2	9.8	15.1	9.6
	37	8.8	7.7	10.4	8.8	12.0	9.4	12.8	9.8	13.2	9.8	14.0	9.7	14.9	9.5
	39	8.8	7.7	10.4	8.8	12.0	9.4	12.8	9.8	13.1	9.7	13.8	9.5	14.5	9.3
140	10	9.7	8.5	11.4	9.6	13.1	10.4	14.0	10.7	14.6	10.8	15.7	10.9	16.8	10.8
	12	9.7	8.5	11.4	9.6	13.1	10.4	14.0	10.7	14.5	10.7	15.6	10.8	16.7	10.7
	14	9.7	8.5	11.4	9.6	13.1	10.4	14.0	10.7	14.5	10.7	15.6	10.8	16.7	10.7
	16	9.7	8.5	11.4	9.6	13.1	10.4	14.0	10.7	14.5	10.7	15.6	10.8	16.6	10.6
	18	9.7	8.5	11.4	9.6	13.1	10.4	14.0	10.7	14.5	10.7	15.5	10.7	16.6	10.6
	20	9.7	8.5	11.4	9.6	13.1	10.4	14.0	10.7	14.5	10.7	15.5	10.7	16.5	10.5
	21	9.7	8.5	11.4	9.6	13.1	10.4	14.0	10.7	14.5	10.7	15.5	10.7	16.5	10.5
	23	9.7	8.5	11.4	9.6	13.1	10.4	14.0	10.7	14.5	10.7	15.5	10.7	16.5	10.5
	25	9.7	8.5	11.4	9.6	13.1	10.4	14.0	10.7	14.5	10.7	15.5	10.7	16.5	10.5
	27	9.7	8.5	11.4	9.6	13.1	10.4	14.0	10.7	14.5	10.7	15.5	10.7	16.5	10.5
	29	9.7	8.5	11.4	9.6	13.1	10.4	14.0	10.7	14.5	10.7	15.5	10.7	16.5	10.5
	31	9.7	8.5	11.4	9.6	13.1	10.4	14.0	10.7	14.5	10.7	15.5	10.7	16.5	10.5
	33	9.7	8.5	11.4	9.6	13.1	10.4	14.0	10.7	14.5	10.7	15.5	10.7	16.5	10.5
	35	9.7	8.5	11.4	9.6	13.1	10.4	14.0	10.7	14.5	10.7	15.5	10.7	16.5	10.5
	37	9.7	8.5	11.4	9.6	13.1	10.4	14.0	10.7	14.5	10.7	15.4	10.6	16.3	10.4
	39	9.7	8.5	11.4	9.6	13.1	10.4	14.0	10.7	14.4	10.6	15.1	10.4	15.9	10.2

3-2. Capacity tables

2) Heating

TC : Total Capacity(kW)

Model	Outdoor temperature (°C)		Indoor temperature (°C, DB)				
			16.0	18.0	20.0	22.0	24.0
	DB	WB	TC kW	TC kW	TC kW	TC kW	TC kW
017	-20	-21	1.1	1.1	1.1	1.1	1.1
	-17	-18	1.2	1.2	1.2	1.2	1.2
	-15	-16	1.3	1.2	1.2	1.2	1.2
	-12	-13	1.4	1.4	1.4	1.4	1.3
	-10	-11	1.5	1.5	1.4	1.4	1.4
	-7	-8	1.8	1.7	1.7	1.5	1.5
	-5	-6	1.8	1.8	1.8	1.7	1.7
	-3	-4	1.9	1.9	1.8	1.8	1.7
	0	-1	2.0	1.9	1.9	1.8	1.7
	3	2.2	2.0	2.0	1.9	1.8	1.7
	5	4.1	2.1	2.0	1.9	1.8	1.7
	7	6	2.1	2.0	1.9	1.8	1.7
	9	7.9	2.3	2.0	1.9	1.8	1.7
	11	9.8	2.3	2.0	1.9	1.8	1.7
	13	12	2.3	2.0	1.9	1.8	1.7
	15	14	2.3	2.0	1.9	1.8	1.7
022	-20	-21	1.5	1.5	1.5	1.5	1.5
	-17	-18	1.6	1.6	1.6	1.6	1.6
	-15	-16	1.7	1.6	1.6	1.6	1.6
	-12	-13	1.8	1.8	1.8	1.8	1.7
	-10	-11	2.0	2.0	1.9	1.9	1.9
	-7	-8	2.3	2.2	2.2	2.0	2.0
	-5	-6	2.4	2.3	2.3	2.2	2.2
	-3	-4	2.5	2.5	2.4	2.3	2.2
	0	-1	2.6	2.5	2.5	2.3	2.2
	3	2.2	2.7	2.6	2.5	2.3	2.2
	5	4.1	2.8	2.7	2.5	2.3	2.2
	7	6	2.8	2.7	2.5	2.3	2.2
	9	7.9	3.0	2.7	2.5	2.3	2.2
	11	9.8	3.0	2.7	2.5	2.3	2.2
	13	12	3.0	2.7	2.5	2.3	2.2
	15	14	3.0	2.7	2.5	2.3	2.2
028	-20	-21	1.9	1.9	1.9	1.9	1.9
	-17	-18	2.0	2.0	2.0	2.0	1.9
	-15	-16	2.1	2.1	2.0	2.0	1.9
	-12	-13	2.2	2.2	2.2	2.1	2.1
	-10	-11	2.3	2.3	2.3	2.3	2.2
	-7	-8	2.5	2.4	2.4	2.4	2.3
	-5	-6	2.6	2.6	2.5	2.5	2.4
	-3	-4	2.8	2.7	2.7	2.6	2.5
	0	-1	2.9	2.8	2.8	2.7	2.6
	3	2.2	3.0	3.0	2.9	2.8	2.7
	5	4.1	3.2	3.1	3.1	2.9	2.7
	7	6	3.3	3.2	3.2	3.0	2.7
	9	7.9	3.4	3.3	3.2	3.0	2.7
	11	9.8	3.5	3.3	3.2	3.0	2.7
	13	12	3.6	3.4	3.2	3.0	2.7
	15	14	3.7	3.4	3.2	3.0	2.7
036	-20	-21	2.4	2.4	2.3	2.3	2.3
	-17	-18	2.6	2.5	2.4	2.4	2.3
	-15	-16	2.7	2.6	2.5	2.5	2.4
	-12	-13	2.8	2.7	2.7	2.6	2.6
	-10	-11	2.9	2.9	2.9	2.8	2.8
	-7	-8	3.1	3.1	3.0	3.0	2.9
	-5	-6	3.3	3.2	3.2	3.1	3.0
	-3	-4	3.4	3.4	3.3	3.2	3.1
	0	-1	3.6	3.6	3.5	3.4	3.2
	3	2.2	3.8	3.7	3.7	3.5	3.4
	5	4.1	3.9	3.9	3.8	3.6	3.4
	7	6	4.1	4.1	4.0	3.7	3.4
	9	7.9	4.2	4.1	4.0	3.7	3.4
	11	9.8	4.4	4.2	4.0	3.7	3.4
	13	12	4.5	4.2	4.0	3.7	3.4
	15	14	4.6	4.3	4.0	3.7	3.4
045	-20	-21	3.1	3.1	2.9	2.9	2.9
	-17	-18	3.2	3.2	3.1	3.0	3.0
	-15	-16	3.3	3.3	3.2	3.1	3.0
	-12	-13	3.5	3.4	3.4	3.3	3.2
	-10	-11	3.7	3.6	3.6	3.5	3.5
	-7	-8	3.9	3.8	3.8	3.7	3.6
	-5	-6	4.1	4.0	4.0	3.9	3.7
	-3	-4	4.3	4.2	4.2	4.0	3.9
	0	-1	4.5	4.4	4.4	4.2	4.0
	3	2.2	4.7	4.7	4.6	4.4	4.2
	5	4.1	4.9	4.9	4.8	4.5	4.2
	7	6	5.1	5.1	5.0	4.6	4.2
	9	7.9	5.3	5.2	5.0	4.6	4.2
	11	9.8	5.5	5.2	5.0	4.6	4.2
	13	12	5.6	5.3	5.0	4.6	4.2
	15	14	5.8	5.4	5.0	4.6	4.2
056	-20	-21	3.9	3.8	3.8	3.7	3.7
	-17	-18	4.0	4.0	3.9	3.8	3.8
	-15	-16	4.2	4.1	4.0	3.9	3.8
	-12	-13	4.4	4.3	4.2	4.2	4.1
	-10	-11	4.6	4.6	4.5	4.4	4.4
	-7	-8	4.9	4.8	4.8	4.7	4.5
	-5	-6	5.2	5.1	5.0	4.9	4.7
	-3	-4	5.4	5.3	5.3	5.1	4.9
	0	-1	5.7	5.6	5.5	5.3	5.0
	3	2.2	5.9	5.9	5.8	5.6	5.3
	5	4.1	6.2	6.1	6.0	5.7	5.3
	7	6	6.5	6.4	6.3	5.8	5.3
	9	7.9	6.7	6.5	6.3	5.8	5.3
	11	9.8	6.9	6.6	6.3	5.8	5.3
	13	12	7.1	6.7	6.3	5.8	5.3
	15	14	7.3	6.8	6.3	5.8	5.3

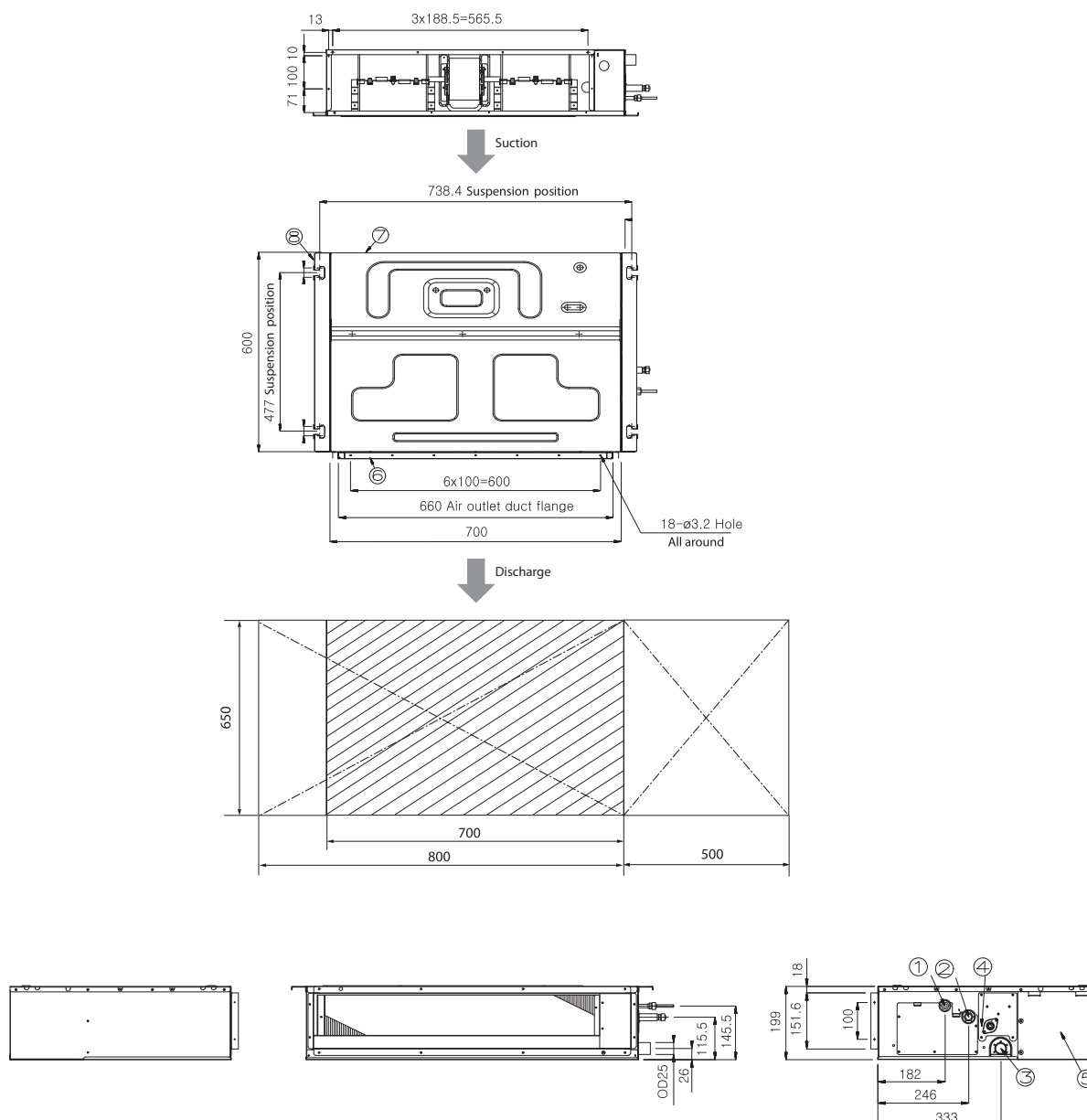
TC : Total Capacity(kW)

Model	Outdoor temperature (°C)		Indoor temperature (°C, DB)				
			16.0	18.0	20.0	22.0	24.0
	DB	WB	TC kW	TC kW	TC kW	TC kW	TC kW
071	-20	-21	4.9	4.9	4.8	4.7	4.7
	-17	-18	5.1	5.0	4.9	4.8	4.8
	-15	-16	5.3	5.2	5.1	4.9	4.8
	-12	-13	5.6	5.5	5.4	5.3	5.2
	-10	-11	5.9	5.8	5.7	5.6	5.6
	-7	-8	6.2	6.1	6.0	5.9	5.8
	-5	-6	6.5	6.5	6.4	6.2	6.0
	-3	-4	6.9	6.8	6.7	6.4	6.2
	0	-1	7.2	7.1	7.0	6.7	6.4
	3	2.2	7.6	7.5	7.3	7.1	6.8
	5	4.1	7.9	7.8	7.7	7.2	6.8
	7	6	8.2	8.1	8.0	7.4	6.8
	9	7.9	8.5	8.2	8.0	7.4	6.8
	11	9.8	8.7	8.4	8.0	7.4	6.8
	13	12	9.0	8.5	8.0	7.4	6.8
	15	14	9.2	8.6	8.0	7.4	6.8
090	-20	-21	6.0	6.0	5.9	5.8	5.8
	-17	-18	6.3	6.3	6.1	6.0	5.9
	-15	-16	6.7	6.5	6.3	6.1	6.0
	-12	-13	7.0	6.9	6.7	6.6	6.5
	-10	-11	7.3	7.2	7.1	7.0	7.0
	-7	-8	7.8	7.7	7.6	7.4	7.2
	-5	-6	8.2	8.1	8.0	7.7	7.5
	-3	-4	8.6	8.5	8.4	8.1	7.7
	0	-1	9.0	8.9	8.8	8.4	8.0
	3	2.2	9.4	9.3	9.2	8.8	8.4
	5	4.1	9.9	9.7	9.6	9.0	8.4
	7	6	10.3	10.1	10.0	9.2	8.4
	9	7.9	10.6	10.3	10.0	9.2	8.4
	11	9.8	10.9	10.5	10.0	9.2	8.4
	13	12	11.2	10.6	10.0	9.2	8.4
	15	14	11.6	10.8	10.0	9.2	8.4
112	-20	-21	7.4	7.4	7.3	7.3	7.3
	-17	-18	8.0	7.8	7.6	7.5	7.4
	-15	-16	8.4	8.1	7.9	7.7	7.5
	-12	-13	8.8	8.6	8.4	8.2	8.1
	-10	-11	9.2	9.0	8.9	8.8	8.7
	-7	-8	9.7	9.6	9.4	9.2	9.0
	-5	-6	10.2	10.1	9.9	9.6	9.3
	-3	-4	10.7	10.6	10.5	10.1	9.7
	0	-1	11.3	11.1	11.1	10.5	10.0
	3	2.2	11.8	11.6	11.5	11.0	10.6
	5	4.1	12.3	12.2	12.0	11.3	10.6
	7	6	12.9	12.7	12.5	11.5	10.6
	9	7.9	13.3	12.9	12.5	11.5	10.6
	11	9.8	13.7	13.1	12.5	11.5	10.6
	13	12	14.0	13.3	12.5	11.5	10.6
	15	14	14.4	13.5	12.5	11.5	10.6
128	-20	-21	8.1	8.1	8.0	8.0	8.0
	-17	-18	8.7	8.5	8.4	8.3	8.1
	-15	-16	9.2	9.0	8.7	8.5	8.2
	-12	-13	9.7	9.5	9.3	9.1	8.9
	-10	-11	10.1	10.0	9.9	9.7	9.6
	-7	-8	10.7	10.6	10.4	10.2	10.0
	-5	-6	11.3	11.1	11.0	10.7	10.3
	-3	-4	11.9	11.7	11.5	11.1	10.7
	0	-1	12.4	12.3	12.1	11.6	11.0
	3	2.2	13.0	12.9	12.7	12.2	11.7
	5	4.1	13.6	13.4	13.2	12.4	11.7
	7	6	14.2	14.0	13.8	12.7	11.7
	9	7.9	14.6	14.2	13.8	12.7	11.7
	11	9.8	15.1	14.4	13.8	12.7	11.7
	13	12	15.5	14.7	13.8	12.7	11.7
	15	14	15.9	14.9	13.8	12.7	11.7
140	-20	-21	9.5	9.5	9.4	9.4	9.3
	-17	-18	10.1	9.9	9.6	9.6	9.4
	-15	-16	10.7	10.4	10.1	9.8	9.5
	-12	-13	11.2	11.0	10.8	10.6	10.3
	-10	-11	11.7	11.6	11.4	11.3	11.1
	-7	-8	12.4	12.2	12.1	11.8	11.5
	-5	-6	13.1	12.9	12.7	12.3	12.0
	-3	-4	13.8	13.6	13.4	12.9	12.4
	0	-1	14.4	14.2	14.0	13.4	12.8
	3	2.2	15.1	14.9	14.7	14.1	13.5
	5	4.1	15.8	15.6	15.3	14.4	13.5
	7	6	16.5	16.2	16.0	14.8	13.5
	9	7.9	17.0	16.5	16.0	14.8	13.5
	11	9.8	17.5	16.7	16.0	14.8	13.5
	13	12	18.0	17.0	16.0	14.8	13.5
	15	14	18.5	17.2	16.0	14.8	13.5

3-3. Dimensional drawing

1) AM017/AM022/028/036FNLDEH***

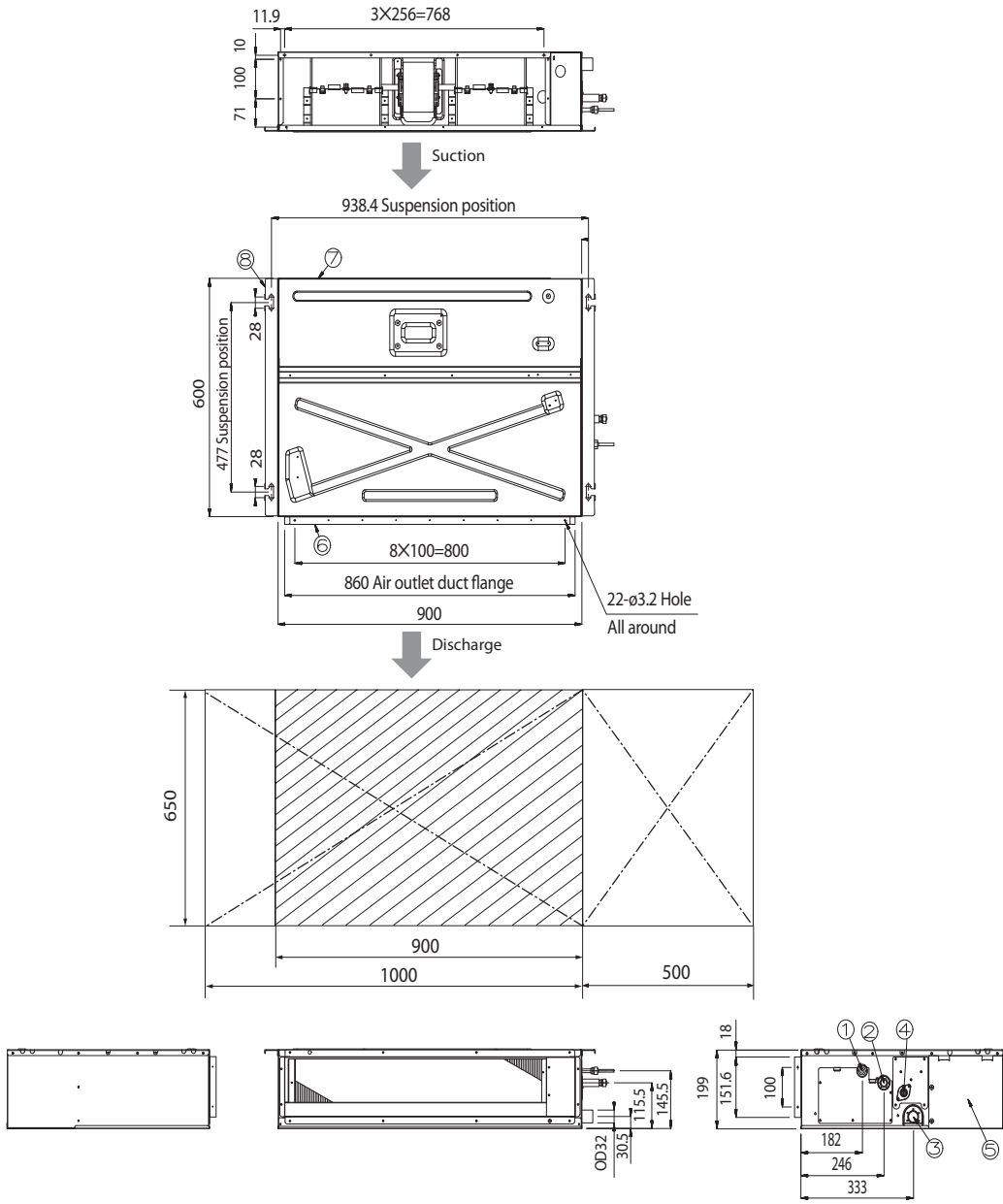
Unit:mm



No.	Name	Description			
		1.7kW	2.2kW	2.8kW	3.6kW
①	Liquid pipe connection	Ø6.35 Flare			
②	Gas pipe connection	Ø12.70 Flare			
③	Drain pipe connection without optional drain pump kits	VP25 (OD 32, ID 25)			
④	Drain pipe connection with optional drain pump kits	VP25 (OD 32, ID 25)			
⑤	Power supply/Communication connection	-			
⑥	Power supply connection	-			
⑦	Air discharge grille flange	-			
⑧	Hook	3/8" or M10			

2) AM045/056FNLDEH***

Unit:mm

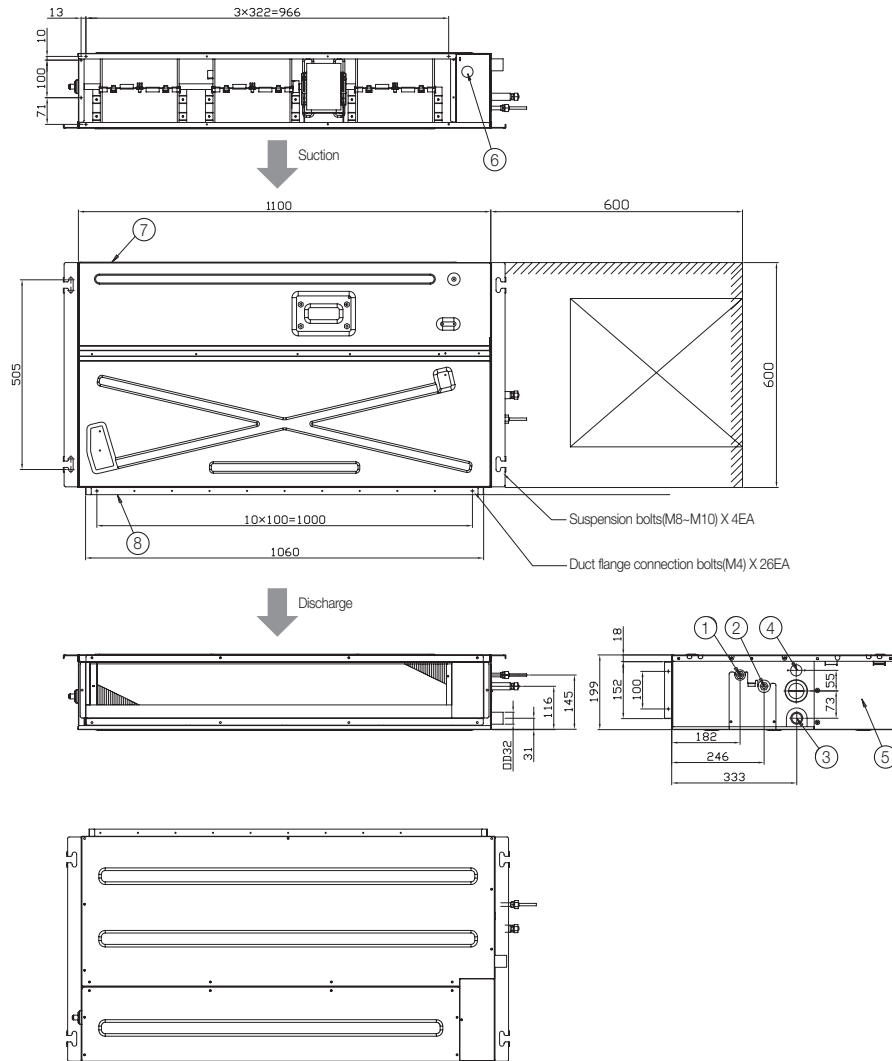


No.	Name	Description	
		4.5kW	5.6kW
①	Liquid pipe connection	Ø6.35 Flare	
②	Gas pipe connection	Ø12.70 Flare	
③	Drain pipe connection without optional drain pump kits	VP25 (OD 32, ID 25)	
④	Drain pipe connection with optional drain pump kits	VP25 (OD 32, ID 25)	
⑤	Control unit	-	
⑥	Conduit for power supply & communication wiring	-	
⑦	Return air side	-	
⑧	Air outlet duct flange	-	

3-3. Dimensional drawing

3) AM071FNLDEH***

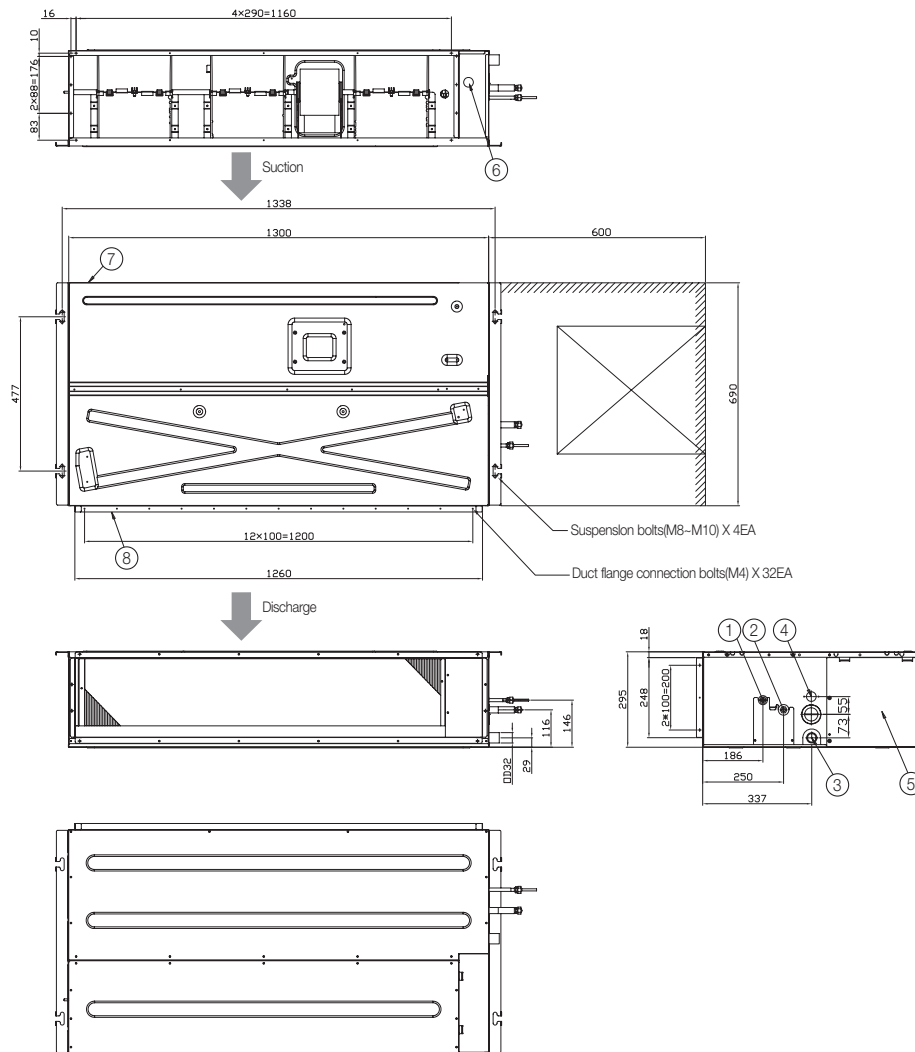
Unit:mm



No.	Name	Description
		7.1kW
①	Liquid pipe connection	Ø9.52 Flare
②	Gas pipe connection	Ø15.88 Flare
③	Drain pipe connection without optional drain pump kits	VP25 (OD 32, ID 25)
④	Drain pipe connection with optional drain pump kits	VP25 (OD 32, ID 25)
⑤	Control unit	
⑥	Conduit for power supply & communication wiring	
⑦	Return air side	
⑧	Air outlet duct flange	

4) AM090/112/128/140FNLDEH***

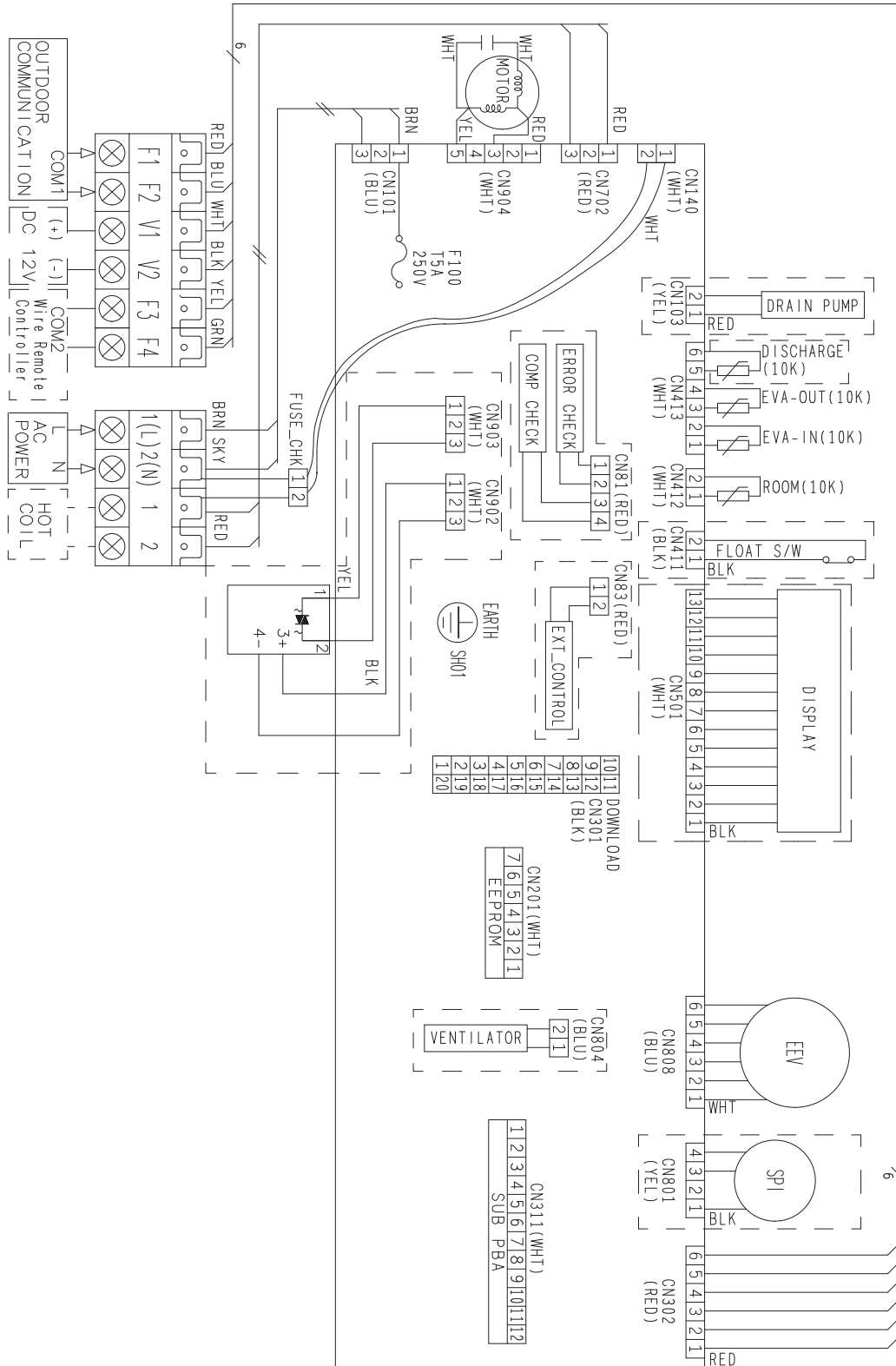
Unit:mm



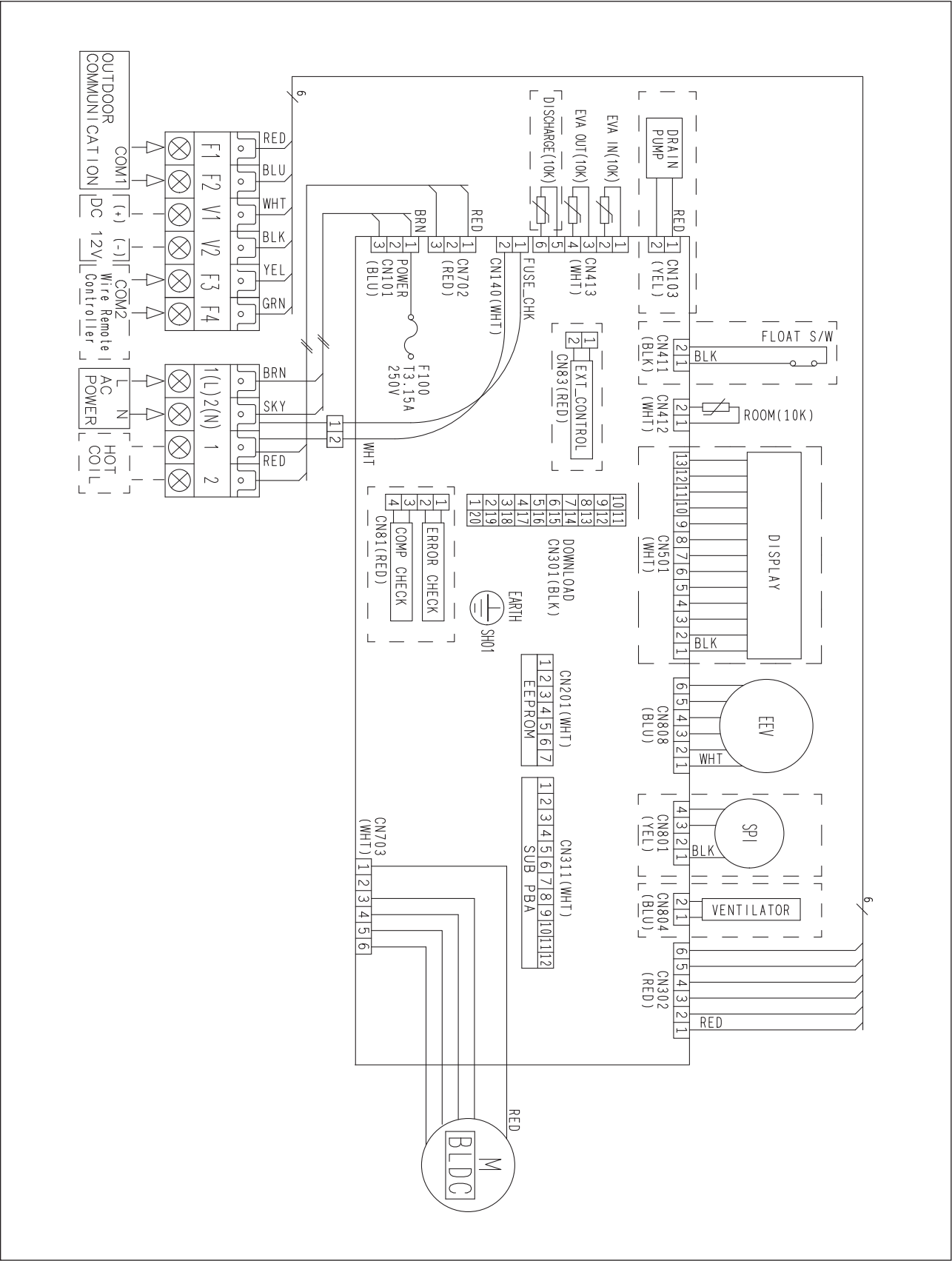
No.	Name	Description			
		9.0kW	11.2kW	12.8kW	14.0kW
①	Liquid pipe connection	Ø9.52 Flare			
②	Gas pipe connection	Ø15.88 Flare			
③	Drain pipe connection without optional drain pump kits	VP25 (OD 32, ID 25)			
④	Drain pipe connection with optional drain pump kits	VP25 (OD 32, ID 25)			
⑤	Control unit	-			
⑥	Conduit for power supply & communication wiring	-			
⑦	Return air side	-			
⑧	Air outlet duct flange	-			

3-4. Electrical wiring diagram

1) AM017/AM022/028/036/045/056/071FNLDEH***

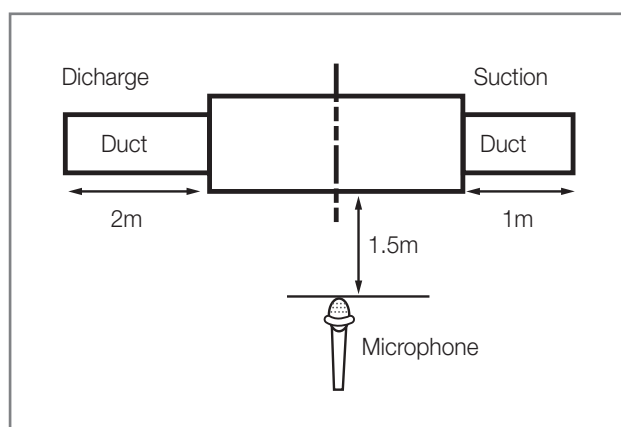


2) AM090/112/128/140FNLDEH***



3-5. Sound pressure level

1) Operation sound level



Unit : dB(A)

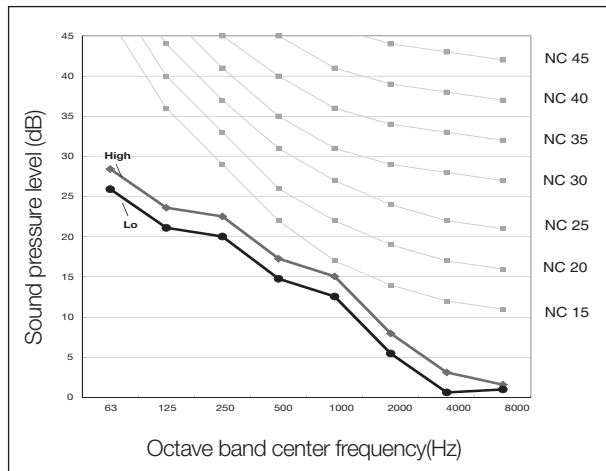
Model	High	Low
AM017FNLDEH***	21	19
AM022FNLDEH***	26	21
AM028FNLDEH***	28	23
AM036FNLDEH***	32	27
AM045FNLDEH***	35	26
AM056FNLDEH***	36	31
AM071FNLDEH***	38	33
AM090FNLDEH***	37	34
AM112FNLDEH***	37	34
AM128FNLDEH***	37	34
AM140FNLDEH***	39	36

☒ **Note**

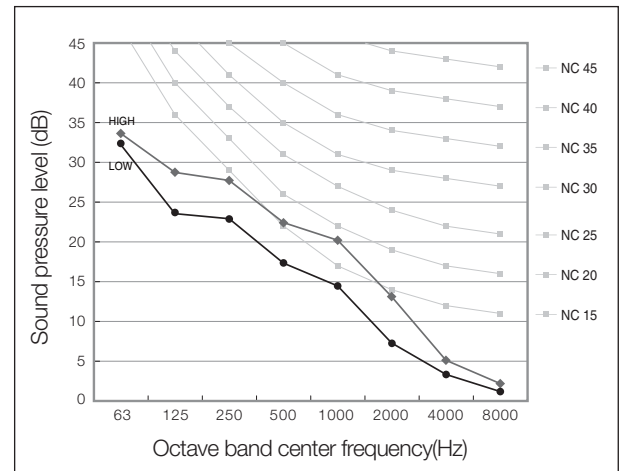
- ◆ These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- ◆ Operation sound level may differ depending on operation and ambient conditions.

2) NC curves

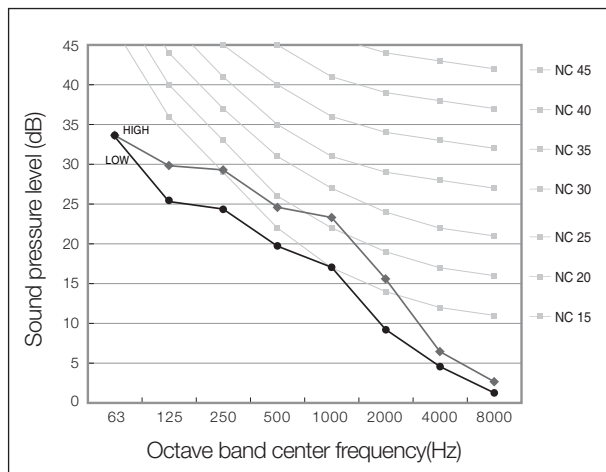
(1) AM017FNLDEH***



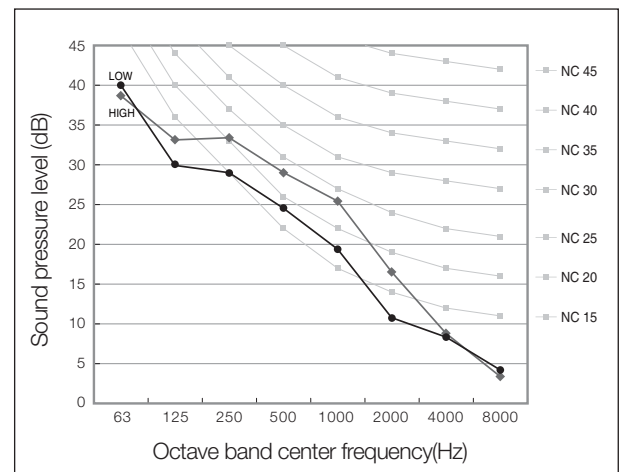
(2) AM022FNLDEH***



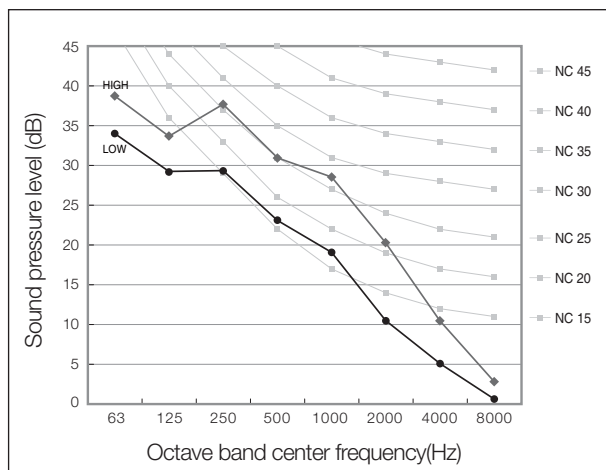
(3) AM028FNLDEH***



(4) AM036FNLDEH***

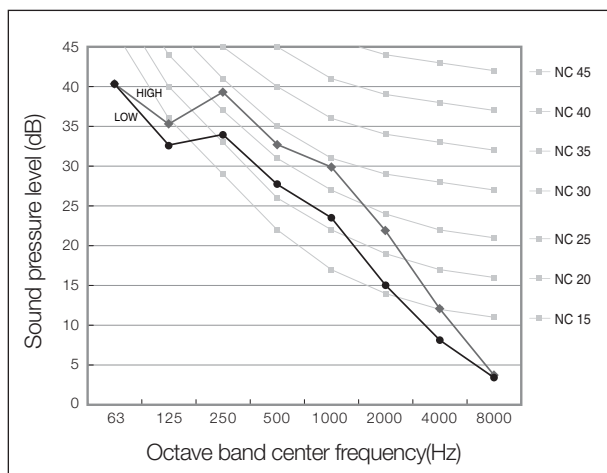


(5) AM045FNLDEH***

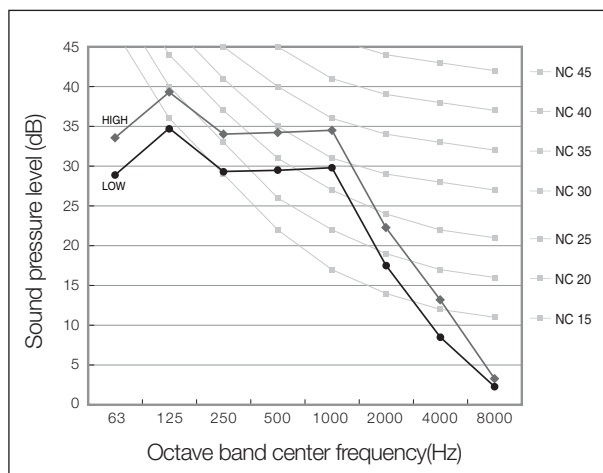


3-5. Sound pressure level

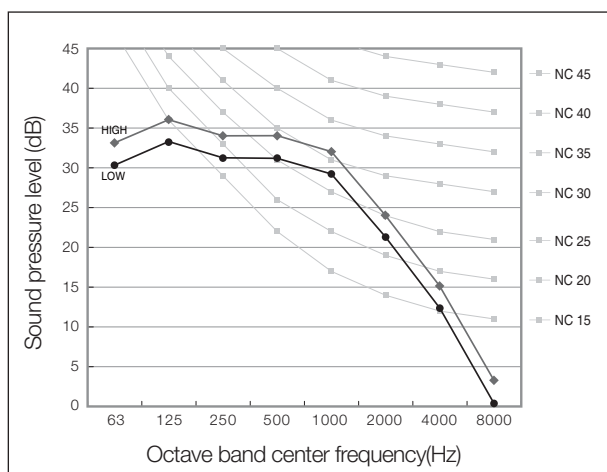
(5) AM056FNLDEH***



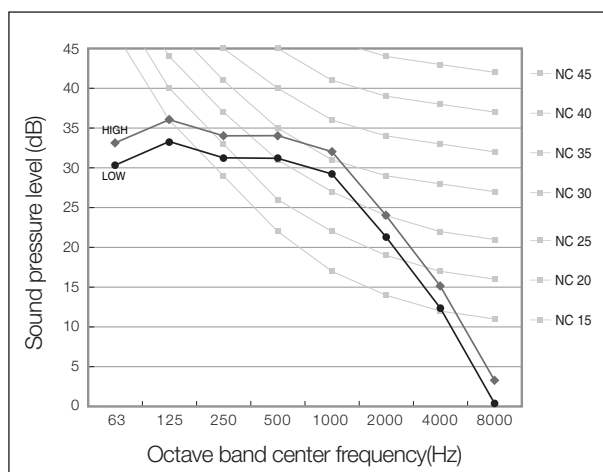
(6) AM071FNLDEH***



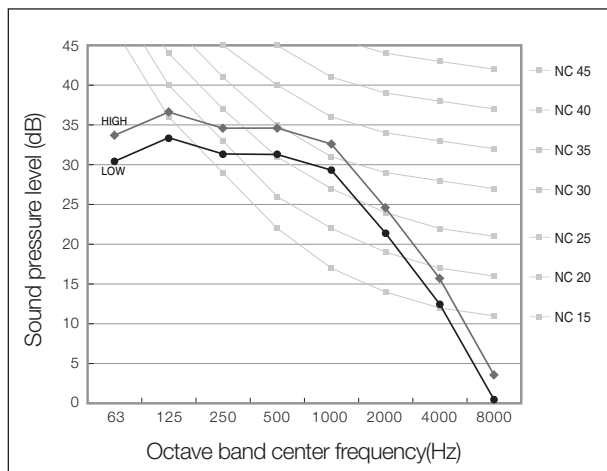
(7) AM090FNLDEH***



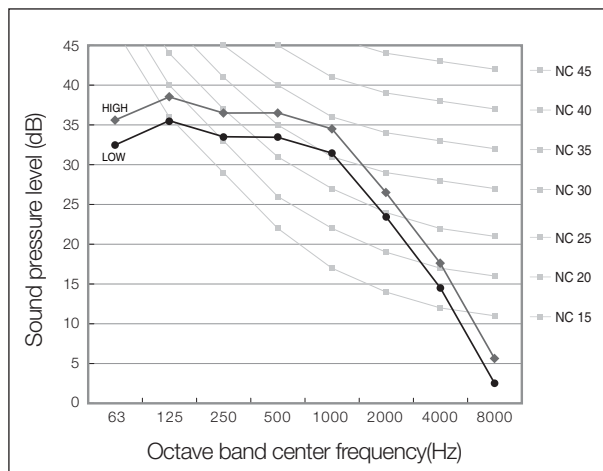
(8) AM112FNLDEH***



(9) AM128FNLDEH***



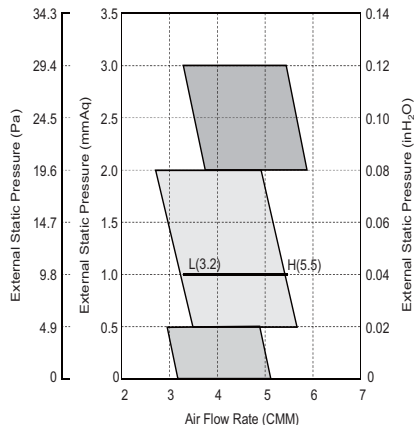
(10) AM140FNLDEH***



3-6. Recommended operation range

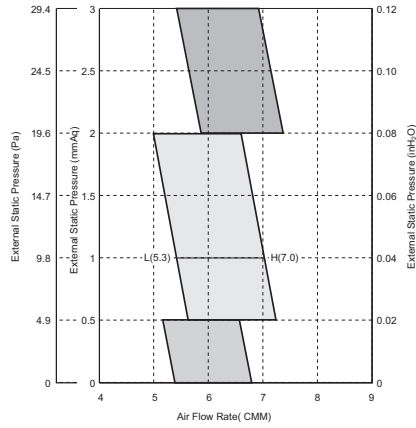
◆ Adjust option code according to the actual installation condition (external static pressure).

(0) AM017FNLDEH/EU



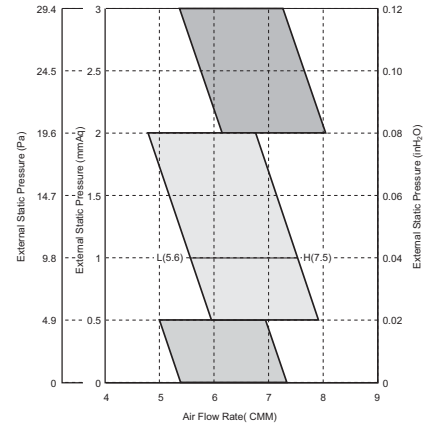
External Static pressure (mmAq)	Option code
0	010054-12549E-201111-331110
1	010054-1255B1-201111-331110
3	010054-1255F5-201111-331110

(1) AM022FNLDEH***



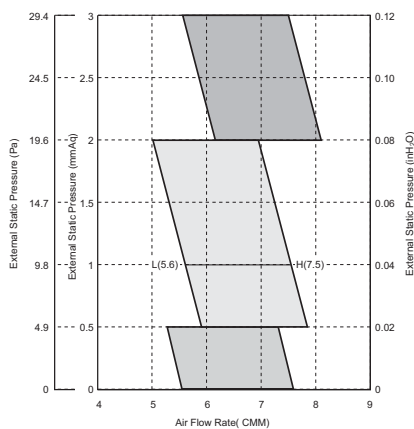
External Static pressure (mmAq)	Option code
0	010054-125A80-201616-331110
1	010054-125AC3-201616-331110
3	010054-125E08-201616-331110

(2) AM028FNLDEH***



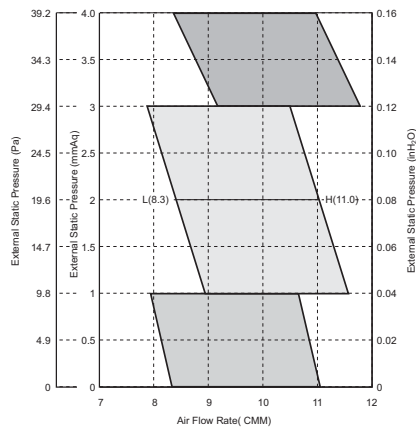
External Static pressure (mmAq)	Option code
0	010054-125AE2-201C1C-331110
1	010054-125E15-201C1C-331110
3	010054-125E7A-201C1C-331110

(3) AM036FNLDEH***



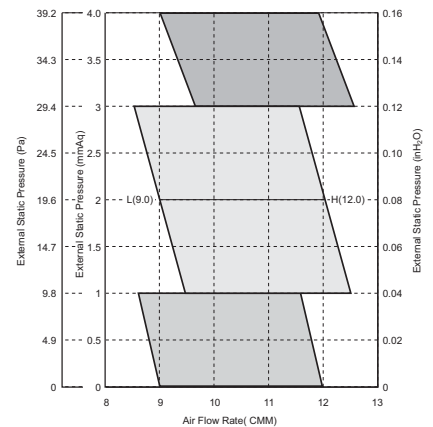
External Static pressure (mmAq)	Option code
0	010054-125E35-202424-331110
1	010054-125E68-202424-331110
3	010054-125ECD-202424-331110

(4) AM045FNLDEH***



External Static pressure (mmAq)	Option code
0	010054-12599F-202D2D-331110
2	010054-125AE2-202D2D-331110
4	010054-125EF6-202D2D-331110

(5) AM056FNLDEH***



External Static pressure (mmAq)	Option code
0	010054-125AC1-203838-331110
2	010054-125E34-203838-331110
4	010054-125EF9-203838-331110

✓ Note

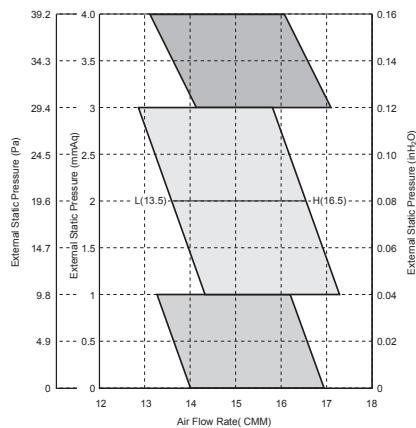
◆ ESP = External Static Pressure

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

3 Slim duct

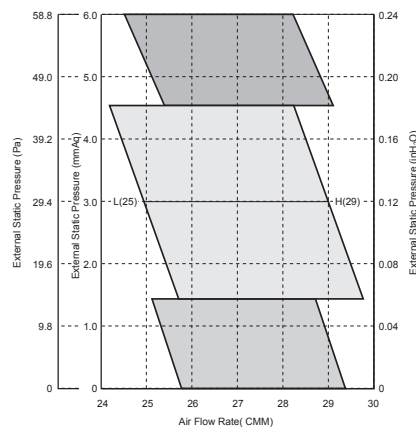
3-6. Recommended operation range

(6) AM071FNLDEH***



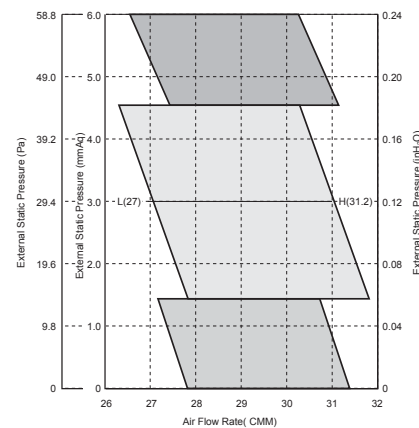
External Static pressure (mmAq)	Option code
0	010054-1259BB-204747-331110
2	010054-125D9E-204747-331110
4	010054-125EF4-204747-331110

(7) AM090FNLDEH***



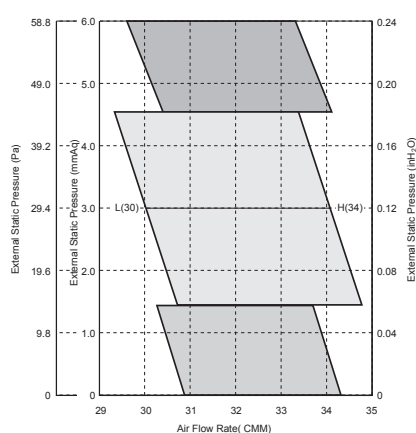
External Static pressure (mmAq)	Option code
0	010054-1B596C-205A5A-331110
3	010054-1B5AD4-205A5A-331110
6	010054-1B5E2A-205A5A-331110

(8) AM112FNLDEH***



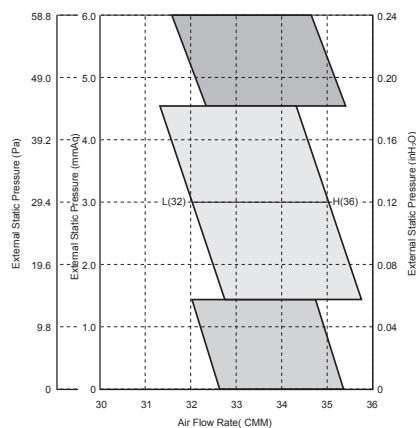
External Static pressure (mmAq)	Option code
0	010054-1B596C-207070-331110
3	010054-1B5AD4-207070-331110
6	010054-1B5E2A-207070-331110

(9) AM128FNLDEH***



External Static pressure (mmAq)	Option code
0	010054-1B5AF5-208080-331110
3	010054-1B5E4B-208080-331110
6	010054-1B5E8F-208080-331110

(10) AM140FNLDEH***



External Static pressure (mmAq)	Option code
0	010054-1B5E34-208C8C-331110
3	010054-1B5E73-208C8C-331110
6	010054-1B5FC3-208C8C-331110



Note

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



4 MSP(Middle static pressure) duct (AM***FNMDEH***)

- 4-1. Specifications.....
- 4-2 Capacity tables.....
- 4-3 Dimensional drawing.....
- 4-4 Electrical wiring diagram.....
- 4-5 Sound pressure level.....
- 4-6 Recommended operation range.....

4-1. Specifications

1) Technical specifications

Model				AM022FNMDEH***	AM028FNMDEH***	AM036FNMDEH***	AM045FNMDEH***	AM056FNMDEH***
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
Mode *1)			-	HP/HR	HP/HR	HP/HR	HP/HR	HP/HR
Performance	Capacity (Nominal)	Cooling*2)	kW	2.2	2.8	3.6	4.5	5.6
			Btu/h	7,500	9,600	12,300	15,400	19,100
		Heating*3)	kW	2.5	3.2	4.0	5.0	6.3
			Btu/h	8,500	10,900	13,600	17,100	21,500
Power	Power Input (Nominal)	Cooling*2)	W	80	80	85	125	130
		Heating*3)		80	80	85	125	130
	Current Input (Nominal)	Cooling*2)	A	0.40	0.40	0.55	1.15	1.10
		Heating*3)		0.40	0.40	0.55	1.15	1.10
Fan	Motor	Type	-	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan
		Output	W	69	69	112	219	124
		Number of unit	EA	1	1	1	1	1
	Air Flow Rate	H/M/L (UL)	CMM	8.50/7.50/6.30	10.00/9.20/7.50	12.00/10.20/8.80	14.00/12.00/10.50	14.50/13.00/11.50
			l/s	141.67/125.00/105.00	166.67/153.33/125.00	200.00/170.00/146.67	233.33/200.00/175.00	241.67/216.67/191.67
	External Static Pressure	Mid/Std/Max	mmAq	0.00/2.00/6.00	0.00/2.00/6.00	0.00/2.00/6.00	0.00/4.00/8.00	0.00/4.00/8.00
			Pa	0.00/19.61/58.84	0.00/19.61/58.84	0.00/19.61/58.84	0.00/39.23/78.45	0.00/39.23/78.45
			WG	0/0.079/0.236	0/0.079/0.236	0/0.079/0.236	0/0.157/0.314	0/0.157/0.314
Option Code			-	010054-1350EA-201616-331110	010054-13542C-201C1C-331110	010054-1350FB-202424-331110	010054-125583-202D2D-331110	010054-1255C5-203838-331110
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	12.70	12.70	12.70	12.70	12.70	
		Ø, inch	1/2	1/2	1/2	1/2	1/2	
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)
Field Wiring	Power Source Wire	Below 20m/over 20m	mm ²	1.5/2.5	1.5/2.5	1.5/2.5	1.5/2.5	1.5/2.5
	Transmission Cable		mm ²	0.75~1.5	0.75~1.5	0.75~1.5	0.75~1.5	0.75~1.5
Refrigerant	Type		-	R410A	R410A	R410A	R410A	R410A
	Control Method		-	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound	Sound pressure	High / Mid / Low*4)	dBA	23 / 21 / 19	24 / 22 / 19	29 / 27 / 24	32 / 30 / 28	35 / 33 / 31
Dimensions	Net Weight		kg	23.50	23.50	23.50	29.00	29.00
	Shipping Weight		kg	28.00	28.00	28.00	33.00	33.00
	Net Dimensions (WxHxD)		mm	900 x 199 x 600	900 x 199 x 600	900 x 199 x 600	900 x 260 x 480	900 x 260 x 480
	Shipping Dimensions (WxHxD)		mm	1150 x 280 x 710	1150 x 280 x 710	1150 x 280 x 710	1170 x 340 x 595	1170 x 340 x 595
Panel Size	Panel Model		-	-	-	-	-	-
	Net Weight		kg	-	-	-	-	-
	Shipping Weight		kg	-	-	-	-	-
	Net Dimensions (WxHxD)		mm	-	-	-	-	-
	Shipping Dimensions (WxHxD)		mm	-	-	-	-	-
Additional Accessories	Drain Pump	Drain Pump	-	MDP-E075SEE3D	MDP-E075SEE3D	MDP-E075SEE3D	MDP-M075SGU3D	MDP-M075SGU3D
		Max. Lifting Height/Displacement	mm/liter/h	750 / 24	750 / 24	750 / 24	750 / 24	750 / 24
	Air Filter		-	Long life filter	Long life filter	Long life filter	Long life filter	Long life filter

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

*1) Mode

— HP : Heat Pump, HR : Heat Recovery

*2) Nominal cooling capacities are based on:

— Indoor temperature : 27°C DB, 19°C WB

— Outdoor temperature : 35°C DB, 24°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

*3) Nominal heating capacities are based on:

— Indoor temperature : 20°C DB, 15°C WB

— Outdoor temperature : 7°C DB, 6°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

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

*5) These products contain R410A which is fluorinated greenhouse gas.

Model				AM071FNMDEH***	AM090FNMDEH***	AM112FNMDEH***	AM128FNMDEH***	AM140FNMDEH***
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
Mode*1)			–	HP/HR	HP/HR	HP/HR	HP/HR	HP/HR
Performance	Capacity (Nominal)	Cooling*2)	kW	7.1	9.0	11.2	12.8	14.0
			Btu/h	24,200	30,700	38,200	43,700	47,800
		Heating*3)	kW	8.0	10.0	12.5	13.8	16.0
			Btu/h	27,300	34,100	42,700	47,100	54,600
Power	Power Input (Nominal)	Cooling*2)	W	190	240	260	370	410
		Heating*3)		190	240	260	370	410
	Current Input (Nominal)	Cooling*2)	A	1.25	1.30	1.17	1.67	1.86
		Heating*3)		1.25	1.30	1.17	1.67	1.86
Fan	Motor	Type	–	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan
		Output	W	124	130	130	218	218
		Number of unit	EA	1	1	1	1	1
	Air Flow Rate	H/M/L (UL)	CMM	18.50/17.00/15.50	19.50/18.00/16.50	27.00/25.00/23.00	32.00/30.00/28.00	37.00/34.00/31.00
			l/s	308.33/283.33/258.33	325.00/300.00/275.00	450.00/416.67/383.33	533.33/500.00/466.67	616.67/566.67/516.67
	External Static Pressure	Mid/Std/Max	mmAq	0.00/4.00/8.00	4.00/6.00/8.00	4.00/8.00/12.00	4.00/8.00/14.00	4.00/8.00/14.00
			Pa	0.00/39.23/78.45	39.23/58.84/78.45	39.23/78.45/117.68	39.23/78.45/137.29	39.23/78.45/137.29
			WG	0/0.157/0.314	0.157/0.236/0.315	0.236/0.314/0.472	0.236/0.314/0.553	0.236/0.314/0.553
Option Code			–	010054-125979-204747-331110	010054-125D29-205A5A-331110	010054-122EBB-207070-331110	010054-122AE3-208080-331110	010054-122E57-208C8C-331110
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	
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)
Field Wiring	Power Source Wire	Below 20m/over 20m	mm ²	1.5/2.5	1.5/2.5	1.5/2.5	1.5/2.5	1.5/2.5
	Transmission Cable		mm ²	0.75~1.5	0.75~1.5	0.75~1.5	0.75~1.5	0.75~1.5
Refrigerant	Type	–	R410A	R410A	R410A	R410A	R410A	
	Control Method		–	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound	Sound pressure	High / Mid / Low*4)	dBA	39 / 35 / 31	40 / 37 / 34	41 / 40 / 38	41 / 40 / 38	42 / 39 / 36
Dimensions	Net Weight		kg	29.00	34.00	36.00	52.00	52.00
	Shipping Weight		kg	33.00	39.00	42.00	59.00	59.00
	Net Dimensions (WxHxD)		mm	900 x 260 x 480	1150 x 260 x 480	1150 x 320 x 480	1200 x 360 x 650	1200 x 360 x 650
	Shipping Dimensions (WxHxD)		mm	1170 x 340 x 595	1420 x 340 x 595	1420 x 400 x 595	1480 x 420 x 790	1480 x 420 x 790
Panel Size	Panel Model		–	–	–	–	–	–
	Net Weight		kg	–	–	–	–	–
	Shipping Weight		kg	–	–	–	–	–
	Net Dimensions (WxHxD)		mm	–	–	–	–	–
	Shipping Dimensions (WxHxD)		mm	–	–	–	–	–
Additional Accessories	Drain Pump	Drain Pump	–	MDP-M075SGU3D	MDP-M075SGU1D	MDP-M075SGU1D	MDP-M075SGU2D	MDP-M075SGU2D
		Max. Lifting Height/Displacement	mm/liter/h	750 / 24	750 / 24	750 / 24	750 / 24	750 / 24
	Air Filter		–	Long life filter	Long life filter	Long life filter	Long life filter	Long life filter

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

*1) Mode

– HP : Heat Pump, HR : Heat Recovery

*2) Nominal cooling capacities are based on;

– Indoor temperature : 27°C DB, 19°C WB

– Outdoor temperature : 35°C DB, 24°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

*3) Nominal heating capacities are based on;

– Indoor temperature : 20°C DB, 15°C WB

– Outdoor temperature : 7°C DB, 6°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

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

*5) These products contain R410A which is fluorinated greenhouse gas.

MSP(Middle static pressure) duct

4-2. Capacity tables

1) Cooling

TC : Total Capacity(kW), SHC : Sensible Heat Capacity(kW)

Model	Outdoor temperature (°C, DB)	Indoor temperature (°C, WB)													
		20 (°C, DB)		23 (°C, DB)		26 (°C, DB)		27 (°C, DB)		28 (°C, DB)		30 (°C, DB)		32 (°C, DB)	
		14 (°C, WB)	16 (°C, WB)	16 (°C, WB)	18 (°C, WB)	18 (°C, WB)	19 (°C, WB)	19 (°C, WB)	20 (°C, WB)	20 (°C, WB)	22 (°C, WB)	22 (°C, WB)	24 (°C, WB)	24 (°C, WB)	24 (°C, WB)
022	10	1.5	1.3	1.8	1.5	2.1	1.7	2.2	1.7	2.3	1.7	2.5	1.8	2.6	1.6
	12	1.5	1.3	1.8	1.5	2.1	1.7	2.2	1.7	2.3	1.7	2.5	1.8	2.6	1.6
	14	1.5	1.3	1.8	1.5	2.1	1.7	2.2	1.7	2.3	1.7	2.5	1.8	2.6	1.6
	16	1.5	1.3	1.8	1.5	2.1	1.7	2.2	1.7	2.3	1.7	2.4	1.7	2.6	1.6
	18	1.5	1.3	1.8	1.5	2.1	1.7	2.2	1.7	2.3	1.7	2.4	1.7	2.6	1.6
	20	1.5	1.3	1.8	1.5	2.1	1.7	2.2	1.7	2.3	1.7	2.4	1.7	2.6	1.6
	21	1.5	1.3	1.8	1.5	2.1	1.7	2.2	1.7	2.3	1.7	2.4	1.7	2.6	1.6
	23	1.5	1.3	1.8	1.5	2.1	1.7	2.2	1.7	2.3	1.7	2.4	1.7	2.6	1.6
	25	1.5	1.3	1.8	1.5	2.1	1.7	2.2	1.7	2.3	1.7	2.4	1.7	2.6	1.6
	27	1.5	1.3	1.8	1.5	2.1	1.7	2.2	1.7	2.3	1.7	2.4	1.7	2.6	1.6
	29	1.5	1.3	1.8	1.5	2.1	1.7	2.2	1.7	2.3	1.7	2.4	1.7	2.6	1.6
	31	1.5	1.3	1.8	1.5	2.1	1.7	2.2	1.7	2.3	1.7	2.4	1.7	2.6	1.6
	33	1.5	1.3	1.8	1.5	2.1	1.7	2.2	1.7	2.3	1.7	2.4	1.7	2.6	1.6
	35	1.5	1.3	1.8	1.5	2.1	1.7	2.2	1.7	2.3	1.7	2.4	1.7	2.6	1.6
	37	1.5	1.3	1.8	1.5	2.1	1.7	2.2	1.7	2.3	1.7	2.4	1.7	2.6	1.6
	39	1.5	1.3	1.8	1.5	2.1	1.7	2.2	1.7	2.3	1.7	2.4	1.7	2.5	1.5
028	10	1.9	1.7	2.3	1.9	2.6	2.0	2.8	2.1	2.9	2.1	3.1	2.1	3.4	2.1
	12	1.9	1.7	2.3	1.9	2.6	2.0	2.8	2.1	2.9	2.1	3.1	2.1	3.3	2.0
	14	1.9	1.7	2.3	1.9	2.6	2.0	2.8	2.1	2.9	2.1	3.1	2.1	3.3	2.0
	16	1.9	1.7	2.3	1.9	2.6	2.0	2.8	2.1	2.9	2.1	3.1	2.1	3.3	2.0
	18	1.9	1.7	2.3	1.9	2.6	2.0	2.8	2.1	2.9	2.1	3.1	2.1	3.3	2.0
	20	1.9	1.7	2.3	1.9	2.6	2.0	2.8	2.1	2.9	2.1	3.1	2.1	3.3	2.0
	21	1.9	1.7	2.3	1.9	2.6	2.0	2.8	2.1	2.9	2.1	3.1	2.1	3.3	2.0
	23	1.9	1.7	2.3	1.9	2.6	2.0	2.8	2.1	2.9	2.1	3.1	2.1	3.3	2.0
	25	1.9	1.7	2.3	1.9	2.6	2.0	2.8	2.1	2.9	2.1	3.1	2.1	3.3	2.0
	27	1.9	1.7	2.3	1.9	2.6	2.0	2.8	2.1	2.9	2.1	3.1	2.1	3.3	2.0
	29	1.9	1.7	2.3	1.9	2.6	2.0	2.8	2.1	2.9	2.1	3.1	2.1	3.3	2.0
	31	1.9	1.7	2.3	1.9	2.6	2.0	2.8	2.1	2.9	2.1	3.1	2.1	3.3	2.0
	33	1.9	1.7	2.3	1.9	2.6	2.0	2.8	2.1	2.9	2.1	3.1	2.1	3.3	2.0
	35	1.9	1.7	2.3	1.9	2.6	2.0	2.8	2.1	2.9	2.1	3.1	2.1	3.3	2.0
	37	1.9	1.7	2.3	1.9	2.6	2.0	2.8	2.1	2.9	2.1	3.1	2.1	3.3	2.0
	39	1.9	1.7	2.3	1.9	2.6	2.0	2.8	2.1	2.9	2.1	3.0	2.0	3.2	1.9
036	10	2.5	2.2	2.9	2.5	3.4	2.7	3.6	2.8	3.7	2.8	4.0	2.8	4.3	2.7
	12	2.5	2.2	2.9	2.5	3.4	2.7	3.6	2.8	3.7	2.8	4.0	2.8	4.3	2.7
	14	2.5	2.2	2.9	2.5	3.4	2.7	3.6	2.8	3.7	2.8	4.0	2.8	4.3	2.7
	16	2.5	2.2	2.9	2.5	3.4	2.7	3.6	2.8	3.7	2.8	4.0	2.8	4.3	2.7
	18	2.5	2.2	2.9	2.5	3.4	2.7	3.6	2.8	3.7	2.8	4.0	2.8	4.3	2.7
	20	2.5	2.2	2.9	2.5	3.4	2.7	3.6	2.8	3.7	2.8	4.0	2.8	4.2	2.6
	21	2.5	2.2	2.9	2.5	3.4	2.7	3.6	2.8	3.7	2.8	4.0	2.8	4.2	2.6
	23	2.5	2.2	2.9	2.5	3.4	2.7	3.6	2.8	3.7	2.8	4.0	2.8	4.2	2.6
	25	2.5	2.2	2.9	2.5	3.4	2.7	3.6	2.8	3.7	2.8	4.0	2.8	4.2	2.6
	27	2.5	2.2	2.9	2.5	3.4	2.7	3.6	2.8	3.7	2.8	4.0	2.8	4.2	2.6
	29	2.5	2.2	2.9	2.5	3.4	2.7	3.6	2.8	3.7	2.8	4.0	2.8	4.2	2.6
	31	2.5	2.2	2.9	2.5	3.4	2.7	3.6	2.8	3.7	2.8	4.0	2.8	4.2	2.6
	33	2.5	2.2	2.9	2.5	3.4	2.7	3.6	2.8	3.7	2.8	4.0	2.8	4.2	2.6
	35	2.5	2.2	2.9	2.5	3.4	2.7	3.6	2.8	3.7	2.8	4.0	2.8	4.2	2.6
	37	2.5	2.2	2.9	2.5	3.4	2.7	3.6	2.8	3.7	2.8	3.9	2.7	4.2	2.6
	39	2.5	2.2	2.9	2.5	3.4	2.7	3.6	2.8	3.7	2.8	3.9	2.7	4.1	2.5
045	10	3.1	2.8	3.7	3.2	4.2	3.3	4.5	3.4	4.7	3.4	5.0	3.4	5.4	3.5
	12	3.1	2.8	3.7	3.2	4.2	3.3	4.5	3.4	4.7	3.4	5.0	3.4	5.4	3.5
	14	3.1	2.8	3.7	3.2	4.2	3.3	4.5	3.4	4.7	3.4	5.0	3.4	5.4	3.5
	16	3.1	2.8	3.7	3.2	4.2	3.3	4.5	3.4	4.7	3.4	5.0	3.4	5.3	3.2
	18	3.1	2.8	3.7	3.2	4.2	3.3	4.5	3.4	4.7	3.4	5.0	3.4	5.3	3.2
	20	3.1	2.8	3.7	3.2	4.2	3.3	4.5	3.4	4.7	3.4	5.0	3.4	5.3	3.2
	21	3.1	2.8	3.7	3.2	4.2	3.3	4.5	3.4	4.7	3.4	5.0	3.4	5.3	3.2
	23	3.1	2.8	3.7	3.2	4.2	3.3	4.5	3.4	4.7	3.4	5.0	3.4	5.3	3.2
	25	3.1	2.8	3.7	3.2	4.2	3.3	4.5	3.4	4.7	3.4	5.0	3.4	5.3	3.2
	27	3.1	2.8	3.7	3.2	4.2	3.3	4.5	3.4	4.7	3.4	5.0	3.4	5.3	3.2
	29	3.1	2.8	3.7	3.2	4.2	3.3	4.5	3.4	4.7	3.4	5.0	3.4	5.3	3.2
	31	3.1	2.8	3.7	3.2	4.2	3.3	4.5	3.4	4.7	3.4	5.0	3.4	5.3	3.2
	33	3.1	2.8	3.7	3.2	4.2	3.3	4.5	3.4	4.7	3.4	5.0	3.4	5.3	3.2
	35	3.1	2.8	3.7	3.2	4.2	3.3	4.5	3.4	4.7	3.4	5.0	3.4	5.3	3.2
	37	3.1	2.8	3.7	3.2	4.2	3.3	4.5	3.4	4.6	3.3	4.9	3.3	5.2	3.2
	39	3.1	2.8	3.7	3.2	4.2	3.3	4.5	3.4	4.6	3.3	4.9	3.3	5.1	3.1
056	10	3.9	3.4	4.6	3.9	5.3	4.1	5.6	4.3	5.8	4.3	6.3	4.4	6.7	4.2
	12	3.9	3.4	4.6	3.9	5.3	4.1	5.6	4.3	5.8	4.3	6.3	4.4	6.7	4.2
	14	3.9	3.4	4.6	3.9	5.3	4.1	5.6	4.3	5.8	4.3	6.2	4.3	6.7	4.2
	16	3.9	3.4	4.6	3.9	5.3	4.1	5.6	4.3	5.8	4.3	6.2	4.3	6.6	4.1
	18	3.9	3.4	4.6	3.9	5.3	4.1	5.6	4.3	5.8	4.3	6.2	4.3	6.6	4.1
	20	3.9	3.4	4.6	3.9	5.3	4.1	5.6	4.3	5.8	4.3	6.2	4.3	6.6	4.1
	21	3.9	3.4	4.6	3.9	5.3	4.1	5.6	4.3	5.8	4.3	6.2	4.3	6.6	4.1
	23	3.9	3.4	4.6	3.9	5.3	4.1	5.6	4.3	5.8	4.3	6.2	4.3	6.6	4.1
	25	3.9	3.4	4.6	3.9	5.3	4.1	5.6	4.3	5.8	4.3	6.2	4.3	6.6	4.1
	27	3.9	3.4	4.6	3.9	5.3	4.1	5.6	4.3	5.8	4.3	6.2	4.3	6.6	4.1
	29	3.9	3.4	4.6	3.9	5.3	4.1	5.6	4.3	5.8	4.3	6.2	4.3	6.6	4.1
	31	3.9	3.4	4.6	3.9	5.3	4.1	5.6	4.3	5.8	4.3	6.2	4.3	6.6	4.1
	33	3.9	3.4	4.6	3.9	5.3	4.1	5.6	4.3	5.8	4.3	6.2	4.3	6.6	4.1
	35	3.9	3.4	4.6	3.9	5.3	4.1	5.6	4.3	5.8	4.3	6.2	4.3	6.6	4.1
	37	3.9	3.4	4.6	3.9	5.3	4.1	5.6	4.3	5.8	4.3	6.1	4.2	6.5	4.0
	39	3.9	3.4	4.6	3.9	5.3	4.1	5.6	4.3	5.8	4.3	6.1	4.2	6.4	3.9

TC : Total Capacity(kW), SHC : Sensible Heat Capacity(kW)

Model	Outdoor temperature (°C, DB)	Indoor temperature (°C, WB)													
		20 (°C, DB)		23 (°C, DB)		26 (°C, DB)		27 (°C, DB)		28 (°C, DB)		30 (°C, DB)		32 (°C, DB)	
		14 (°C, WB)		16 (°C, WB)		18 (°C, WB)		19 (°C, WB)		20 (°C, WB)		22 (°C, WB)		24 (°C, WB)	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
071	10	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	8.0	5.7	8.5	5.4
	12	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	7.9	5.6	8.5	5.4
	14	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	7.9	5.6	8.5	5.4
	16	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	7.9	5.6	8.4	5.3
	18	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	7.9	5.6	8.4	5.3
	20	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	7.9	5.6	8.4	5.3
	21	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	7.9	5.6	8.4	5.3
	23	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	7.9	5.6	8.4	5.3
	25	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	7.9	5.6	8.4	5.3
	27	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	7.9	5.6	8.4	5.3
	29	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	7.9	5.6	8.4	5.3
	31	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	7.9	5.6	8.4	5.3
	33	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	7.9	5.6	8.4	5.3
	35	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	7.9	5.6	8.4	5.3
	37	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.3	5.5	7.8	5.5	8.2	5.2
	39	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.3	5.5	7.7	5.4	8.1	5.1
090	10	6.2	5.5	7.3	6.3	8.4	6.7	9.0	6.9	9.4	7.1	10.1	7.1	10.8	7.1
	12	6.2	5.5	7.3	6.3	8.4	6.7	9.0	6.9	9.4	7.1	10.1	7.1	10.8	7.1
	14	6.2	5.5	7.3	6.3	8.4	6.7	9.0	6.9	9.3	7.0	10.0	7.0	10.7	6.9
	16	6.2	5.5	7.3	6.3	8.4	6.7	9.0	6.9	9.3	7.0	10.0	7.0	10.7	6.9
	18	6.2	5.5	7.3	6.3	8.4	6.7	9.0	6.9	9.3	7.0	10.0	7.0	10.6	6.8
	20	6.2	5.5	7.3	6.3	8.4	6.7	9.0	6.9	9.3	7.0	10.0	7.0	10.6	6.8
	21	6.2	5.5	7.3	6.3	8.4	6.7	9.0	6.9	9.3	7.0	10.0	7.0	10.6	6.8
	23	6.2	5.5	7.3	6.3	8.4	6.7	9.0	6.9	9.3	7.0	10.0	7.0	10.6	6.8
	25	6.2	5.5	7.3	6.3	8.4	6.7	9.0	6.9	9.3	7.0	10.0	7.0	10.6	6.8
	27	6.2	5.5	7.3	6.3	8.4	6.7	9.0	6.9	9.3	7.0	10.0	7.0	10.6	6.8
	29	6.2	5.5	7.3	6.3	8.4	6.7	9.0	6.9	9.3	7.0	10.0	7.0	10.6	6.8
	31	6.2	5.5	7.3	6.3	8.4	6.7	9.0	6.9	9.3	7.0	10.0	7.0	10.6	6.8
	33	6.2	5.5	7.3	6.3	8.4	6.7	9.0	6.9	9.3	7.0	10.0	7.0	10.6	6.8
	35	6.2	5.5	7.3	6.3	8.4	6.7	9.0	6.9	9.3	7.0	10.0	7.0	10.6	6.8
	37	6.2	5.5	7.3	6.3	8.4	6.7	9.0	6.9	9.3	7.0	9.9	6.9	10.4	6.7
	39	6.2	5.5	7.3	6.3	8.4	6.7	9.0	6.9	9.2	6.9	9.7	6.8	10.2	6.6
112	10	7.7	6.5	9.1	7.5	10.5	8.0	11.2	8.3	11.6	8.5	12.5	8.4	13.4	8.3
	12	7.7	6.5	9.1	7.5	10.5	8.0	11.2	8.3	11.6	8.5	12.5	8.4	13.4	8.3
	14	7.7	6.5	9.1	7.5	10.5	8.0	11.2	8.3	11.6	8.5	12.5	8.4	13.3	8.2
	16	7.7	6.5	9.1	7.5	10.5	8.0	11.2	8.3	11.6	8.5	12.5	8.4	13.3	8.2
	18	7.7	6.5	9.1	7.5	10.5	8.0	11.2	8.3	11.6	8.5	12.4	8.3	13.2	8.2
	20	7.7	6.5	9.1	7.5	10.5	8.0	11.2	8.3	11.6	8.5	12.4	8.3	13.2	8.1
	21	7.7	6.5	9.1	7.5	10.5	8.0	11.2	8.3	11.6	8.5	12.4	8.3	13.2	8.1
	23	7.7	6.5	9.1	7.5	10.5	8.0	11.2	8.3	11.6	8.5	12.4	8.3	13.2	8.1
	25	7.7	6.5	9.1	7.5	10.5	8.0	11.2	8.3	11.6	8.5	12.4	8.4	13.2	8.1
	27	7.7	6.5	9.1	7.5	10.5	8.0	11.2	8.3	11.6	8.5	12.4	8.3	13.2	8.1
	29	7.7	6.5	9.1	7.5	10.5	8.0	11.2	8.3	11.6	8.5	12.4	8.3	13.2	8.1
	31	7.7	6.5	9.1	7.5	10.5	8.0	11.2	8.3	11.6	8.5	12.4	8.5	13.2	8.1
	33	7.7	6.5	9.1	7.5	10.5	8.0	11.2	8.3	11.6	8.5	12.4	8.5	13.2	8.1
	35	7.7	6.5	9.1	7.5	10.5	8.0	11.2	8.3	11.6	8.5	12.4	8.4	13.2	8.1
	37	7.7	6.5	9.1	7.5	10.5	8.0	11.2	8.3	11.6	8.5	12.3	8.5	13.0	8.0
	39	7.7	6.5	9.1	7.5	10.5	8.0	11.2	8.3	11.5	8.5	12.1	8.4	12.7	7.9
128	10	10.4	7.6	10.4	8.7	12.0	9.3	12.8	9.7	13.3	9.9	14.3	6.3	15.4	9.8
	12	10.4	7.6	10.4	8.7	12.0	9.3	12.8	9.7	13.3	9.9	14.3	6.3	15.3	9.8
	14	10.4	7.6	10.4	8.7	12.0	9.3	12.8	9.7	13.3	9.9	14.3	6.2	15.3	9.7
	16	10.4	9.0	10.4	8.7	12.0	9.3	12.8	9.7	13.3	9.9	14.2	6.2	15.2	9.7
	18	10.4	9.0	10.4	8.7	12.0	9.3	12.8	9.7	13.3	9.9	14.2	6.2	15.1	9.7
	20	10.4	9.0	10.4	8.7	12.0	9.3	12.8	9.7	13.3	9.9	14.2	6.2	15.1	9.7
	21	10.4	9.0	10.4	8.7	12.0	9.3	12.8	9.7	13.3	9.9	14.2	6.2	15.1	9.7
	23	10.4	9.0	10.4	8.7	12.0	9.3	12.8	9.7	13.3	9.9	14.2	6.2	15.1	9.7
	25	10.4	9.0	10.4	8.7	12.0	9.3	12.8	9.7	13.3	9.9	14.2	6.2	15.1	9.7
	27	10.4	9.0	10.4	8.7	12.0	9.3	12.8	9.7	13.3	9.9	14.2	6.2	15.1	9.7
	29	10.4	9.0	10.4	8.7	12.0	9.3	12.8	9.7	13.3	9.9	14.2	6.2	15.1	9.7
	31	10.4	9.0	10.4	8.7	12.0	9.3	12.8	9.7	13.3	9.9	14.2	6.2	15.1	9.7
	33	10.4	9.0	10.4	8.7	12.0	9.3	12.8	9.7	13.3	9.9	14.2	6.2	15.1	9.7
	35	10.4	9.0	10.4	8.7	12.0	9.3	12.8	9.7	13.3	9.8	14.2	6.2	15.1	9.7
	37	10.4	9.0	10.4	8.7	12.0	9.3	12.8	9.7	13.2	9.9	14.0	6.1	14.9	9.6
	39	10.4	9.0	10.4	8.7	12.0	9.3	12.8	9.7	13.1	9.9	13.8	6.1	14.5	9.6
140	10	9.7	8.6	11.4	9.6	13.1	10.4	14.0	10.8	14.6	11.0	15.7	8.0	16.8	11.2
	12	9.7	8.6	11.4	9.6	13.1	10.4	14.0	10.8	14.5	11.0	15.6	7.9	16.7	11.2
	14	9.7	8.6	11.4	9.6	13.1	10.4	14.0	10.8	14.5	11.0	15.6	7.9	16.7	11.1
	16	9.7	8.6	11.4	9.6	13.1	10.4	14.0	10.8	14.5	11.0	15.6	7.9	16.6	11.1
	18	9.7	8.6	11.4	9.6	13.1	10.4	14.0	10.8	14.5	11.0	15.5	7.9	16.6	11.0
	20	9.7	8.6	11.4	9.6	13.1	10.4	14.0	10.8	14.5	11.0	15.5	7.9	16.5	11.0
	21	9.7	8.6	11.4	9.6	13.1	10.4	14.0	10.8	14.5	11.0	15.5	7.9	16.5	11.0
	23	9.7	8.6	11.4	9.6	13.1	10.4	14.0	10.8	14.5	11.0	15.5	7.9	16.5	11.0
	25	9.7	8.6	11.4	9.6	13.1	10.4	14.0	10.8	14.5	11.0	15.5	7.9	16.5	11.0
	27	9.7	8.6	11.4	9.6	13.1	10.4	14.0	10.8	14.5	11.0	15.5	7.9	16.5	11.0
	29	9.7	8.6	11.4	9.6	13.1	10.4	14.0	10.8	14.5	11.0	15.5	7.9	16.5	11.0
	31	9.7	8.6	11.4	9.6	13.1	10.4	14.0	10.8	14.5	11.0	15.5	7.9	16.5	11.0
	33	9.7	8.6	11.4	9.6	13.1	10.4	14.0	10.8	14.5	11.0	15.5	7.9	16.5	11.0
	35	9.7	8.6	11.4	9.6	13.1	10.4	14.0	10.8	14.5	10.9	15.5	7.9	16.5	11.0
	37	9.7	8.6	11.4	9.6	13.1	10.4	14.0	10.8	14.5	11.0	15.4	7.8	16.3	11.0
	39	9.7	8.6	11.4	9.6	13.1	10.4	14.0	10.8	14.4	10.9	15.1	7.7	15.9	10.8

MSP(Middle static pressure) duct

4-2. Capacity tables

2) Heating

TC : Total Capacity(kW)

Model	Outdoor temperature (°C)		Indoor temperature (°C, DB)				
			16.0	18.0	20.0	22.0	24.0
			TC	TC	TC	TC	TC
	DB	WB	kW	kW	kW	kW	kW
022	-20	-21	1.5	1.5	1.5	1.5	1.5
	-17	-18	1.6	1.6	1.6	1.6	1.6
	-15	-16	1.7	1.6	1.6	1.6	1.6
	-12	-13	1.8	1.8	1.8	1.8	1.7
	-10	-11	2.0	2.0	1.9	1.9	1.9
	-7	-8	2.3	2.2	2.2	2.0	2.0
	-5	-6	2.4	2.3	2.3	2.2	2.2
	-3	-4	2.5	2.5	2.4	2.3	2.2
	0	-1	2.6	2.5	2.5	2.3	2.2
	3	2.2	2.7	2.6	2.5	2.3	2.2
	5	4.1	2.8	2.7	2.5	2.3	2.2
	7	6	2.8	2.7	2.5	2.3	2.2
	9	7.9	3.0	2.7	2.5	2.3	2.2
	11	9.8	3.0	2.7	2.5	2.3	2.2
	13	12	3.0	2.7	2.5	2.3	2.2
	15	14	3.0	2.7	2.5	2.3	2.2
028	-20	-21	1.9	1.9	1.9	1.9	1.9
	-17	-18	2.0	2.0	2.0	2.0	1.9
	-15	-16	2.1	2.1	2.0	2.0	1.9
	-12	-13	2.2	2.2	2.2	2.1	2.1
	-10	-11	2.3	2.3	2.3	2.3	2.2
	-7	-8	2.5	2.4	2.4	2.4	2.3
	-5	-6	2.6	2.6	2.5	2.5	2.4
	-3	-4	2.8	2.7	2.7	2.6	2.5
	0	-1	2.9	2.8	2.8	2.7	2.6
	3	2.2	3.0	3.0	2.9	2.8	2.7
	5	4.1	3.2	3.1	3.1	2.9	2.7
	7	6	3.3	3.2	3.2	3.0	2.7
	9	7.9	3.4	3.3	3.2	3.0	2.7
	11	9.8	3.5	3.3	3.2	3.0	2.7
	13	12	3.6	3.4	3.2	3.0	2.7
	15	14	3.7	3.4	3.2	3.0	2.7
036	-20	-21	2.4	2.4	2.3	2.3	2.3
	-17	-18	2.6	2.5	2.4	2.4	2.3
	-15	-16	2.7	2.6	2.5	2.5	2.4
	-12	-13	2.8	2.7	2.7	2.6	2.6
	-10	-11	2.9	2.9	2.9	2.8	2.8
	-7	-8	3.1	3.1	3.0	3.0	2.9
	-5	-6	3.3	3.2	3.2	3.1	3.0
	-3	-4	3.4	3.4	3.3	3.2	3.1
	0	-1	3.6	3.6	3.5	3.4	3.2
	3	2.2	3.8	3.7	3.7	3.5	3.4
	5	4.1	3.9	3.9	3.8	3.6	3.4
	7	6	4.1	4.1	4.0	3.7	3.4
	9	7.9	4.2	4.1	4.0	3.7	3.4
	11	9.8	4.4	4.2	4.0	3.7	3.4
	13	12	4.5	4.2	4.0	3.7	3.4
	15	14	4.6	4.3	4.0	3.7	3.4
045	-20	-21	3.1	3.1	2.9	2.9	2.9
	-17	-18	3.2	3.2	3.1	3.0	3.0
	-15	-16	3.3	3.3	3.2	3.1	3.0
	-12	-13	3.5	3.4	3.4	3.3	3.2
	-10	-11	3.7	3.6	3.6	3.5	3.5
	-7	-8	3.9	3.8	3.8	3.7	3.6
	-5	-6	4.1	4.0	4.0	3.9	3.7
	-3	-4	4.3	4.2	4.2	4.0	3.9
	0	-1	4.5	4.4	4.4	4.2	4.0
	3	2.2	4.7	4.7	4.6	4.4	4.2
	5	4.1	4.9	4.9	4.8	4.5	4.2
	7	6	5.1	5.1	5.0	4.6	4.2
	9	7.9	5.3	5.2	5.0	4.6	4.2
	11	9.8	5.5	5.2	5.0	4.6	4.2
	13	12	5.6	5.3	5.0	4.6	4.2
	15	14	5.8	5.4	5.0	4.6	4.2
056	-20	-21	3.9	3.8	.8	3.7	3.7
	-17	-18	4.0	4.0	3.9	3.8	3.8
	-15	-16	4.2	4.1	4.0	3.9	3.8
	-12	-13	4.4	4.3	4.2	4.2	4.1
	-10	-11	4.6	4.6	4.5	4.4	4.4
	-7	-8	4.9	4.8	4.8	4.7	4.5
	-5	-6	5.2	5.1	5.0	4.9	4.7
	-3	-4	5.4	5.3	5.3	5.1	4.9
	0	-1	5.7	5.6	5.5	5.3	5.0
	3	2.2	5.9	5.9	5.8	5.6	5.3
	5	4.1	6.2	6.1	6.0	5.7	5.3
	7	6	6.5	6.4	6.3	5.8	5.3
	9	7.9	6.7	6.5	6.3	5.8	5.3
	11	9.8	6.9	6.6	6.3	5.8	5.3
	13	12	7.1	6.7	6.3	5.8	5.3
	15	14	7.3	6.8	6.3	5.8	5.3

2) Heating

TC : Total Capacity(kW)

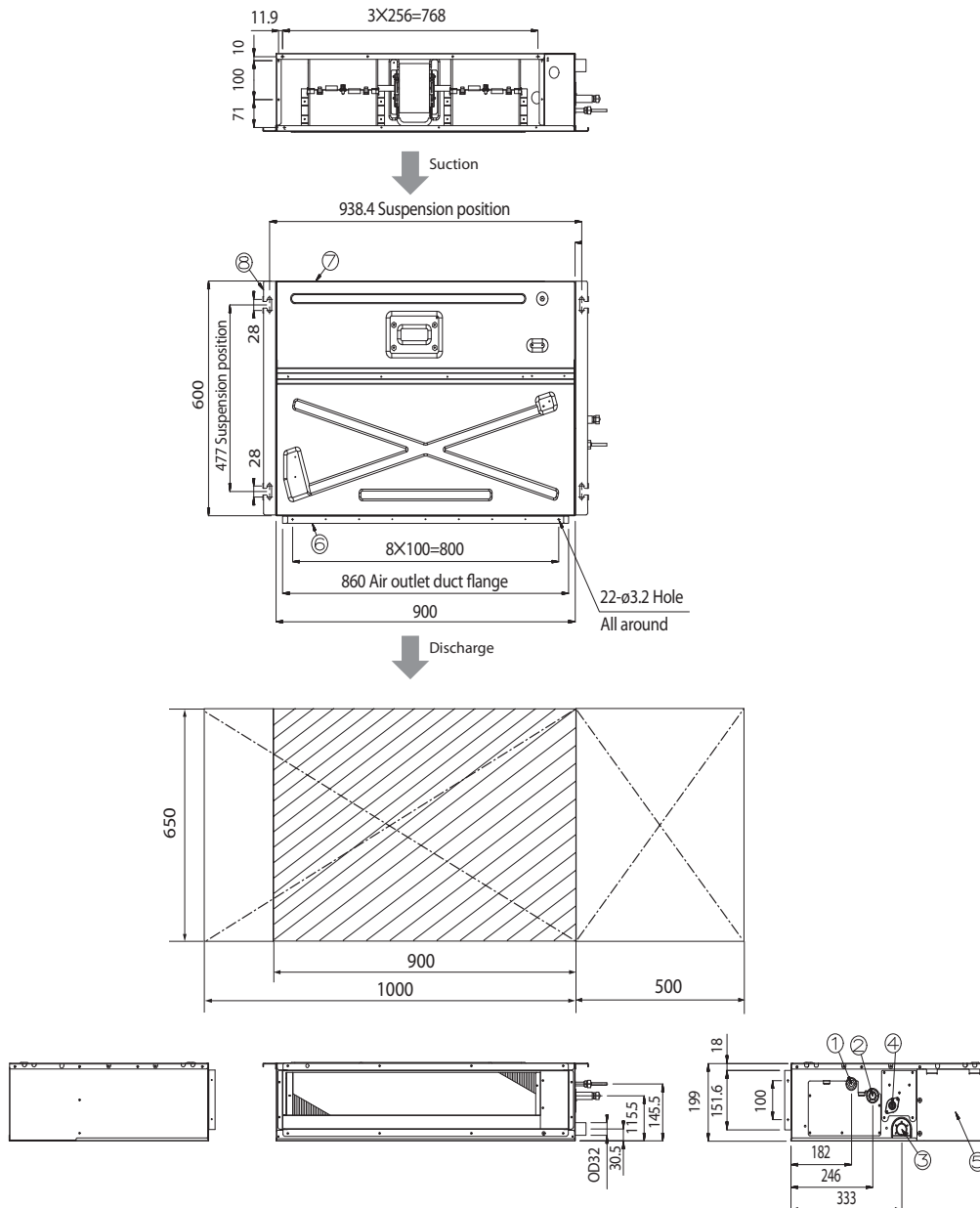
Model	Outdoor temperature (°C)		Indoor temperature (°C, DB)				
			16.0	18.0	20.0	22.0	24.0
			TC	TC	TC	TC	TC
	DB	WB	kW	kW	kW	kW	kW
071	-20	-21	4.9	4.9	4.8	4.7	4.7
	-17	-18	5.1	5.0	4.9	4.8	4.8
	-15	-16	5.3	5.2	5.1	4.9	4.8
	-12	-13	5.6	5.5	5.4	5.3	5.2
	-10	-11	5.9	5.8	5.7	5.6	5.6
	-7	-8	6.2	6.1	6.0	5.9	5.8
	-5	-6	6.5	6.5	6.4	6.2	6.0
	-3	-4	6.9	6.8	6.7	6.4	6.2
	0	-1	7.2	7.1	7.0	6.7	6.4
	3	2.2	7.6	7.5	7.3	7.1	6.8
	5	4.1	7.9	7.8	7.7	7.2	6.8
	7	6	8.2	8.1	8.0	7.4	6.8
	9	7.9	8.5	8.2	8.0	7.4	6.8
	11	9.8	8.7	8.4	8.0	7.4	6.8
	13	12	9.0	8.5	8.0	7.4	6.8
	15	14	9.2	8.6	8.0	7.4	6.8
090	-20	-21	6.0	6.0	5.9	5.8	5.8
	-17	-18	6.3	6.3	6.1	6.0	5.9
	-15	-16	6.7	6.5	6.3	6.1	6.0
	-12	-13	7.0	6.9	6.7	6.6	6.5
	-10	-11	7.3	7.2	7.1	7.0	7.0
	-7	-8	7.8	7.7	7.6	7.4	7.2
	-5	-6	8.2	8.1	8.0	7.7	7.5
	-3	-4	8.6	8.5	8.4	8.1	7.7
	0	-1	9.0	8.9	8.8	8.4	8.0
	3	2.2	9.4	9.3	9.2	8.8	8.4
	5	4.1	9.9	9.7	9.6	9.0	8.4
	7	6	10.3	10.1	10.0	9.2	8.4
	9	7.9	10.6	10.3	10.0	9.2	8.4
	11	9.8	10.9	10.5	10.0	9.2	8.4
	13	12	11.2	10.6	10.0	9.2	8.4
	15	14	11.6	10.8	10.0	9.2	8.4
112	-20	-21	7.4	7.4	7.3	7.3	7.3
	-17	-18	8.0	7.8	7.6	7.5	7.4
	-15	-16	8.4	8.1	7.9	7.7	7.5
	-12	-13	8.8	8.6	8.4	8.2	8.1
	-10	-11	9.2	9.0	8.9	8.8	8.7
	-7	-8	9.7	9.6	9.4	9.2	9.0
	-5	-6	10.2	10.1	9.9	9.6	9.3
	-3	-4	10.7	10.6	10.5	10.1	9.7
	0	-1	11.3	11.1	11.1	10.5	10.0
	3	2.2	11.8	11.6	11.5	11.0	10.6
	5	4.1	12.3	12.2	12.0	11.3	10.6
	7	6	12.9	12.7	12.5	11.5	10.6
	9	7.9	13.3	12.9	12.5	11.5	10.6
	11	9.8	13.7	13.1	12.5	11.5	10.6
	13	12	14.0	13.3	12.5	11.5	10.6
	15	14	14.4	13.5	12.5	11.5	10.6
128	-20	-21	8.1	8.1	8.0	8.0	8.0
	-17	-18	8.7	8.5	8.4	8.3	8.1
	-15	-16	9.2	9.0	8.7	8.5	8.2
	-12	-13	9.7	9.5	9.3	9.1	8.9
	-10	-11	10.1	10.0	9.9	9.7	9.6
	-7	-8	10.7	10.6	10.4	10.2	10.0
	-5	-6	11.3	11.1	11.0	10.7	10.3
	-3	-4	11.9	11.7	11.5	11.1	10.7
	0	-1	12.4	12.3	12.1	11.6	11.0
	3	2.2	13.0	12.9	12.7	12.2	11.7
	5	4.1	13.6	13.4	13.2	12.4	11.7
	7	6	14.2	14.0	13.8	12.7	11.7
	9	7.9	14.6	14.2	13.8	12.7	11.7
	11	9.8	15.1	14.4	13.8	12.7	11.7
	13	12	15.5	14.7	13.8	12.7	11.7
	15	14	15.9	14.9	13.8	12.7	11.7
140	-20	-21	9.5	9.5	9.4	9.4	9.3
	-17	-18	10.1	9.9	9.6	9.6	9.4
	-15	-16	10.7	10.4	10.1	9.8	9.5
	-12	-13	11.2	11.0	10.8	10.6	10.3
	-10	-11	11.7	11.6	11.4	11.3	11.1
	-7	-8	12.4	12.2	12.1	11.8	11.5
	-5	-6	13.1	12.9	12.7	12.3	12.0
	-3	-4	13.8	13.6	13.4	12.9	12.4
	0	-1	14.4	14.2	14.0	13.4	12.8
	3	2.2	15.1	14.9	14.7	14.1	13.5
	5	4.1	15.8	15.6	15.3	14.4	13.5
	7	6	16.5	16.2	16.0	14.8	13.5
	9	7.9	17.0	16.5	16.0	14.8	13.5
	11	9.8	17.5	16.7	16.0	14.8	13.5
	13	12	18.0	17.0	16.0	14.8	13.5
	15	14	18.5	17.2	16.0	14.8	13.5

MSP(Middle static pressure) duct

4-3. Dimensional drawing

1) AM022/028/036FNMDEH***

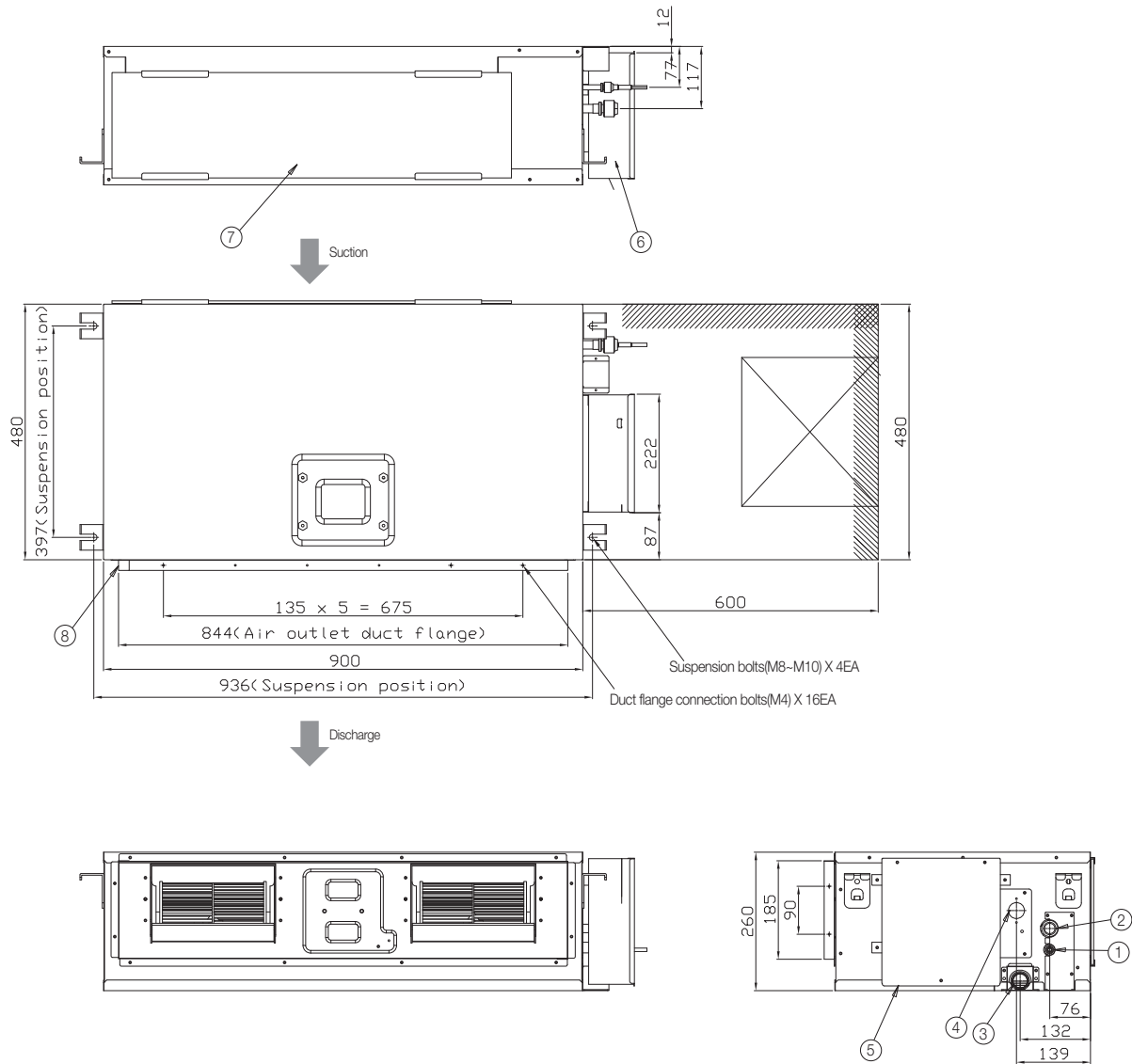
Unit:mm



No.	Name	Description		
		2.2kW	2.8kW	3.6kW
①	Liquid pipe connection	Ø6.35 Flare		
②	Gas pipe connection	Ø12.70 Flare		
③	Drain pipe connection without optional drain pump kits	VP25 (OD 32, ID 25)		
④	Drain pipe connection with optional drain pump kits	VP25 (OD 32, ID 25)		
⑤	Control unit	-		
⑥	Conduit for power supply & communication wiring	-		
⑦	Return air side	-		
⑧	Air outlet duct flange	-		

2) AM045/056/071FNMDEH***

Unit:mm

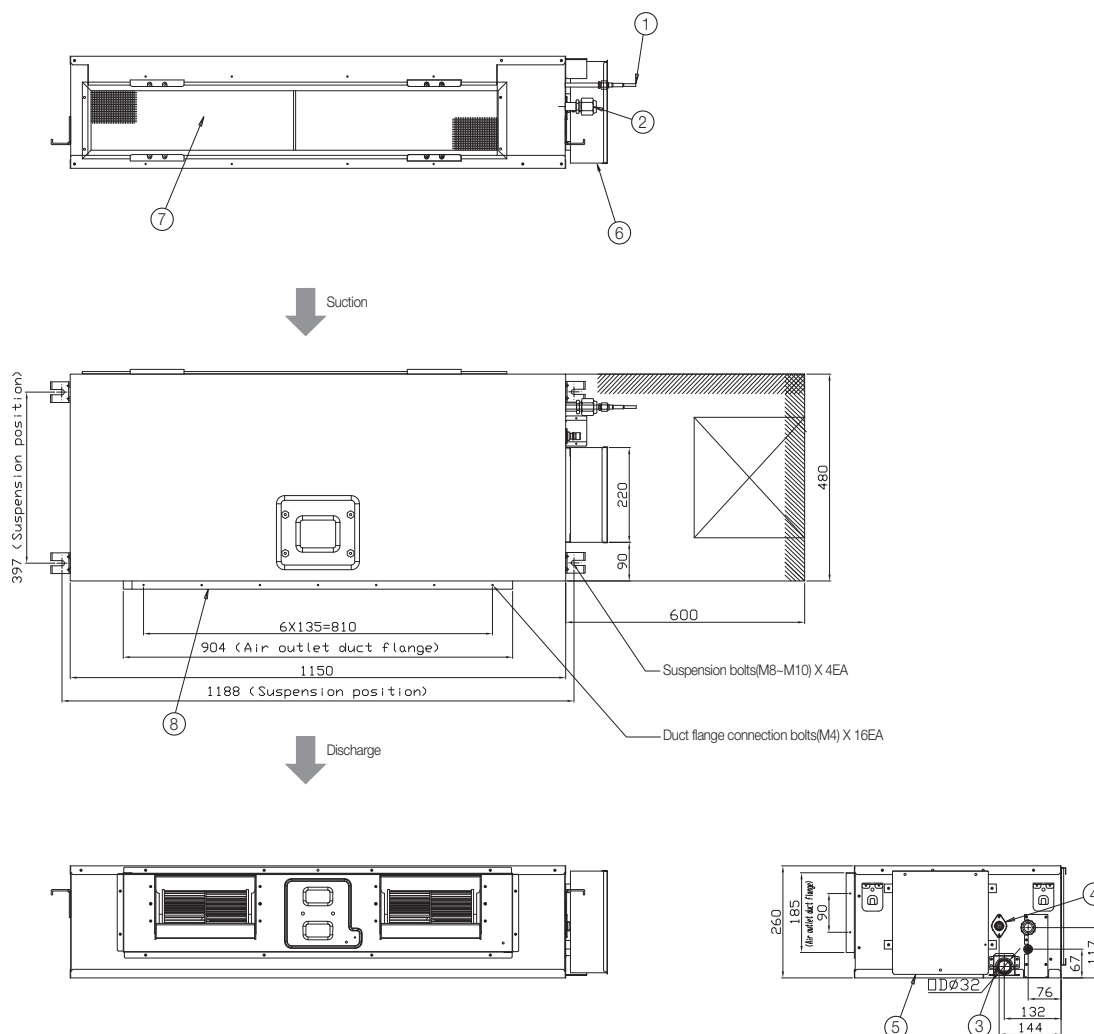


No.	Name	Description		
		4.5kW	5.6kW	7.1kW
①	Liquid pipe connection	Ø6.35 Flare		Ø9.52 Flare
②	Gas pipe connection	Ø12.70 Flare		Ø15.88 Flare
③	Drain pipe connection without optional drain pump kits	VP25 (OD 32, ID 25)		
④	Drain pipe connection with optional drain pump kits	VP25 (OD 32, ID 25)		
⑤	Control unit	-		
⑥	Conduit for power supply & communication wiring	-		
⑦	Return air side	-		
⑧	Air outlet duct flange	-		

4-3. Dimensional drawing

3) AM090FNMDEH***

Unit:mm

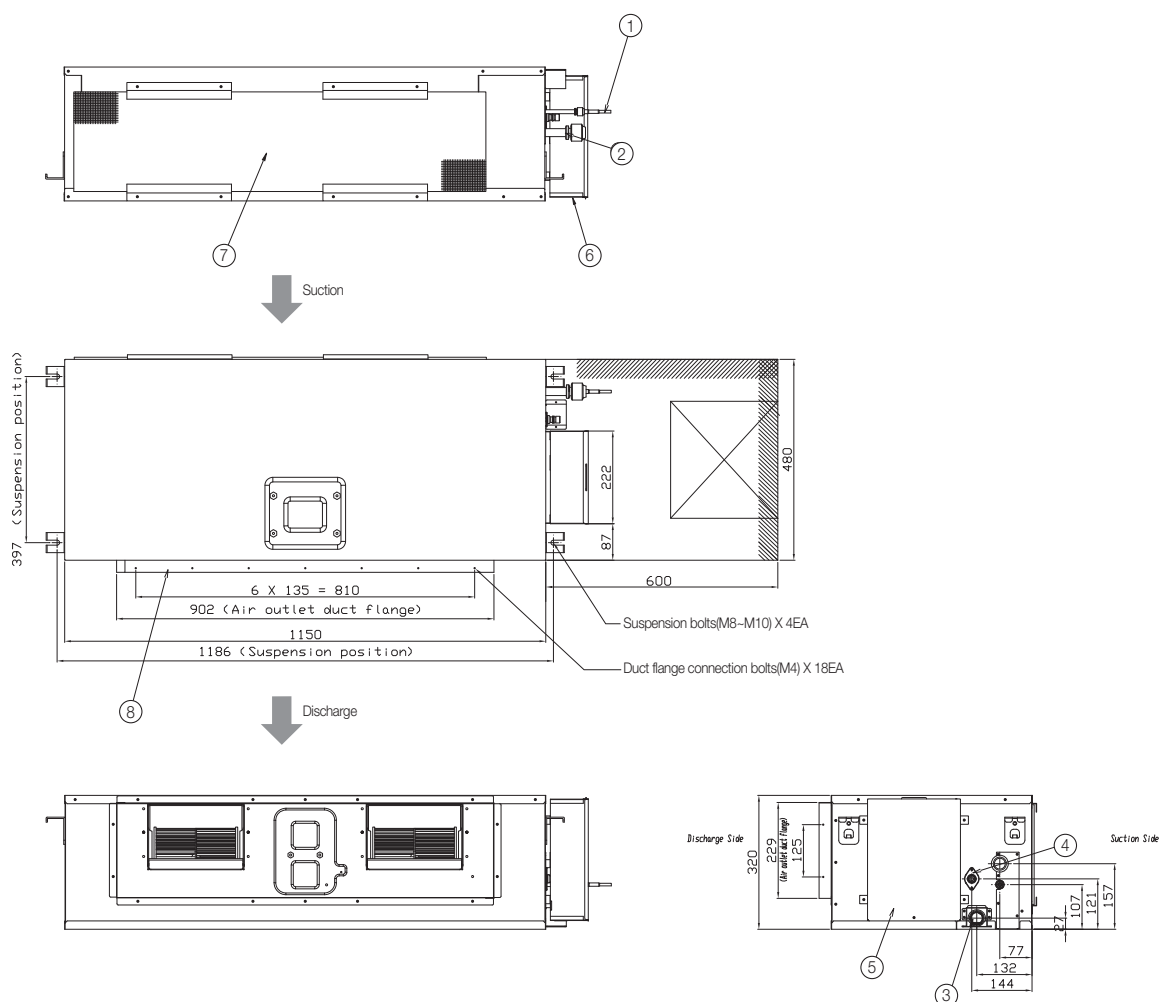


No.	Name	Description
		9.0kW
①	Liquid pipe connection	Ø9.52 Flare
②	Gas pipe connection	Ø15.88 Flare
③	Drain pipe connection without optional drain pump kits	VP25 (OD 32, ID 25)
④	Drain pipe connection with optional drain pump kits	VP25 (OD 32, ID 25)
⑤	Control unit	-
⑥	Conduit for power supply & communication wiring	-
⑦	Return air side	-
⑧	Air outlet duct flange	-

4-3. Dimensional drawing

4) AM112FNMDEH***

Unit:mm



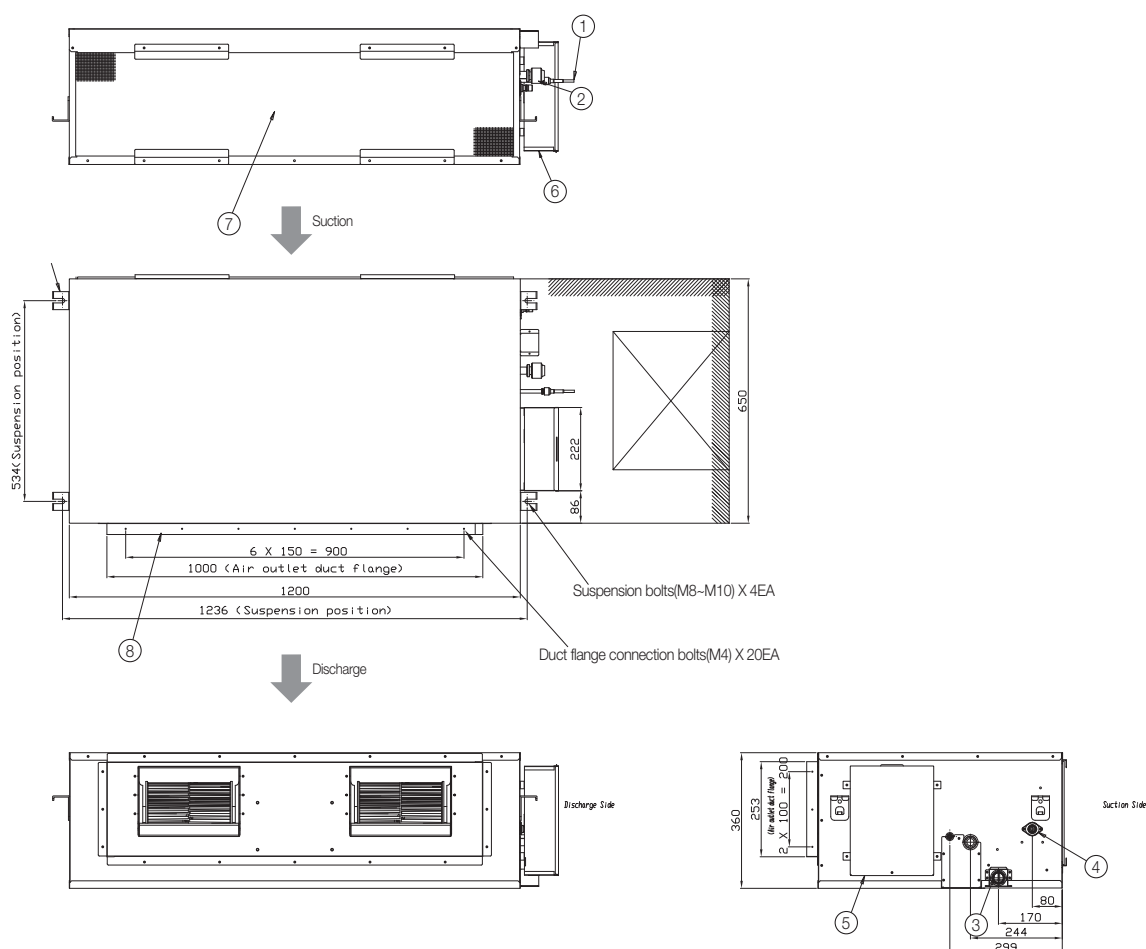
No.	Name	Description
		11.2kW
①	Liquid pipe connection	Ø9.52 Flare
②	Gas pipe connection	Ø15.88 Flare
③	Drain pipe connection without optional drain pump kits	VP25 (OD 32, ID 25)
④	Drain pipe connection with optional drain pump kits	VP25 (OD 32, ID 25)
⑤	Control unit	-
⑥	Conduit for power supply & communication wiring	-
⑦	Return air side	-
⑧	Air outlet duct flange	-

MSP(Middle static pressure) duct

4-3. Dimensional drawing

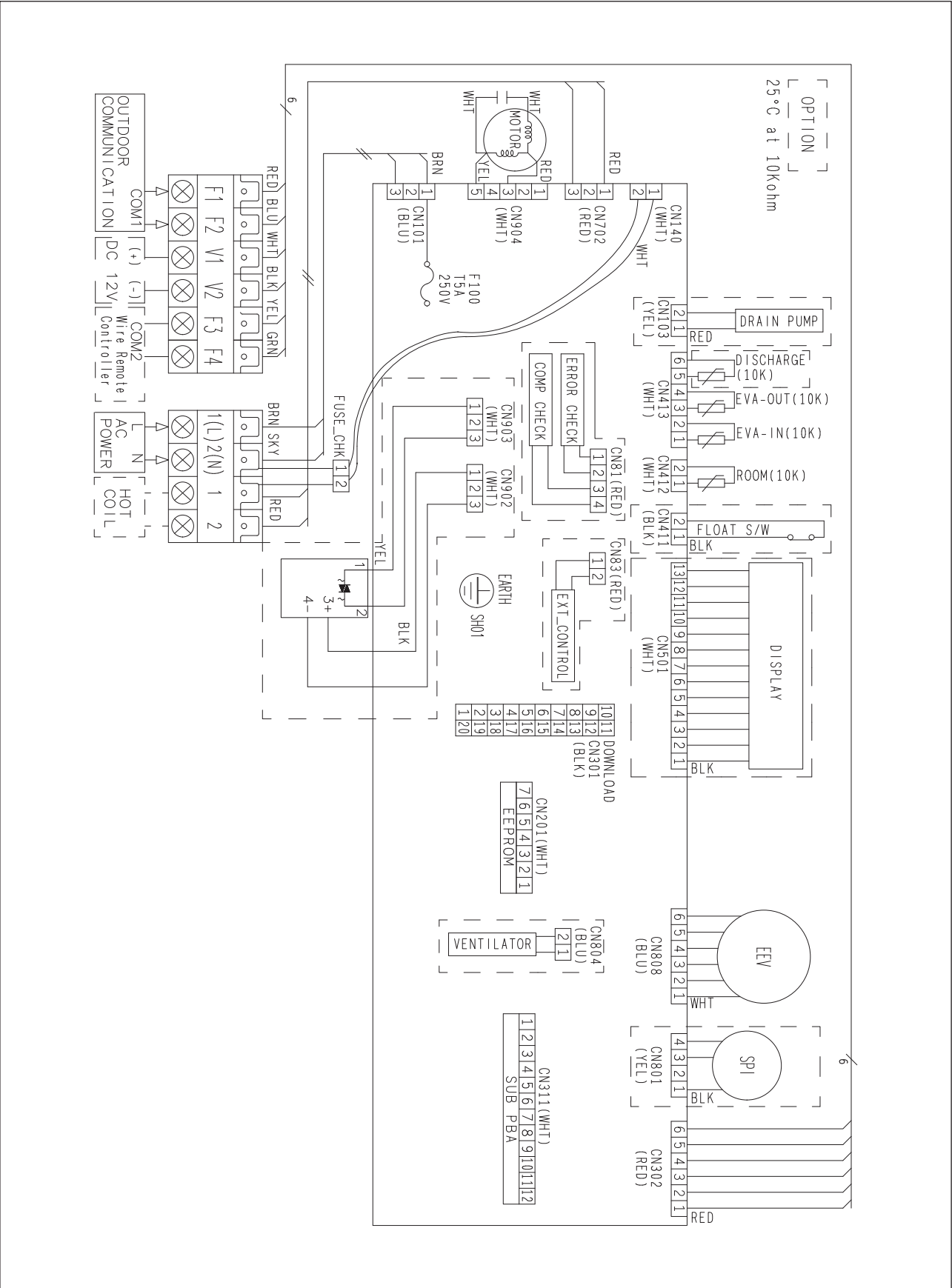
5) AM128/140FNMDEH***

Unit:mm



No.	Name	Description	
		12.8kW	14.0kW
①	Liquid pipe connection	Ø9.52 Flare	
②	Gas pipe connection	Ø15.88 Flare	
③	Drain pipe connection without optional drain pump kits	VP25 (OD 32, ID 25)	
④	Drain pipe connection with optional drain pump kits	VP25 (OD 32, ID 25)	
⑤	Control unit	-	
⑥	Conduit for power supply & communication wiring	-	
⑦	Return air side	-	
⑧	Air outlet duct flange	-	

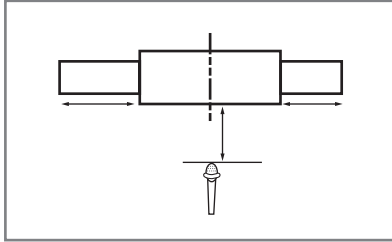
4-4. Electrical wiring diagram



MSP(Middle static pressure) duct

4-5. Sound pressure level

1) Operation sound level



Model	High	Low
AM022FNMDEH***	23	19
AM028FNMDEH***	24	19
AM036FNMDEH***	29	24
AM045FNMDEH***	32	28
AM056FNMDEH***	35	31

Unit : dB(A)

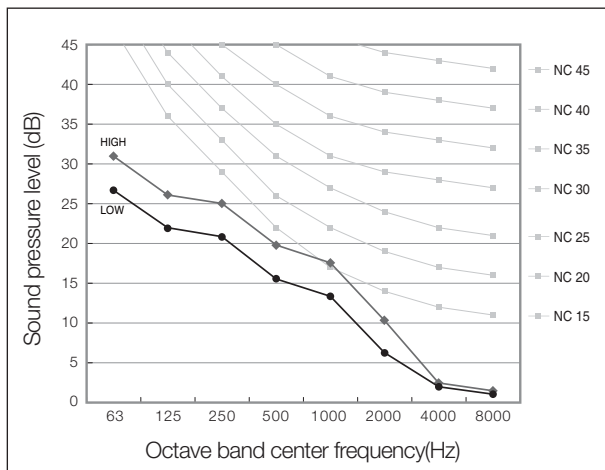
Model	High	Low
AM071FNMDEH***	39	31
AM090FNMDEH***	40	34
AM112FNMDEH***	41	38
AM128FNMDEH***	41	38
AM140FNMDEH***	42	36

✓ Note

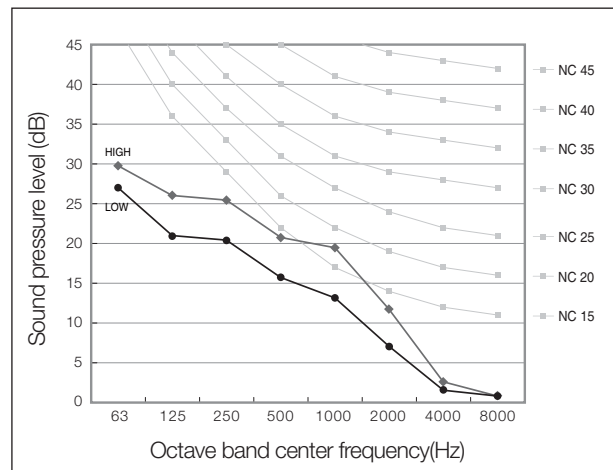
- ◆ These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- ◆ Operation sound level may differ depending on operation and ambient conditions.

2) NC curves

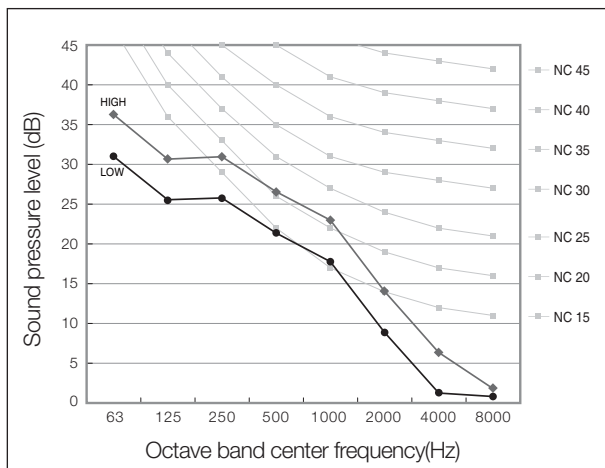
(1) AM022FNMDEH***



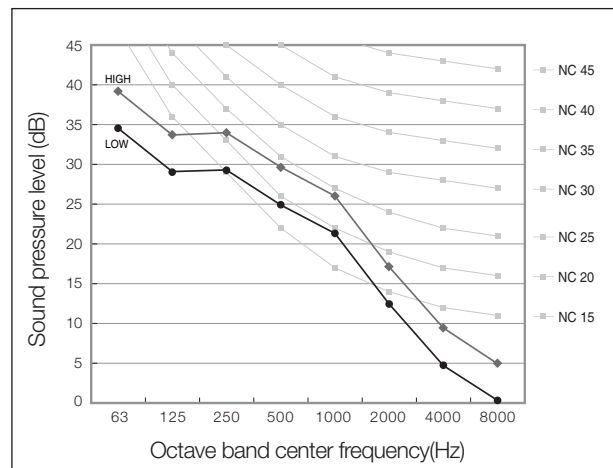
(2) AM028FNMDEH***



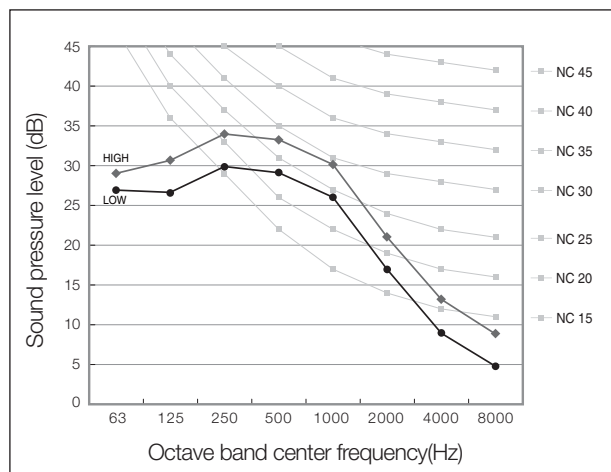
(3) AM036FNMDEH***



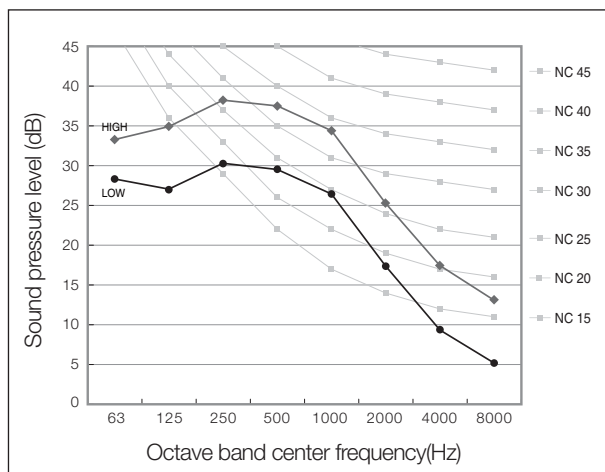
(4) AM045FNMDEH***



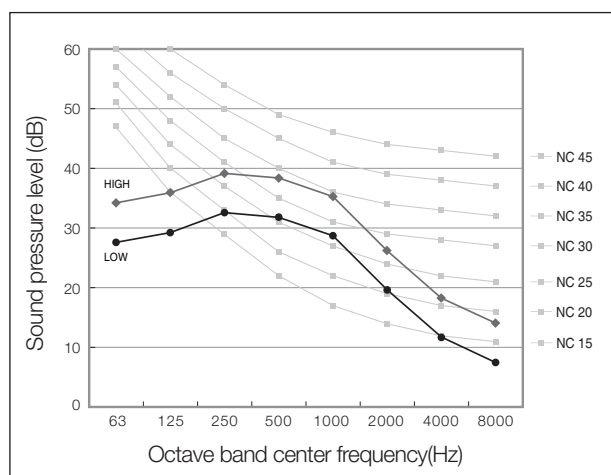
(5) AM056FNMDEH***



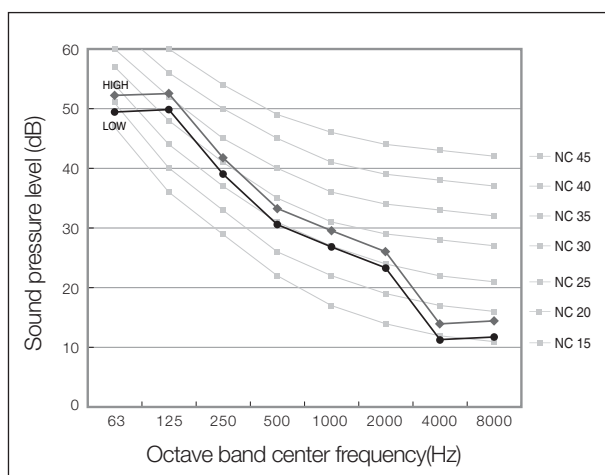
(6) AM071FNMDEH***



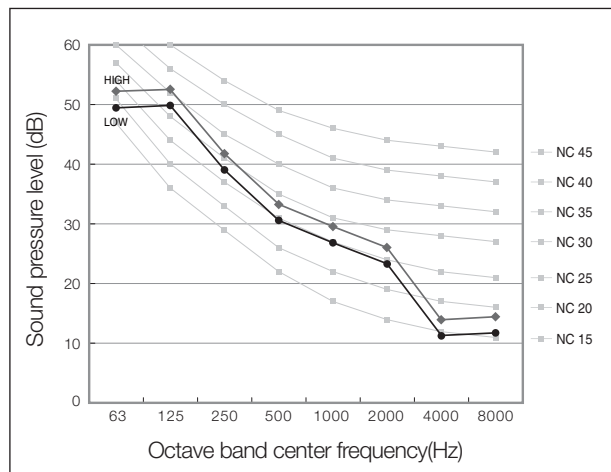
(7) AM090FNMDEH***



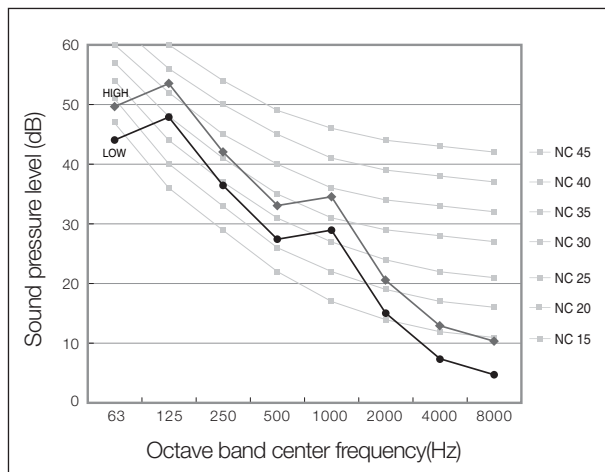
(8) AM112FNMDEH***



(9) AM128FNMDEH***

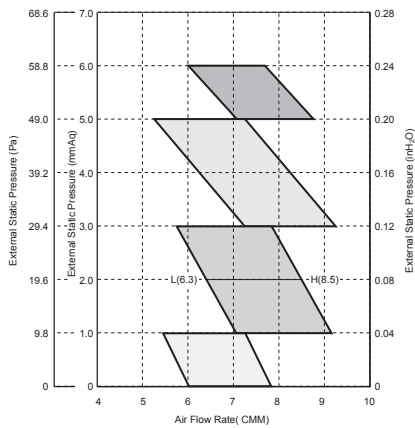


(10) AM140FNMDEH***



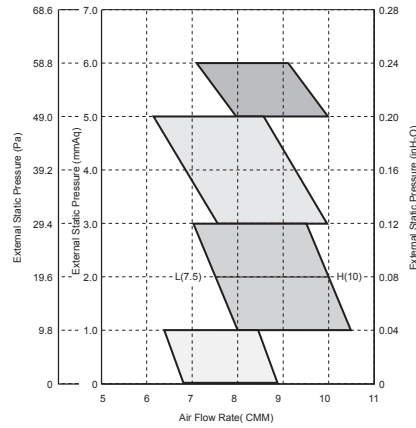
4-6. Recommended operation range

(1) AM022FNMDEH***



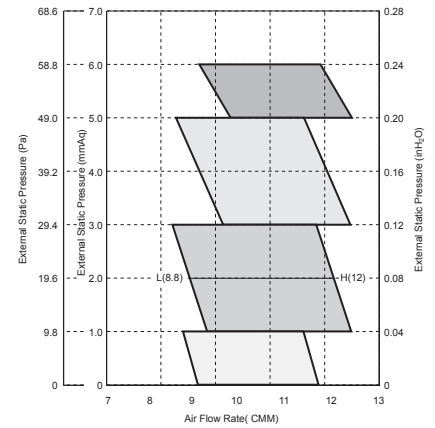
External Static pressure (mmAq)	Option code
0	010054-1350B6-201616-331110
2	010054-1350EA-201616-331110
4	010054-13541E-201616-331110
6	010054-1355E4-201616-331110

(2) AM028FNMDEH***



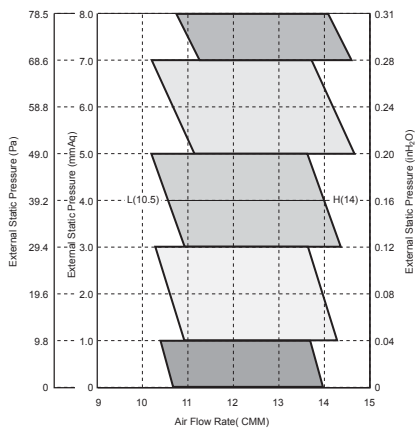
External Static pressure (mmAq)	Option code
0	010054-1350E8-201C1C-331110
2	010054-13542C-201C1C-331110
4	010054-135562-201C1C-331110
6	010054-1359A9-201C1C-331110

(3) AM036FNMDEH***



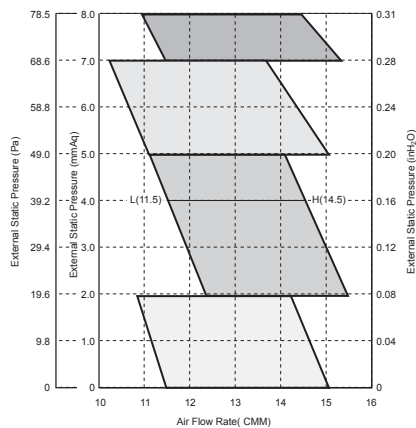
External Static pressure (mmAq)	Option code
0	010054-1350EA-202424-331110
2	010054-1350FB-202424-331110
4	010054-13542C-202424-331110
6	010054-1354CF-202424-331110

(4) AM045FNMDEH***



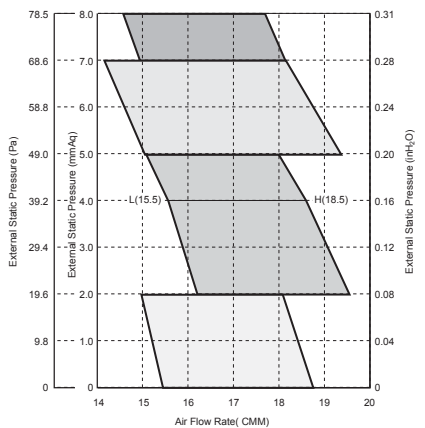
External Static pressure (mmAq)	Option code
0	010054-125550-202D2D-331110
2	010054-125571-202D2D-331110
4	010054-125583-202D2D-331110
6	010054-1255A4-202D2D-331110
8	010054-125906-202D2D-331110

(5) AM056FNMDEH***



External Static pressure (mmAq)	Option code
0	010054-125571-203838-331110
2	010054-125593-203838-331110
4	010054-1255C5-203838-331110
6	010054-1255F5-203838-331110
8	010054-125957-203838-331110

(6) AM071FNMDEH***

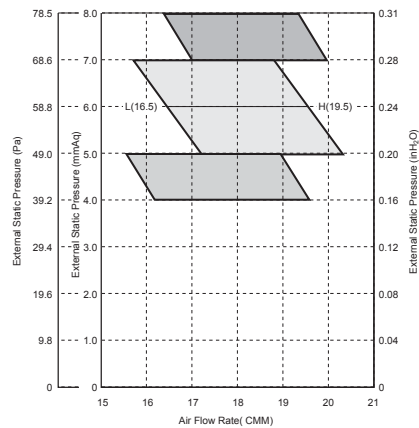


External Static pressure (mmAq)	Option code
0	010054-125904-204747-331110
2	010054-125936-204747-331110
4	010054-125979-204747-331110
6	010054-125DF9-204747-331110
8	010054-125DFC-204747-331110

**Note**

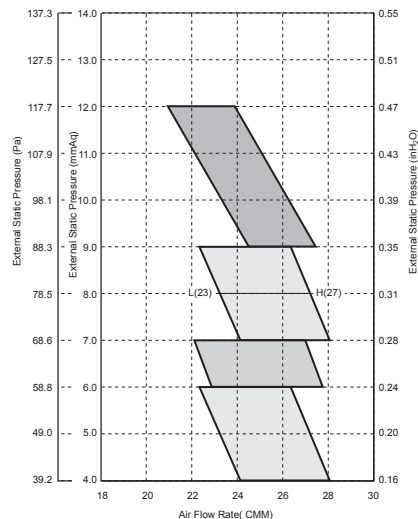
- ◆ ESP = External Static Pressure
- ◆ The graphs display the available external static pressure range of installed indoor units. Therefore, they do not reflect the actual change of external static pressure and airflow rate according to adjusted airflow (High-Mid-Low) of installed indoor units.

(7) AM090FNMDEH***



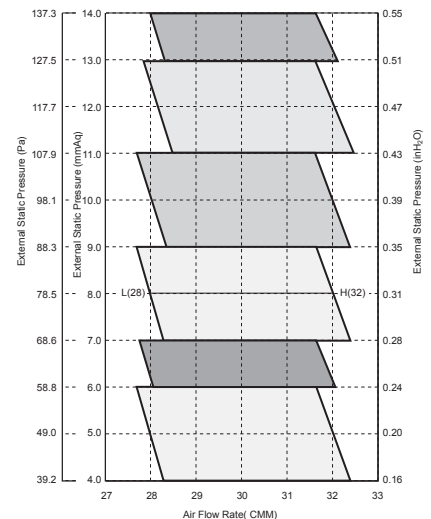
External Static pressure (mmAq)	Option code
4	010054-125945-205A5A-331110
6	010054-125D29-205A5A-331110
8	010054-125DFD-205A5A-331110

(8) AM112FNMDEH***



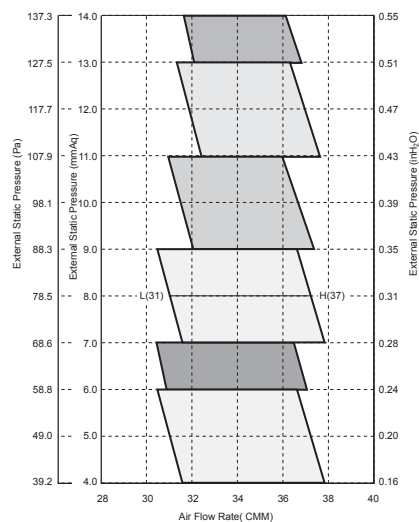
External Static pressure (mmAq)	Option code
4	010054-122E04-207070-331110
6	010054-122E26-207070-331110
8	010054-122EBB-207070-331110
10	010054-122FF0-207070-331110
12	010054-122FF0-207070-331110

(9) AM128FNMDEH***



External Static pressure (mmAq)	Option code
4	010054-12299F-208080-331110
6	010054-122AC1-208080-331110
8	010054-122AE3-208080-331110
10	010054-122E15-208080-331110
12	010054-122E47-208080-331110
14	010054-122E69-208080-331110

(10) AM140FNMDEH***



External Static pressure (mmAq)	Option code
4	010054-122AF2-208C8C-331110
6	010054-122E25-208C8C-331110
8	010054-122E57-208C8C-331110
10	010054-122E7A-208C8C-331110
12	010054-122EDD-208C8C-331110
14	010054-122EFF-208C8C-331110



Note

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



5 HSP(High static pressure) duct (AM***FNHDEH***)

- 5-1. Specifications.....
- 5-2. Capacity tables.....
- 5-3. Dimensional drawing.....
- 5-4. Electrical wiring diagram.....
- 5-5. Sound pressure level.....
- 5-6. Recommended operation range.....

5 HSP(High static pressure) duct

5-1. Specifications

1) Technical specifications

Model				AM112FNHDEH***	AM128FNHDEH***	AM140FNHDEH***	AM220FNHDEH***	AM280FNHDEH***
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
Mode*1)			–	HP / HR	HP / HR	HP / HR	HP/HR	HP/HR
Performance	Capacity (Nominal)	Cooling ⁽²⁾	kW	11.2	12.8	14.0	22.4	28.0
			Btu/h	38,200	43,700	47,800	76,400	95,500
		Heating ⁽³⁾	kW	12.5	13.8	16.8	25.0	31.5
			Btu/h	42,700	47,100	57,300	85,300	107,500
Power	Power Input (Nominal)	Cooling ⁽²⁾	W	510	560	625	530	790
		Heating ⁽³⁾		510	560	625	530	790
	Current Input (Nominal)	Cooling ⁽²⁾	A	3.6	3.75	3.9	3.8	5.9
		Heating ⁽³⁾		3.6	3.75	3.9	3.8	5.9
Fan	Motor	Type	–	Sirocco Fan / AC	Sirocco Fan / AC	Sirocco Fan / AC	Sirocco Fan	Sirocco Fan
		Output	W	–	–	–	400	400
		Number of unit	EA	2	2	2	1	1
	Air Flow Rate	H/M/L (UL)	CMM	32 / 27 / 23	35 / 31 / 26	39 / 33 / 28	58.00/52.00/47.00	72.00/65.00/58.00
			l/s	533.33/450.00/383.33	583.33/516.67/466.67	650.00/550.00/466.67	966.67/866.67/783.33	1,200.00/1,083.33/966.67
	External Pressure	Min / Std / Max	mmAq	5 / 10 / 20	5 / 10 / 20	5 / 10 / 20	5.00/15.00/25.00	5.00/15.00/28.00
			Pa	49 / 98.1 / 196.1	49 / 98.1 / 196.1	49 / 98.1 / 196.1	49.03/147.10/245.17	49.03/147.10/274.59
			WG	–	–	–	–	–
Option Code			–	010054-13598F-207070-331110	010054-135AC4-207070-331110	010054-135E09-207C7C-331110	011054-1950E8-20DCDC-331110	011054-19545B-231C1C-331110
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	19.05	22.23
			Ø, inch	5/8	5/8	5/8	3/4	7/8
	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)
Field Wiring	Power Source Wire	Below 20m / over 20m	mm ²	1.5 / 2.5	1.5 / 2.5	1.5 / 2.5	1.5 / 2.5	1.5 / 2.5
	Transmission Cable		mm ²	0.75~1.5	0.75~1.5	0.75~1.5	0.75~1.5	0.75~1.5
Refrigerant	Type		–	R410A	R410A	R410A	R410A	R410A
	Control Method		–	EEV	EEV	EEV	EEV INCLUDED	EEV INCLUDED
Sound	Sound Pressure	High / Mid / Low ⁽⁴⁾	dBA	43 / 41 / 39	45 / 43 / 42	46 /45 / 44	45 / 43 / 41	48 / 46 / 43
Dimensions	Net Weight		kg	62	62	62	89.00	89.00
	Shipping Weight		kg	70	70	70	99.00	99.00
	Net Dimensions (W×H×D)		mm	1,200 x 360 x 650	1,200 x 360 x 650	1,200 x 360 x 650	1240 x 470 x 1040	1240 x 470 x 1040
	Shipping Dimensions (W×H×D)		mm	1,447 x 425 x 769	1,447 x 425 x 769	1,447 x 425 x 769	1507 x 558 x 1155	1507 x 558 x 1155
Panel Size	Panel model		–	–	–	–	–	–
	Panel Net Weight		kg	–	–	–	–	–
	Shipping Weight		kg	–	–	–	–	–
	Net Dimensions (W×H×D)		mm	–	–	–	–	–
	Shipping Dimensions (W×H×D)		mm	–	–	–	–	–
Additional Accessories	Drain pump	Drain pump	– / Model	Optional / MDP-M075SGU2	Optional / MDP-M075SGU2	Optional / MDP-M075SGU2	MDP-N047SNC1D	MDP-N047SNC1D
		Max. lifting Height / Displacement	mm/liter/h	750 / 24	750 / 24	750 / 24	750 / 24	750 / 24
	Air Filter		–	Long life filter	Long life filter	Long life filter	–	–

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

*1) Mode

– HP : Heat Pump, HR : Heat Recovery

*2) Nominal cooling capacities are based on:

– Indoor temperature : 27°C DB, 19°C WB

– Outdoor temperature : 35°C DB, 24°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

*3) Nominal heating capacities are based on:

– Indoor temperature : 20°C DB, 15°C WB

– Outdoor temperature : 7°C DB, 6°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

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

*5) These products contain R410A which is fluorinated greenhouse gas.

5-2. Capacity tables

1) Cooling

TC : Total Capacity(kW), SHC : Sensible Heat Capacity(kW)

Model	Outdoor temperature (°C, DB)	Indoor temperature (°C, WB)													
		20 (°C, DB)		23 (°C, DB)		26 (°C, DB)		27 (°C, DB)		28 (°C, DB)		30 (°C, DB)		32 (°C, DB)	
		14 (°C, WB)		16 (°C, WB)		18 (°C, WB)		19 (°C, WB)		20 (°C, WB)		22 (°C, WB)		24 (°C, WB)	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
112	10	8.5	7.0	9.3	7.5	10.7	8.3	11.2	8.5	11.7	8.6	12.5	8.3	13.6	8.4
	12	8.5	7.0	9.3	7.5	10.7	8.3	11.2	8.5	11.7	8.6	12.5	8.3	13.6	8.4
	14	8.5	7.0	9.3	7.5	10.7	8.3	11.2	8.5	11.7	8.6	12.5	8.3	13.5	8.3
	16	8.5	7.0	9.3	7.5	10.7	8.3	11.2	8.5	11.7	8.6	12.5	8.3	13.5	8.3
	18	8.5	7.0	9.3	7.5	10.7	8.3	11.2	8.5	11.7	8.6	12.4	8.2	13.4	8.3
	20	8.5	7.0	9.3	7.5	10.7	8.3	11.2	8.5	11.7	8.6	12.4	8.2	13.4	8.3
	21	8.5	7.0	9.3	7.5	10.7	8.3	11.2	8.5	11.7	8.6	12.4	8.2	13.4	8.3
	23	8.5	7.0	9.3	7.5	10.7	8.3	11.2	8.5	11.7	8.6	12.4	8.2	13.4	8.3
	25	8.5	7.0	9.3	7.5	10.7	8.3	11.2	8.5	11.7	8.6	12.4	8.2	13.4	8.3
	27	8.5	7.0	9.3	7.5	10.7	8.3	11.2	8.5	11.7	8.6	12.4	8.2	13.4	8.3
	29	8.5	7.0	9.3	7.5	10.7	8.3	11.2	8.5	11.7	8.6	12.4	8.2	13.4	8.3
	31	8.5	7.0	9.3	7.5	10.7	8.3	11.2	8.5	11.7	8.6	12.4	8.2	13.4	8.3
	33	8.5	7.0	9.3	7.5	10.7	8.3	11.2	8.5	11.7	8.6	12.4	8.2	13.4	8.3
	35	8.5	7.0	9.3	7.5	10.7	8.3	11.2	8.5	11.7	8.6	12.4	8.2	13.4	8.3
	37	8.5	7.0	9.3	7.5	10.7	8.3	11.2	8.5	11.7	8.6	12.3	8.2	13.2	8.2
	39	8.5	7.0	9.3	7.5	10.7	8.3	11.2	8.5	11.6	8.5	12.1	8.0	13.0	8.0
	42	8.5	7.0	9.3	7.5	10.7	8.3	10.9	8.3	11.3	8.3	11.6	7.7	12.6	7.8
	44	8.5	7.0	9.3	7.5	10.7	8.3	10.9	8.3	11.3	8.3	11.6	7.7	12.4	7.7
128	10	9.7	8.0	10.4	8.3	12.0	8.9	12.8	10.0	13.3	10.0	14.3	9.8	15.4	9.8
	12	9.7	8.0	10.4	8.3	12.0	8.9	12.8	10.0	13.3	10.0	14.3	9.8	15.3	9.7
	14	9.7	8.0	10.4	8.3	12.0	8.9	12.8	10.0	13.3	10.0	14.3	9.8	15.3	9.7
	16	9.7	8.2	10.4	8.3	12.0	8.9	12.8	10.0	13.3	10.0	14.2	9.7	15.2	9.6
	18	9.7	8.2	10.4	8.3	12.0	8.9	12.8	10.0	13.3	10.0	14.2	9.7	15.1	9.6
	20	9.7	8.2	10.4	8.3	12.0	8.9	12.8	10.0	13.3	10.0	14.2	9.7	15.1	9.6
	21	9.7	8.2	10.4	8.3	12.0	8.9	12.8	10.0	13.3	10.0	14.2	9.7	15.1	9.6
	23	9.7	8.2	10.4	8.3	12.0	8.9	12.8	10.0	13.3	10.0	14.2	9.7	15.1	9.6
	25	9.7	8.2	10.4	8.3	12.0	8.9	12.8	10.0	13.3	10.0	14.2	9.7	15.1	9.6
	27	9.7	8.2	10.4	8.3	12.0	8.9	12.8	10.0	13.3	10.0	14.2	9.7	15.1	9.6
	29	9.7	8.2	10.4	8.3	12.0	8.9	12.8	10.0	13.3	10.0	14.2	9.7	15.1	9.6
	31	9.7	8.2	10.4	8.3	12.0	8.9	12.8	10.0	13.3	10.0	14.2	9.7	15.1	9.6
	33	9.7	8.2	10.4	8.3	12.0	8.9	12.8	10.0	13.3	10.0	14.2	9.7	15.1	9.6
	35	9.7	8.2	10.4	8.3	12.0	8.9	12.8	10.0	13.3	10.0	14.2	9.7	15.1	9.6
	37	9.7	8.2	10.4	8.3	12.0	8.9	12.8	10.0	13.2	9.9	14.0	9.6	14.9	9.4
	39	9.7	8.2	10.4	8.3	12.0	8.9	12.8	10.0	13.1	9.8	13.8	9.4	14.5	9.2
	42	9.7	8.2	10.4	8.3	12.0	8.9	12.4	9.7	12.7	9.5	13.2	9.0	13.7	8.7
	44	9.7	8.2	10.4	8.3	12.0	8.9	12.4	9.7	12.7	9.5	13.2	9.0	13.7	8.7
140	10	10.5	9.1	11.6	9.9	13.3	10.9	14.0	11.2	14.7	11.3	15.7	11.0	16.8	10.9
	12	10.5	9.1	11.6	9.9	13.3	10.9	14.0	11.2	14.6	11.2	15.6	10.9	16.7	10.9
	14	10.5	9.1	11.6	9.9	13.3	10.9	14.0	11.2	14.6	11.2	15.6	10.9	16.7	10.9
	16	10.5	9.1	11.6	9.9	13.3	10.9	14.0	11.2	14.6	11.2	15.6	10.9	16.6	10.8
	18	10.5	9.1	11.6	9.9	13.3	10.9	14.0	11.2	14.6	11.2	15.5	10.9	16.6	10.8
	20	10.5	9.1	11.6	9.9	13.3	10.9	14.0	11.2	14.6	11.2	15.5	10.9	16.5	10.7
	21	10.5	9.1	11.6	9.9	13.3	10.9	14.0	11.2	14.6	11.2	15.5	10.9	16.5	10.7
	23	10.5	9.1	11.6	9.9	13.3	10.9	14.0	11.2	14.6	11.2	15.5	10.9	16.5	10.7
	25	10.5	9.1	11.6	9.9	13.3	10.9	14.0	11.2	14.6	11.2	15.5	10.9	16.5	10.7
	27	10.5	9.1	11.6	9.9	13.3	10.9	14.0	11.2	14.6	11.2	15.5	10.9	16.5	10.7
	29	10.5	9.1	11.6	9.9	13.3	10.9	14.0	11.2	14.6	11.2	15.5	10.9	16.5	10.7
	31	10.5	9.1	11.6	9.9	13.3	10.9	14.0	11.2	14.6	11.2	15.5	10.9	16.5	10.7
	33	10.5	9.1	11.6	9.9	13.3	10.9	14.0	11.2	14.6	11.2	15.5	10.9	16.5	10.7
	35	10.5	9.1	11.6	9.9	13.3	10.9	14.0	11.2	14.6	11.2	15.5	10.9	16.5	10.7
	37	10.5	9.1	11.6	9.9	13.3	10.9	14.0	11.2	14.6	11.2	15.4	10.8	16.3	10.6
	39	10.5	9.1	11.6	9.9	13.3	10.9	14.0	11.2	14.5	11.2	15.1	10.6	15.9	10.3
	42	10.5	9.1	11.6	9.9	13.3	10.9	13.6	10.9	14.1	10.9	14.4	10.1	15.0	9.8
	44	10.5	9.1	11.6	9.9	13.3	10.9	13.6	10.9	14.1	10.9	14.4	10.1	15.0	9.8
220	10	15.8	13.8	18.7	15.4	21.2	16.6	22.4	17.1	23.9	17.7	26.4	18.1	27.9	18.3
	12	15.8	13.8	18.7	15.4	21.2	16.6	22.4	17.1	23.9	17.8	26.4	18.2	27.9	18.4
	14	15.8	13.8	18.7	15.4	21.2	16.6	22.4	17.1	23.9	17.8	26.4	18.2	27.9	18.1
	16	15.8	13.8	18.7	15.4	21.2	16.6	22.4	17.1	23.9	17.8	26.4	18.2	27.9	18.3
	18	15.8	13.8	18.7	15.4	21.2	16.6	22.4	17.1	23.9	17.8	26.4	18.2	27.8	18.1
	20	15.8	13.8	18.7	15.4	21.2	16.6	22.4	17.1	23.9	17.8	26.4	18.2	27.4	18.0
	21	15.8	13.8	18.7	15.4	21.2	16.6	22.4	17.1	23.9	17.8	26.4	18.2	27.5	18.0
	23	15.8	13.8	18.7	15.4	21.2	16.6	22.4	17.1	23.9	17.8	26.4	18.3	27.1	17.7
	25	15.8	13.8	18.7	15.4	21.2	16.6	22.4	17.1	23.9	17.8	26.4	18.2	27.0	17.8
	27	15.8	13.8	18.7	15.4	21.2	16.6	22.4	17.1	23.9	17.8	26.4	18.2	27.0	17.8
	29	15.8	13.8	18.7	15.4	21.2	16.6	22.4	17.1	23.9	17.8	26.4	18.2	27.0	17.8
	31	15.8	13.8	18.7	15.4	21.2	16.6	22.4	17.1	23.9	17.8	26.4	18.3	27.0	17.8
	33	15.8	13.8	18.7	15.4	21.2	16.6	22.4	17.1	23.9	17.8	26.4	18.5	27.0	17.8
	35	15.8	13.8	18.7	15.4	21.2	16.6	22.4	17.1	23.9	17.7	26.4	18.5	27.0	18.0
	37	15.5	13.6	18.4	15.2	21.1	16.5	22.4	17.1	23.7	17.7	26.0	18.2	26.6	17.6
	39	15.3	13.5	18.1	15.0	21.1	16.5	22.3	17.0	23.7	17.7	25.7	18.4	26.2	17.5
	42	15.0	13.2	17.8	14.7	20.7	16.2	21.9	16.7	23.3	17.5	25.2	18.1	25.7	17.3
	44	14.8	13.0	17.5	14.5	20.4	15.9	21.6	16.4	22.9	17.3	24.8	17.9	25.3	17.0
	46	14.5	12.7	17.2	14.2	20.0	15.6	21.2	16.1	22.5	16.9	24.4	17.5	24.8	16.6
280	10	19.7	17.6	23.3	19.6	26.5	21.2	28.0	21.8	29.9	22.6	32.7	23.0	34.7	23.2
	12	19.7	17.6	23.3	19.6	26.5	21.2	28.0	21.8	29.9	22.8	32.7	23.1	34.7	23.4
	14	19.7	17.6	23.3	19.6	26.5	21.2	28.0	21.8	29.9	22.8	32.7	23.1	34.7	23.0
	16	19.7	17.6	23.3	19.6	26.5	21.2	28.0	21.8	29.9	22.8	32.7	23.1	34.7	23.3
	18	19.7	17.6	23.3	19.6	26.5	21.2	28.0	21.8	29.9	22.8	32.7	23.0	34.7	23.1
	20	19.7	17.6	23.3	19.6	26.5	21.2	28.0	21.8	29.9	22.8	32.7	23.0	34.3	23.0
	21	19.7	17.6	23.3	19.6	26.5	21.2	28.0	21.8	29.9	22.8	32.7	23.0	34.3	22.9
	23	19.7													

5 HSP(High static pressure) duct

5-2. Capacity tables

2) Heating

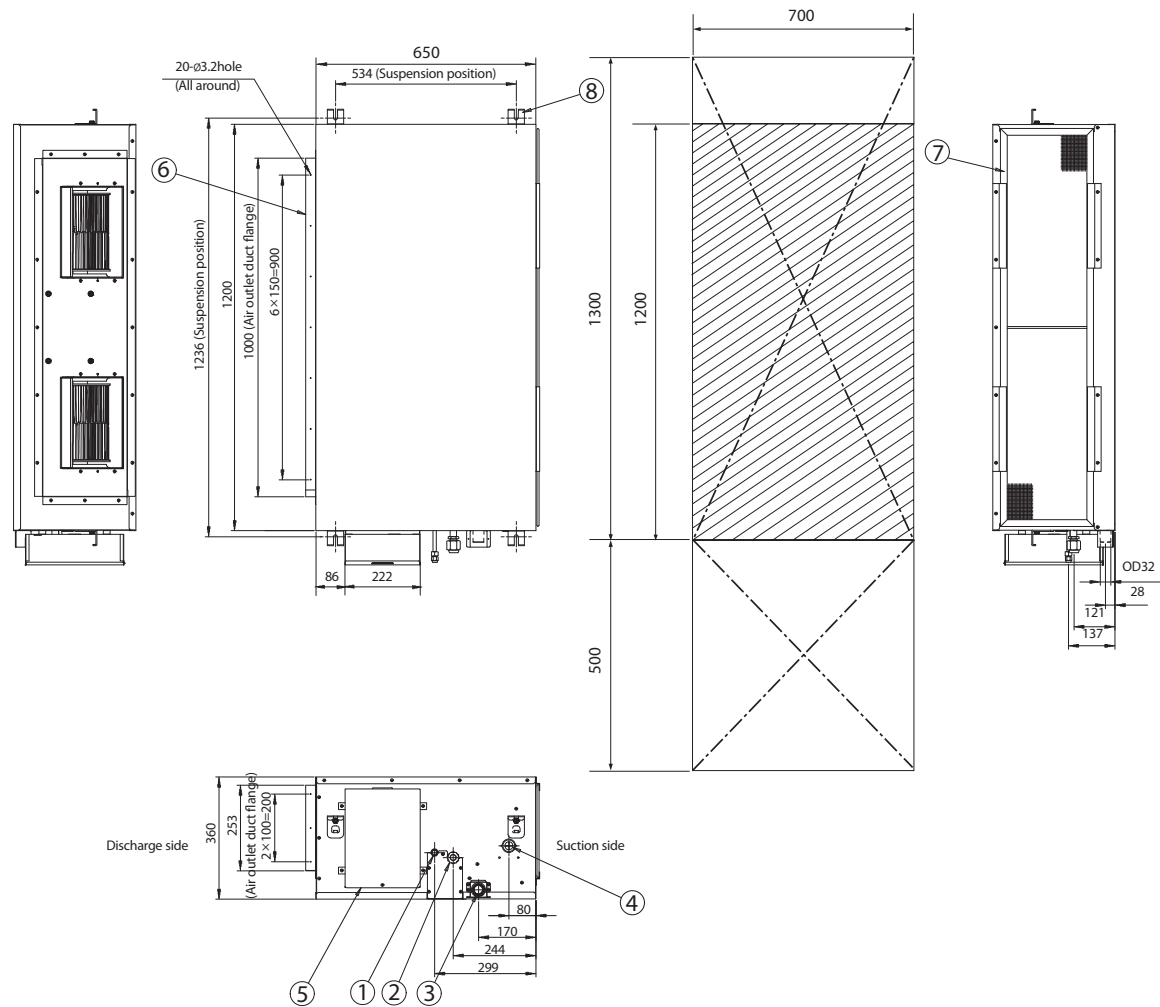
TC : Total Capacity(kW)

Model	Outdoor temperature (°C, DB)		Indoor temperature (°C, DB)				
			16.0	18.0	20.0	22.0	24.0
			TC	TC	TC	TC	TC
	DB	WB	kW	kW	kW	kW	kW
112	-20	-21	7.2	6.9	6.6	6.5	6.5
	-17	-18	8.0	7.6	7.4	7.3	7.3
	-15	-16	8.4	8.1	7.9	7.7	7.5
	-12	-13	8.8	8.6	8.4	8.2	8.1
	-10	-11	9.2	9.0	8.9	8.8	8.7
	-7	-8	9.7	9.6	9.4	9.2	9.0
	-5	-6	10.2	10.1	9.9	9.6	9.3
	-3	-4	10.7	10.6	10.5	10.1	9.7
	0	-1	11.3	11.1	11.1	10.5	10.0
	3	2.2	11.8	11.6	11.5	11.0	10.6
	5	4.1	12.3	12.2	12.0	11.3	10.6
	7	6	12.9	12.7	12.5	11.5	10.6
	9	7.9	13.3	12.9	12.5	11.5	10.6
	11	9.8	13.7	13.1	12.5	11.5	10.6
	13	12	14.0	13.3	12.5	11.5	10.6
	15	14	14.4	13.5	12.5	11.5	10.6
128	-20	-21	7.9	7.7	7.3	7.2	7.2
	-17	-18	8.8	8.5	8.1	8.0	8.0
	-15	-16	9.2	9.0	8.7	8.5	8.2
	-12	-13	9.7	9.5	9.3	9.1	8.9
	-10	-11	10.1	10.0	9.9	9.7	9.6
	-7	-8	10.7	10.6	10.4	10.2	10.0
	-5	-6	11.3	11.1	11.0	10.7	10.3
	-3	-4	11.9	11.7	11.5	11.1	10.7
	0	-1	12.4	12.3	12.1	11.6	11.0
	3	2.2	13.0	12.9	12.7	12.2	11.7
	5	4.1	13.6	13.4	13.2	12.4	11.7
	7	6	14.2	14.0	13.8	12.7	11.7
	9	7.9	14.6	14.2	13.8	12.7	11.7
	11	9.8	15.1	14.4	13.8	12.7	11.7
	13	12	15.5	14.7	13.8	12.7	11.7
	15	14	15.9	14.9	13.8	12.7	11.7
140	-20	-21	9.2	8.9	8.5	8.4	8.4
	-17	-18	10.2	9.8	9.4	9.3	9.3
	-15	-16	10.7	10.4	10.1	9.8	9.5
	-12	-13	11.2	11.0	10.8	10.6	10.3
	-10	-11	11.7	11.6	11.4	11.3	11.1
	-7	-8	12.4	12.2	12.1	11.8	11.5
	-5	-6	13.1	12.9	12.7	12.3	12.0
	-3	-4	13.8	13.6	13.4	12.9	12.4
	0	-1	14.4	14.2	14.0	13.4	12.8
	3	2.2	15.1	14.9	14.7	14.1	13.5
	5	4.1	15.8	15.6	15.3	14.4	13.5
	7	6	16.5	16.2	16.0	14.8	13.5
	9	7.9	17.0	16.5	16.0	14.8	13.5
	11	9.8	17.5	16.7	16.0	14.8	13.5
	13	12	18.0	17.0	16.0	14.8	13.5
	15	14	18.5	17.2	16.0	14.8	13.5
220	-20	-21	20.3	19.5	18.4	17.5	16.8
	-17	-18	20.8	20.0	18.9	18.4	18.2
	-15	-16	21.6	20.7	19.6	19.1	18.8
	-12	-13	23.0	22.1	20.9	20.2	20.0
	-10	-11	24.7	23.7	22.4	21.4	21.1
	-7	-8	25.4	24.4	23.0	22.3	22.0
	-5	-6	26.2	25.2	23.7	23.2	22.6
	-3	-4	26.8	25.8	24.3	24.1	23.1
	0	-1	27.4	26.5	24.9	24.3	23.7
	3	2	28.0	27.0	25.0	24.4	23.6
	5	4	28.3	27.0	25.0	24.4	23.6
	7	6	28.8	27.0	25.0	24.4	23.6
	9	8	28.8	27.0	25.0	24.4	23.6
	11	10	28.8	27.0	25.0	24.4	23.6
	13	12	28.8	27.0	25.0	24.4	23.6
	15	14	28.8	27.0	25.0	24.4	23.6
280	-20	-21	25.4	24.4	23.0	21.9	21.0
	-17	-18	26.0	25.0	23.6	22.9	22.5
	-15	-16	27.0	25.9	24.5	23.8	23.3
	-12	-13	28.8	27.7	26.1	25.2	24.8
	-10	-11	30.9	29.7	28.0	26.8	26.4
	-7	-8	31.8	30.5	28.8	27.9	27.3
	-5	-6	32.7	31.5	29.7	29.0	28.1
	-3	-4	33.5	32.2	30.4	29.8	28.7
	0	-1	34.3	33.1	31.1	30.4	29.3
	3	2	35.0	33.7	31.5	30.4	29.5
	5	4	35.3	33.7	31.5	30.4	29.5
	7	6	35.7	33.7	31.5	30.4	29.5
	9	8	35.7	33.7	31.5	30.4	29.5
	11	10	35.7	33.7	31.5	30.4	29.5
	13	12	35.7	33.7	31.5	30.4	29.5
	15	14	35.7	33.7	31.5	30.4	29.5

5-3. Dimensional drawing

1) AM112/128/140FNHDEH***

Unit:mm



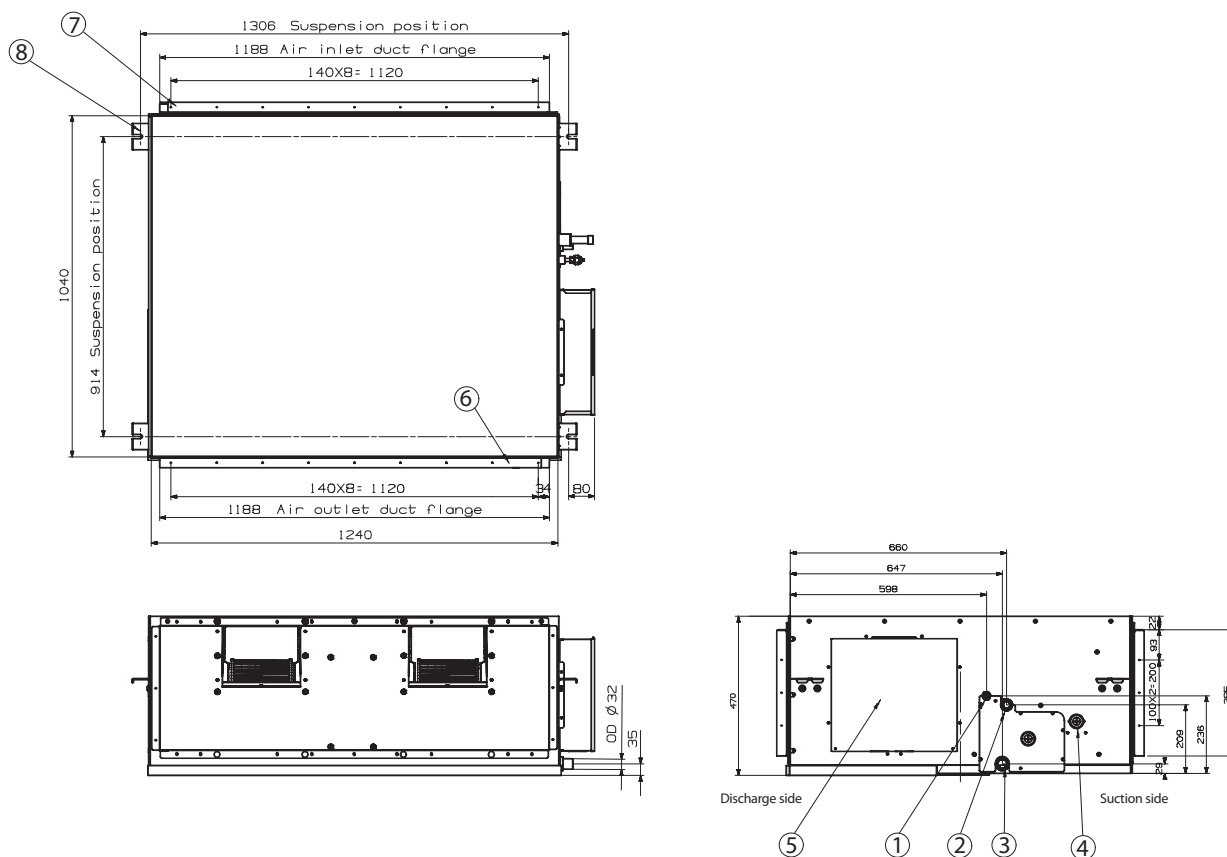
No.	Name	Description
①	Liquid pipe connection	Ø9.52 (3/8")
②	Gas pipe connection	Ø15.88 (5/8")
③	Drain pipe connection without optional drain pump kits	VP25 (OD 32, ID 25)
④	Drain pipe connection with optional drain pump kits	VP25 (OD 32, ID 25)
⑤	Power supply/Communication connection	
⑥	Air discharge grille flange	
⑦	Suction flange	
⑧	Hook	3/8" or M10

5 HSP(High static pressure) duct

5-3. Dimensional drawing

2) AM220/280FNHDEH***

Unit:mm

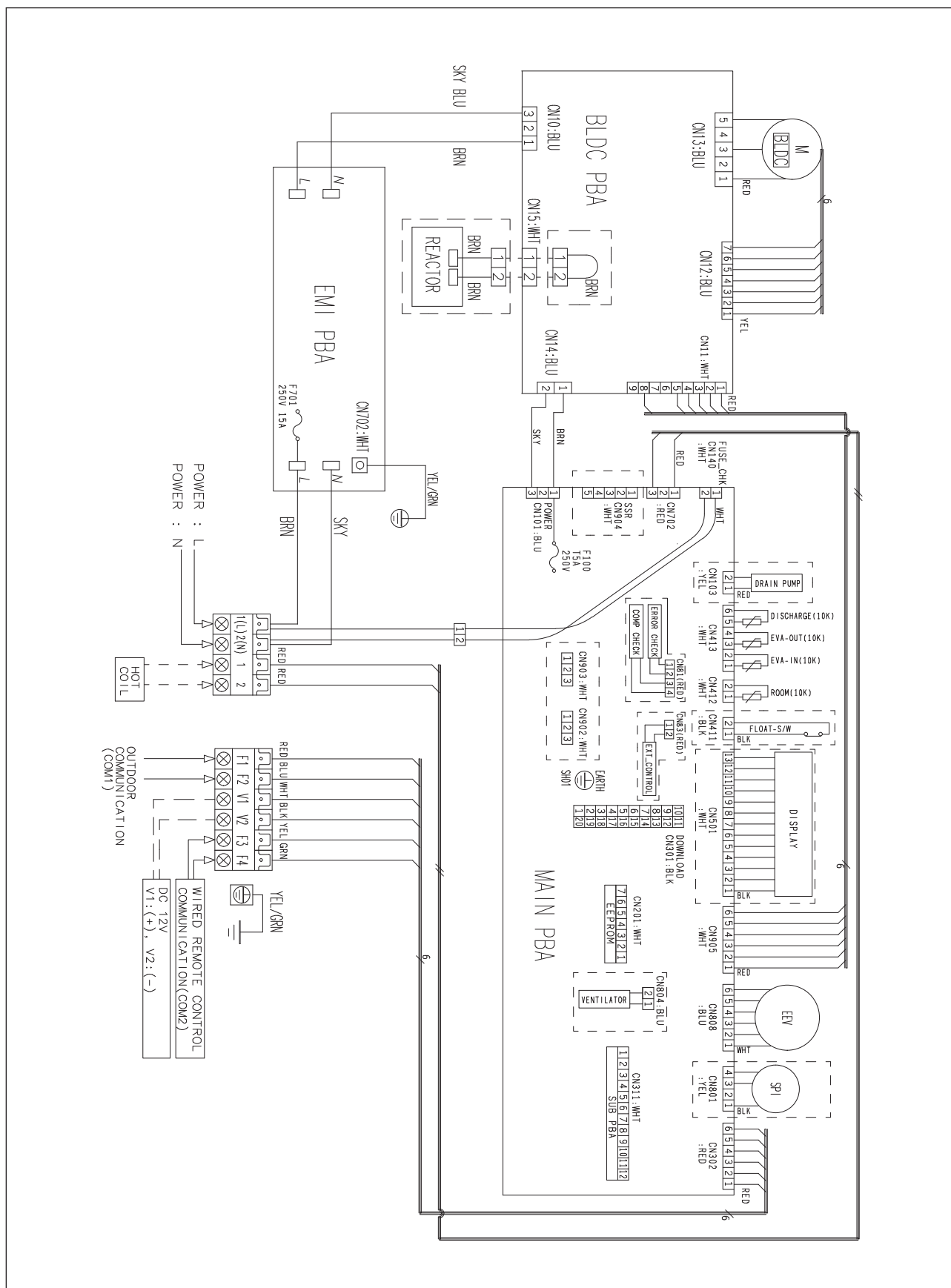


No.	Name	Description
①	Liquid pipe connection	Ø9.52 (3/8")
②	Gas pipe connection	AM220*** : Ø19.05 (3/4") AM280*** : Ø22.22 (7/8")
③	Drain pipe connection without optional drain pump kits	VP25 (OD 32, ID 25)
④	Drain pipe connection with optional drain pump kits	VP25 (OD 32, ID 25)
⑤	Power supply/Communication connection	
⑥	Air discharge grille flange	
⑦	Suction flange	
⑧	Hook	3/8" or M10

1) AM112/128/140FNHDEH***

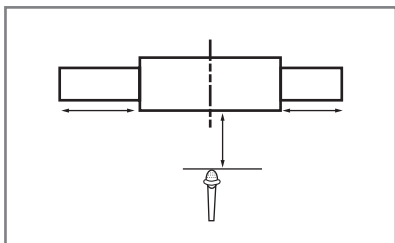


2) AM220/280FNHDEH***



5-5. Sound pressure level

1) Operation sound level



Unit : dB(A)

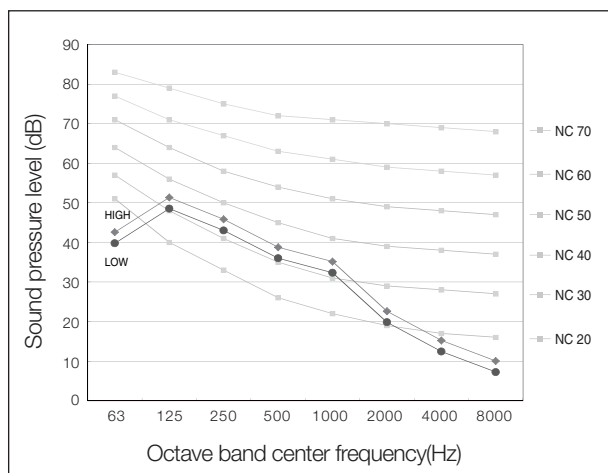
Model	High	Low
AM112FNHDEH***	43	39
AM128FNHDEH***	45	42
AM140FNHDEH***	46	44
AM220FNHDEH***	45	41
AM280FNHDEH***	48	43

☒ Note

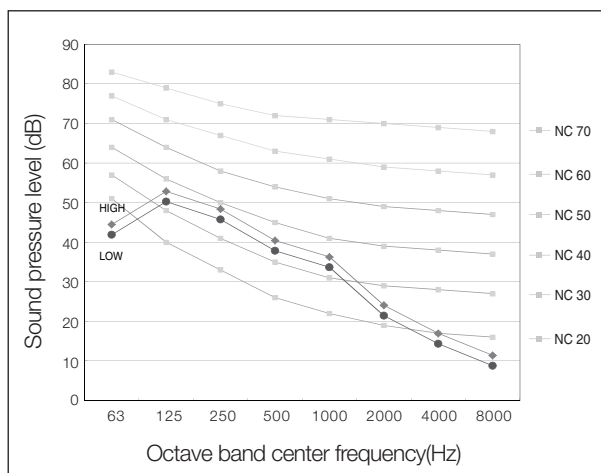
- ◆ These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- ◆ Operation sound level may differ depending on operation and ambient conditions.

2) NC curves

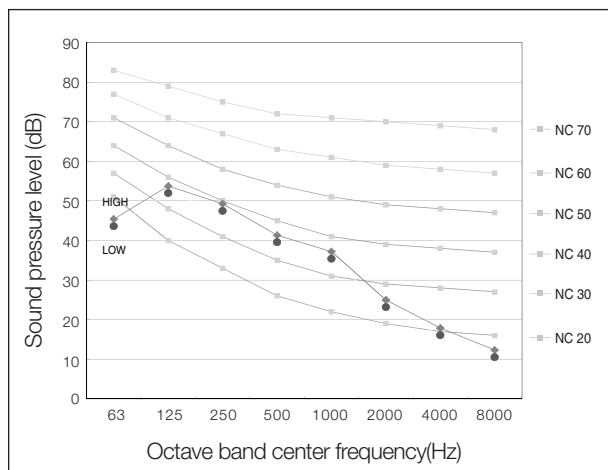
(1) AM112FNHDEH***



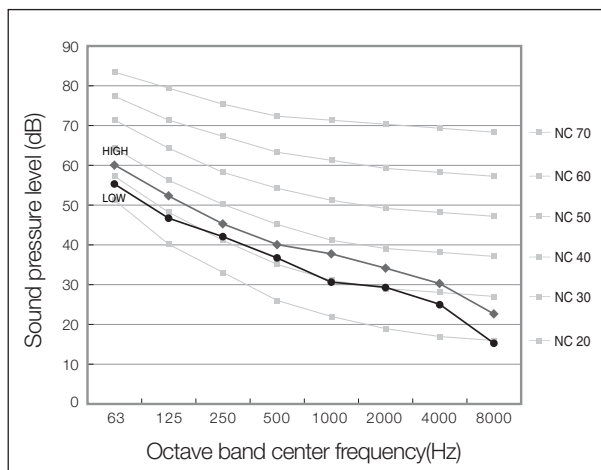
(2) AM128FNHDEH***



3) AM140FNHDEH***

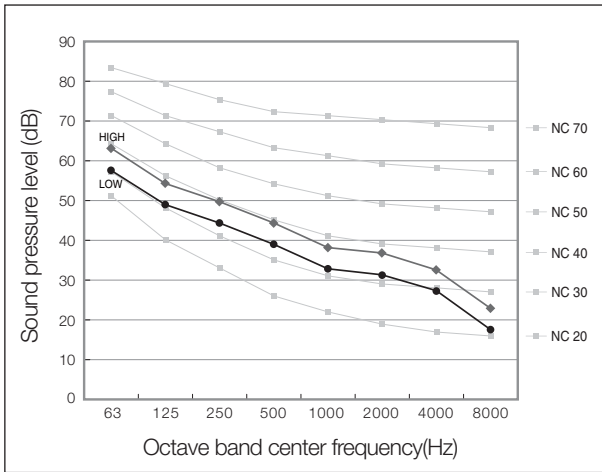


(4) AM220FNHDEH***



5 HSP(High static pressure) duct

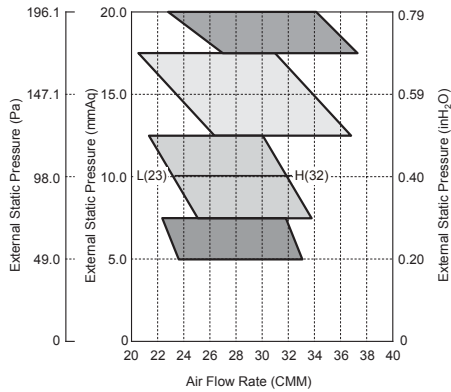
(5) AM280FNHDEH***



5-6. Recommended operation range

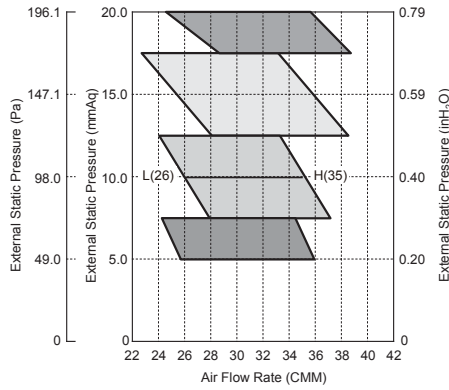
◆ Adjust option code according to the actual installation condition (external static pressure).

(1) AM112FNHDEH***



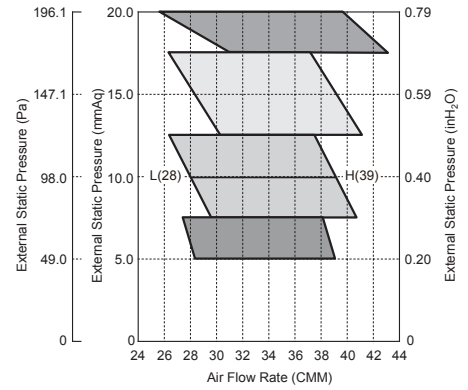
ESP (mmAq)	Option code
5	010054-1355E8-207070-331110
10	010054-13598F-207070-331110
15	010054-135E19-207070-331110
20	010054-135F70-207070-331110

(2) AM128FNHDEH***



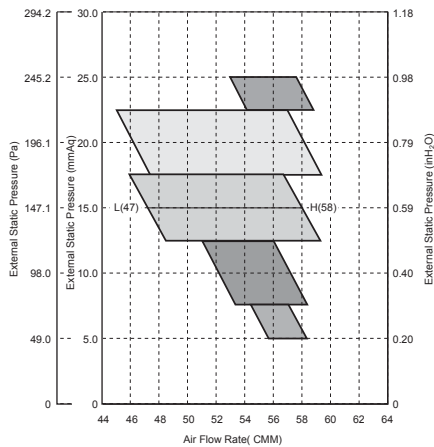
ESP (mmAq)	Option code
5	010054-13591C-208080-331110
10	010054-135AC4-208080-331110
15	010054-135E4E-208080-331110
20	010054-135F95-208080-331110

(3) AM140FNHDEH***



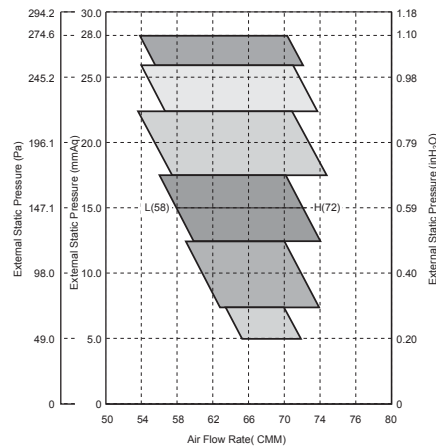
ESP (mmAq)	Option code
5	010054-13595E-208C8C-331110
10	010054-135E09-208C8C-331110
15	010054-135F71-208C8C-331110
20	010054-135FB7-208C8C-331110

4) AM220FNHDEH***



ESP (mmAq)	Option code
5	011054-195097-20DCDC-331110
10	011054-1950C7-20DCDC-331110
15	011054-1950E8-20DCDC-331110
20	011054-19544D-20DCDC-331110
25	011054-19549F-20DCDC-331110

(5) AM280FNHDEH***



ESP (mmAq)	Option code
5	011054-195407-231C1C-331110
10	011054-195429-231C1C-331110
15	011054-19545B-231C1C-331110
20	011054-19549E-231C1C-331110
25	011054-1955D1-231C1C-331110
28	011054-1955F3-231C1C-331110



Note

◆ ESP = External Static Pressure

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



6 Console

(AM***FNUDEH***)

6-1. Specifications.....	
6-2. Capacity tables.....	
6-3. Dimensional drawing.....	
6-4. Electrical wiring diagram.....	
6-5. Sound pressure level.....	
6-6. Temperature and air flow distribution.....	

6-1. Specifications

1) Technical specifications

Model				AM028FNJDEH***	AM036FNJDEH***	AM056FNJDEH***
Power Supply			Ø, #, V, Hz	1, 2, 220~240, 50	1, 2, 220~240, 50	1, 2, 220~240, 50
Mode*1)			-	HP/HR	HP/HR	HP/HR
Performance	Capacity (Nominal)	Cooling*2)	kW	2.8	3.6	5.6
			Btu/h	9,600	12,300	19,100
		Heating*3)	kW	3.2	4.0	6.3
			Btu/h	10,900	13,600	21,500
Power	Power Input (Nominal)	Cooling*2)	W	30	35	62
		Heating*3)		30	35	62
	Current Input (Nominal)	Cooling*2)	A	0.25	0.29	0.49
		Heating*3)		0.25	0.29	0.49
Fan	Motor	Type	-	Turbo Fan	Turbo Fan	Turbo Fan
		Output	W	37	37	37
		Number of unit	EA	1	1	1
	Air Flow Rate	H/M/L (UL)	CMM	7.00/6.00/5.00	8.50/7.50/6.50	13.00/11.50/10.00
			l/s	116.67/100.00/83.33	141.67/125.00/108.33	216.67/191.67/166.67
	External Pressure	Min / Std / Max	mmAq	-	-	-
			Pa	-	-	-
			WG	-	-	-
Option Code			-	019044-1950B7-201C1C-330010	019044-1950D7-202424-330010	019044-19541B-203838-330010
Piping Connections	Liquid Pipe		Ø, mm	6.35	6.35	6.35
			Ø, inch	1/4	1/4	1/4
	Gas Pipe		Ø, mm	12.70	12.70	12.70
			Ø, inch	1/2	1/2	1/2
Drain Pipe			Ø, mm	ID 18 HOSE	ID 18 HOSE	ID 18 HOSE
Field Wiring	Power Source Wire	Below 20m / over 20m	mm ²	1.5 / 2.5	1.5 / 2.5	1.5 / 2.5
	Transmission Cable		mm ²	0.75~1.5	0.75~1.5	0.75~1.5
Refrigerant	Type		-	R410A	R410A	R410A
	Control Method		-	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound	Sound Pressure	High / Mid / Low*4)	dBA	38 / 36 / 34	39 / 37 / 34	43 / 40 / 37
Dimensions	Net Weight		kg	16.00	16.00	16.00
	Shipping Weight		kg	21.00	21.00	21.00
	Net Dimensions (W×H×D)		mm	720 x 620 x 199	720 x 620 x 199	720 x 620 x 199
	Shipping Dimensions (W×H×D)		mm	810 x 710 x 295	810 x 710 x 295	810 x 710 x 295
Panel Size	Panel model		-	-	-	-
	Panel Net Weight		kg	-	-	-
	Shipping Weight		kg	-	-	-
	Net Dimensions (W×H×D)		mm	-	-	-
	Shipping Dimensions (W×H×D)		mm	-	-	-
Additional Accessories	Drain pump	Drain pump	- / Model	-	-	-
		Max. lifting Height / Displacement	mm/liter/h	-	-	-
	Air Filter		-	Long life filter	Long life filter	Long life filter

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

*1) Mode

- HP : Heat Pump, HR : Heat Recovery

*2) Nominal cooling capacities are based on;

- Indoor temperature : 27°C DB, 19°C WB

- Outdoor temperature : 35°C DB, 24°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

*3) Nominal heating capacities are based on;

- Indoor temperature : 20°C DB, 15°C WB

- Outdoor temperature : 7°C DB, 6°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

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

*5) These products contain R410A which is fluorinated greenhouse gas.

6-2. Capacity tables

1) Cooling

TC : Total Capacity(kW), SHC : Sensible Heat Capacity(kW)

Model	Outdoor temperature (°C, DB)	Indoor temperature (°C, WB)													
		20 (°C, DB)		23 (°C, DB)		26 (°C, DB)		27 (°C, DB)		28 (°C, DB)		30 (°C, DB)		32 (°C, DB)	
		14 (°C, WB)		16 (°C, WB)		18 (°C, WB)		19 (°C, WB)		20 (°C, WB)		22 (°C, WB)		24 (°C, WB)	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
028	10	1.9	1.7	2.3	2.0	2.6	2.0	2.8	2.2	2.9	2.2	3.1	2.2	3.4	2.1
	12	1.9	1.7	2.3	2.0	2.6	2.0	2.8	2.2	2.9	2.2	3.1	2.2	3.3	2.0
	14	1.9	1.7	2.3	2.0	2.6	2.0	2.8	2.2	2.9	2.2	3.1	2.2	3.3	2.0
	16	1.9	1.7	2.3	2.0	2.6	2.0	2.8	2.2	2.9	2.2	3.1	2.2	3.3	2.0
	18	1.9	1.7	2.3	2.0	2.6	2.0	2.8	2.2	2.9	2.2	3.1	2.2	3.3	2.0
	20	1.9	1.7	2.3	2.0	2.6	2.0	2.8	2.2	2.9	2.2	3.1	2.2	3.3	2.0
	21	1.9	1.7	2.3	2.0	2.6	2.0	2.8	2.2	2.9	2.2	3.1	2.2	3.3	2.0
	23	1.9	1.7	2.3	2.0	2.6	2.0	2.8	2.2	2.9	2.2	3.1	2.2	3.3	2.0
	25	1.9	1.7	2.3	2.0	2.6	2.0	2.8	2.2	2.9	2.2	3.1	2.2	3.3	2.0
	27	1.9	1.7	2.3	2.0	2.6	2.0	2.8	2.2	2.9	2.2	3.1	2.2	3.3	2.0
	29	1.9	1.7	2.3	2.0	2.6	2.0	2.8	2.2	2.9	2.2	3.1	2.2	3.3	2.0
	31	1.9	1.7	2.3	2.0	2.6	2.0	2.8	2.2	2.9	2.2	3.1	2.2	3.3	2.0
	33	1.9	1.7	2.3	2.0	2.6	2.0	2.8	2.2	2.9	2.2	3.1	2.2	3.3	2.0
	35	1.9	1.7	2.3	2.0	2.6	2.0	2.8	2.2	2.9	2.2	3.1	2.2	3.3	2.0
37	1.9	1.7	2.3	2.0	2.6	2.0	2.8	2.2	2.9	2.2	3.1	2.2	3.3	2.0	
39	1.9	1.7	2.3	2.0	2.6	2.0	2.8	2.2	2.9	2.2	3.0	2.1	3.2	1.9	
036	10	2.5	2.0	2.9	2.3	3.4	2.4	3.6	2.5	3.7	2.5	4.0	2.5	4.3	2.4
	12	2.5	2.0	2.9	2.3	3.4	2.4	3.6	2.5	3.7	2.5	4.0	2.5	4.3	2.4
	14	2.5	2.0	2.9	2.3	3.4	2.4	3.6	2.5	3.7	2.5	4.0	2.5	4.3	2.4
	16	2.5	2.0	2.9	2.3	3.4	2.4	3.6	2.5	3.7	2.5	4.0	2.5	4.3	2.4
	18	2.5	2.0	2.9	2.3	3.4	2.4	3.6	2.5	3.7	2.5	4.0	2.5	4.3	2.4
	20	2.5	2.0	2.9	2.3	3.4	2.4	3.6	2.5	3.7	2.5	4.0	2.5	4.2	2.3
	21	2.5	2.0	2.9	2.3	3.4	2.4	3.6	2.5	3.7	2.5	4.0	2.5	4.2	2.3
	23	2.5	2.0	2.9	2.3	3.4	2.4	3.6	2.5	3.7	2.5	4.0	2.5	4.2	2.3
	25	2.5	2.0	2.9	2.3	3.4	2.4	3.6	2.5	3.7	2.5	4.0	2.5	4.2	2.3
	27	2.5	2.0	2.9	2.3	3.4	2.4	3.6	2.5	3.7	2.5	4.0	2.5	4.2	2.3
	29	2.5	2.0	2.9	2.3	3.4	2.4	3.6	2.5	3.7	2.5	4.0	2.5	4.2	2.3
	31	2.5	2.0	2.9	2.3	3.4	2.4	3.6	2.5	3.7	2.5	4.0	2.5	4.2	2.3
	33	2.5	2.0	2.9	2.3	3.4	2.4	3.6	2.5	3.7	2.5	4.0	2.5	4.2	2.3
	35	2.5	2.0	2.9	2.3	3.4	2.4	3.6	2.5	3.7	2.5	4.0	2.5	4.2	2.3
37	2.5	2.0	2.9	2.3	3.4	2.4	3.6	2.5	3.7	2.5	3.9	2.4	4.2	2.3	
39	2.5	2.0	2.9	2.3	3.4	2.4	3.6	2.5	3.7	2.5	3.9	2.4	4.1	2.2	
056	10	3.1	3.0	4.5	3.5	5.3	3.6	5.6	3.8	5.8	3.8	6.2	3.8	6.7	3.6
	12	3.1	3.0	4.5	3.5	5.3	3.6	5.6	3.8	5.8	3.8	6.2	3.8	6.7	3.6
	14	3.1	3.0	4.5	3.5	5.3	3.6	5.6	3.8	5.8	3.8	6.2	3.8	6.7	3.6
	16	3.1	3.0	4.5	3.5	5.3	3.6	5.6	3.8	5.8	3.8	6.2	3.8	6.7	3.6
	18	3.1	3.0	4.5	3.5	5.3	3.6	5.6	3.8	5.8	3.8	6.2	3.8	6.7	3.6
	20	3.1	3.0	4.5	3.5	5.3	3.6	5.6	3.8	5.8	3.8	6.2	3.8	6.5	3.5
	21	3.1	3.0	4.5	3.5	5.3	3.6	5.6	3.8	5.8	3.8	6.2	3.8	6.5	3.5
	23	3.1	3.0	4.5	3.5	5.3	3.6	5.6	3.8	5.8	3.8	6.2	3.8	6.5	3.5
	25	3.1	3.0	4.5	3.5	5.3	3.6	5.6	3.8	5.8	3.8	6.2	3.8	6.5	3.5
	27	3.1	3.0	4.5	3.5	5.3	3.6	5.6	3.8	5.8	3.8	6.2	3.8	6.5	3.5
	29	3.1	3.0	4.5	3.5	5.3	3.6	5.6	3.8	5.8	3.8	6.2	3.8	6.5	3.5
	31	3.1	3.0	4.5	3.5	5.3	3.6	5.6	3.8	5.8	3.8	6.2	3.8	6.5	3.5
	33	3.1	3.0	4.5	3.5	5.3	3.6	5.6	3.8	5.8	3.8	6.2	3.8	6.5	3.5
	35	3.1	3.0	4.5	3.5	5.3	3.6	5.6	3.8	5.8	3.8	6.2	3.8	6.5	3.5
	37	3.1	3.0	4.5	3.5	5.3	3.6	5.6	3.8	5.8	3.8	6.1	3.6	6.5	3.5
	39	3.1	3.0	4.5	3.5	5.3	3.6	5.6	3.8	5.8	3.8	6.1	3.6	6.4	3.3

6-2. Capacity tables

2) Heating

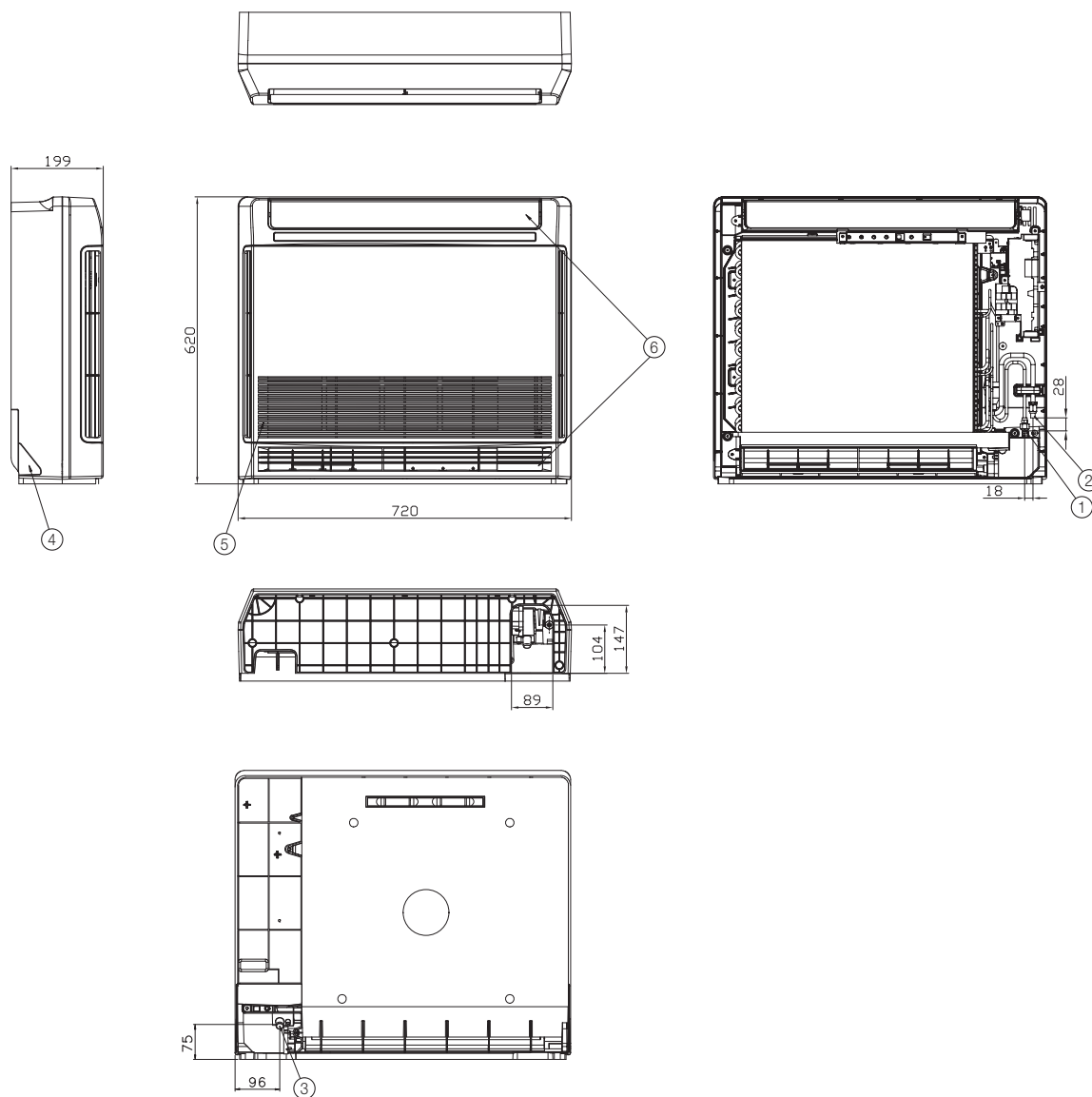
TC : Total Capacity(kW)

Model	Outdoor temperature (°C)		Indoor temperature (°C, DB)				
			16.0	18.0	20.0	22.0	24.0
			TC	TC	TC	TC	TC
	DB	WB	kW	kW	kW	kW	kW
028	-20	-21	1.9	1.9	1.9	1.9	1.9
	-17	-18	2.0	2.0	2.0	2.0	1.9
	-15	-16	2.1	2.1	2.0	2.0	1.9
	-12	-13	2.2	2.2	2.2	2.1	2.1
	-10	-11	2.3	2.3	2.3	2.3	2.2
	-7	-8	2.5	2.4	2.4	2.4	2.3
	-5	-6	2.6	2.6	2.5	2.5	2.4
	-3	-4	2.8	2.7	2.7	2.6	2.5
	0	-1	2.9	2.8	2.8	2.7	2.6
	3	2.2	3.0	3.0	2.9	2.8	2.7
	5	4.1	3.2	3.1	3.1	2.9	2.7
	7	6	3.3	3.2	3.2	3.0	2.7
	9	7.9	3.4	3.3	3.2	3.0	2.7
	11	9.8	3.5	3.3	3.2	3.0	2.7
	13	12	3.6	3.4	3.2	3.0	2.7
	15	14	3.7	3.4	3.2	3.0	2.7
036	-20	-21	2.4	2.4	2.3	2.3	2.3
	-17	-18	2.6	2.5	2.4	2.4	2.3
	-15	-16	2.7	2.6	2.5	2.5	2.4
	-12	-13	2.8	2.7	2.7	2.6	2.6
	-10	-11	2.9	2.9	2.9	2.8	2.8
	-7	-8	3.1	3.1	3.0	3.0	2.9
	-5	-6	3.3	3.2	3.2	3.1	3.0
	-3	-4	3.4	3.4	3.3	3.2	3.1
	0	-1	3.6	3.6	3.5	3.4	3.2
	3	2.2	3.8	3.7	3.7	3.5	3.4
	5	4.1	3.9	3.9	3.8	3.6	3.4
	7	6	4.1	4.1	4.0	3.7	3.4
	9	7.9	4.2	4.1	4.0	3.7	3.4
	11	9.8	4.4	4.2	4.0	3.7	3.4
	13	12	4.5	4.2	4.0	3.7	3.4
	15	14	4.6	4.3	4.0	3.7	3.4
056	-20	-21	3.8	3.8	3.6	3.6	3.6
	-17	-18	4.1	3.9	3.8	3.8	3.6
	-15	-16	4.3	4.1	3.9	3.9	3.8
	-12	-13	4.4	4.3	4.3	4.1	4.1
	-10	-11	4.6	4.6	4.6	4.4	4.4
	-7	-8	4.9	4.9	4.7	4.7	4.6
	-5	-6	5.2	5.0	5.0	4.9	4.7
	-3	-4	5.4	5.4	5.2	5.0	4.9
	0	-1	5.7	5.7	5.5	5.4	5.0
	3	2.2	6.0	5.8	5.8	5.5	5.4
	5	4.1	6.1	6.1	6.0	5.7	5.4
	7	6	6.5	6.5	6.3	5.8	5.4
	9	7.9	6.6	6.5	6.3	5.8	5.4
	11	9.8	6.9	6.6	6.3	5.8	5.4
	13	12	7.1	6.6	6.3	5.8	5.4
	15	14	7.2	6.8	6.3	5.8	5.4

6-3. Dimensional drawing

1) AM028/036FNJDEH***

Unit:mm

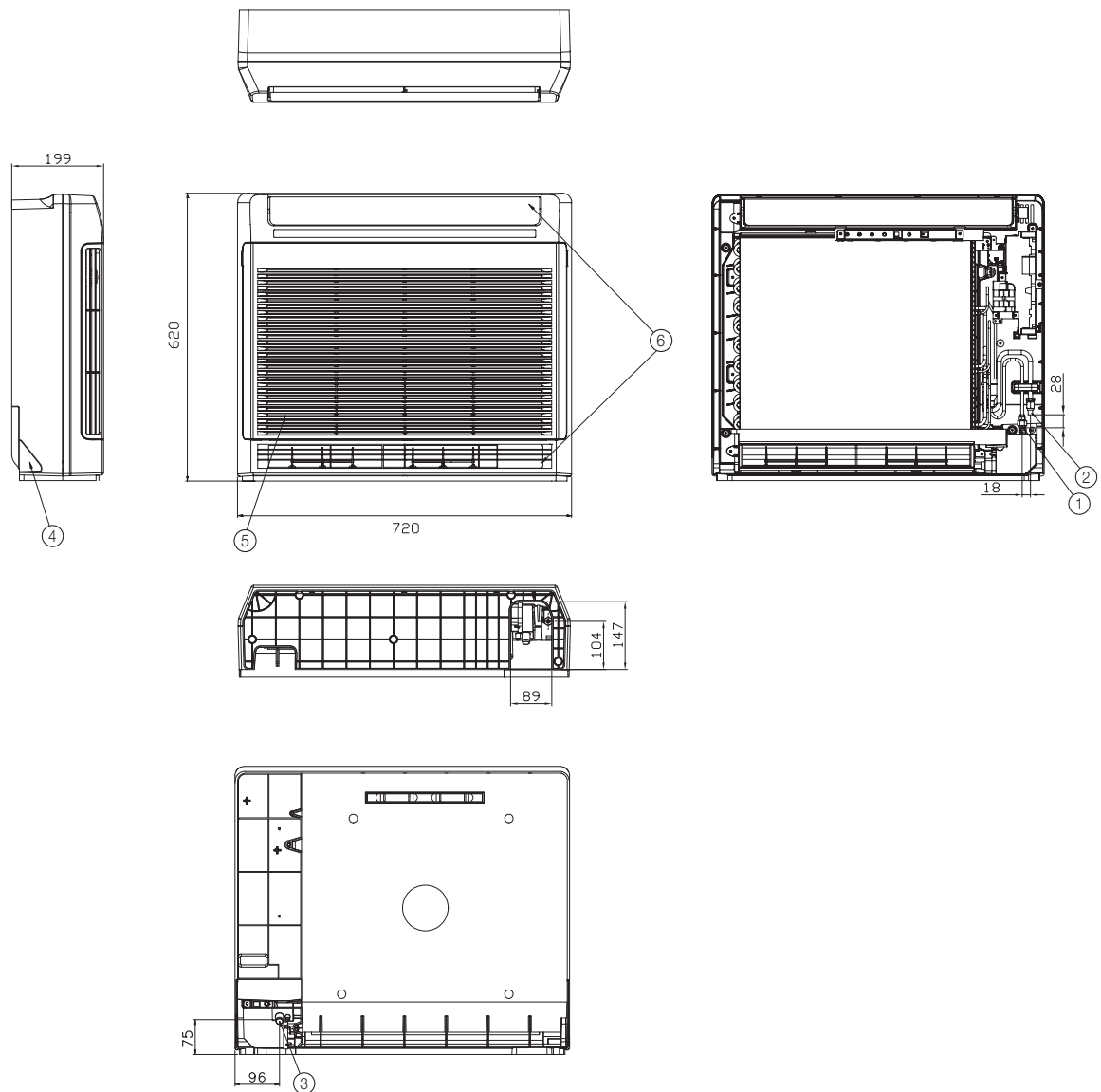


No.	Name	Description	
		2.8kW	3.6kW
①	Liquid pipe connection	Ø6.35 Flare	
②	Gas pipe connection	Ø12.70 Flare	
③	Drain pipe connection	ID18 Hose	
④	Conduit for power supply & communication wiring	-	
⑤	Air inlet grille	-	
⑥	Air outlet louver	-	

6-3. Dimensional drawing

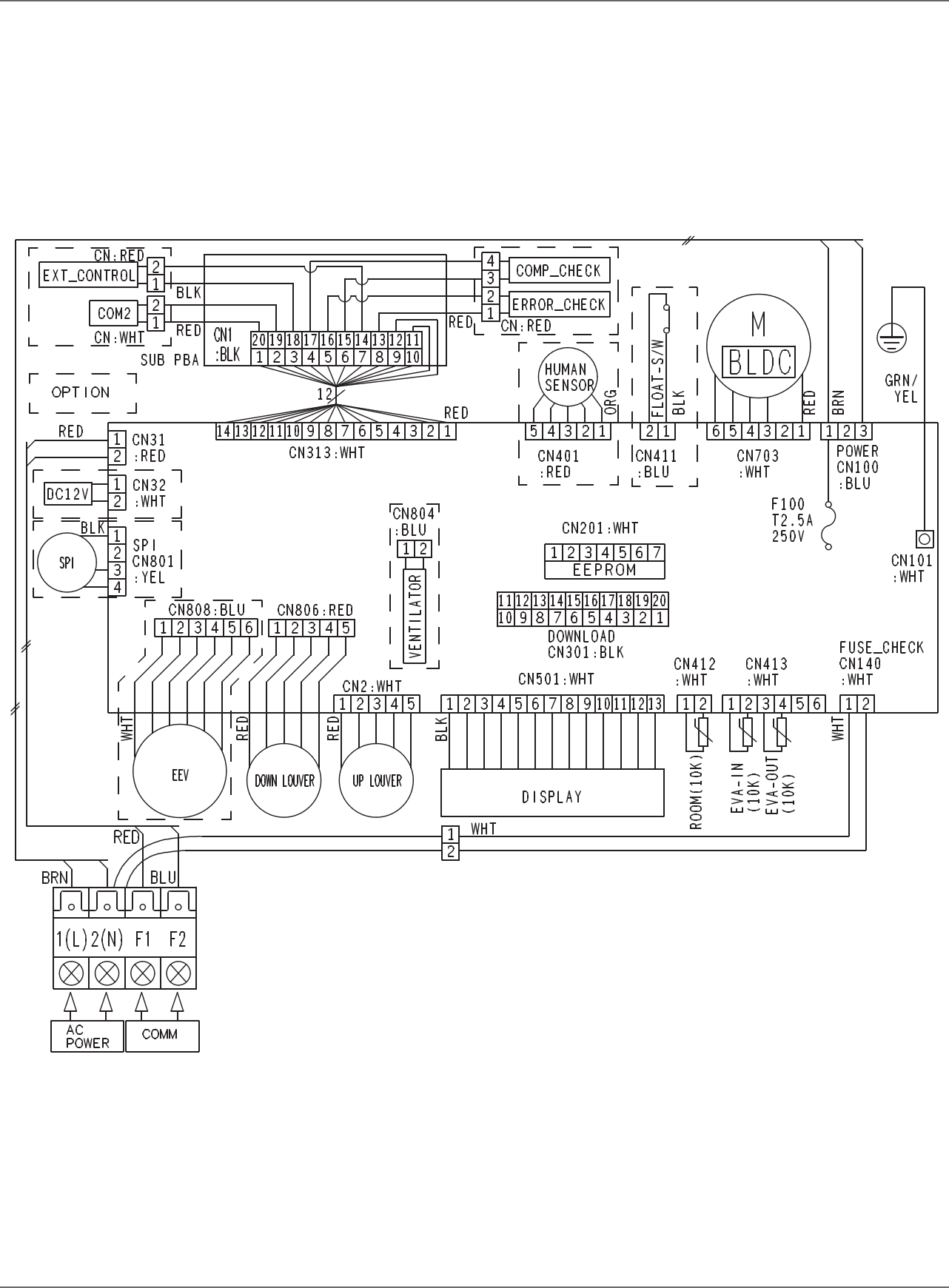
2) AM056FNJDEH***

Unit:mm



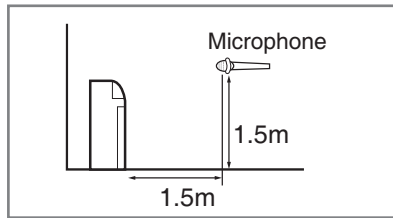
No.	Name	Description
		5.6kW
①	Liquid pipe connection	Ø6.35 Flare
②	Gas pipe connection	Ø12.70 Flare
③	Drain pipe connection	ID18 Hose
④	Conduit for power supply & communication wiring	-
⑤	Air inlet grille	-
⑥	Air outlet louver	-

6-4. Electrical wiring diagram



6-5. Sound pressure level

1) Operation sound level



Unit : dB(A)

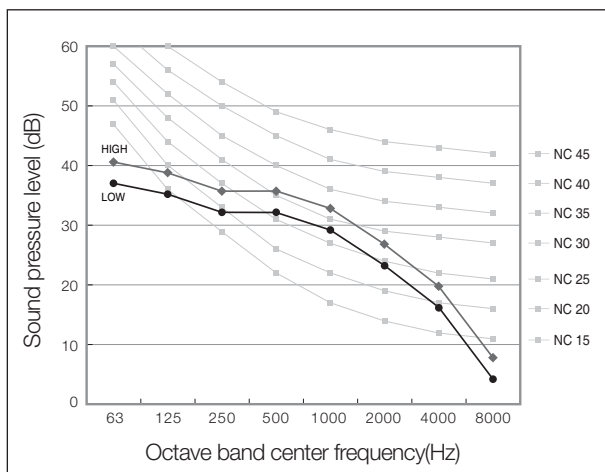
Model	High	Low
AM028FNJDEH***	38	34
AM036FNJDEH***	39	34
AM056FNJDEH***	43	37

☒ **Note**

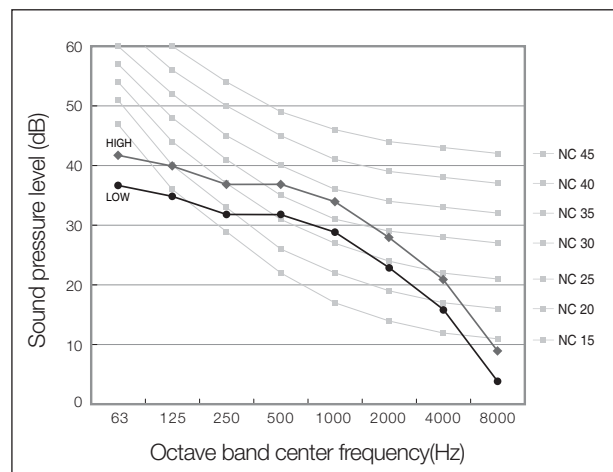
- ◆ These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- ◆ Operation sound level may differ depending on operation and ambient conditions.

2) NC curves

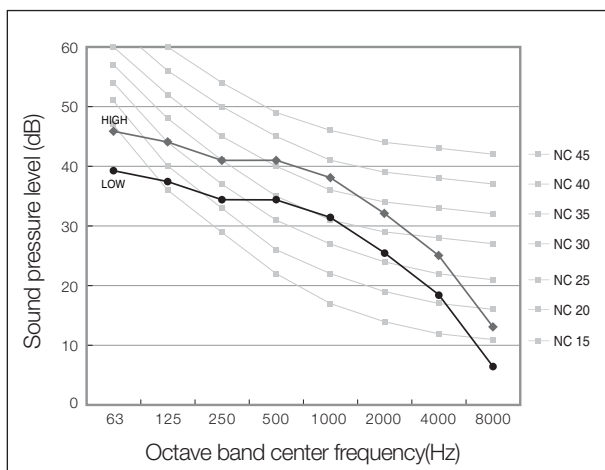
(1) AM028FNJDEH***



(2) AM036FNJDEH***



(3) AM056FNJDEH***

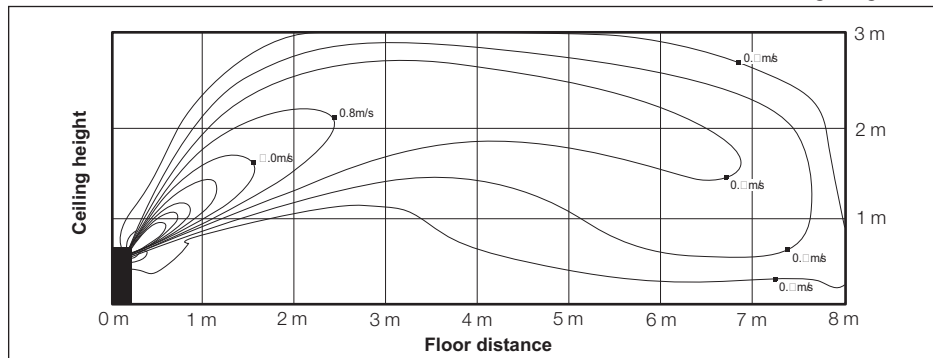


6-6. Temperature and air flow distribution

1) AM036FNJDEH***

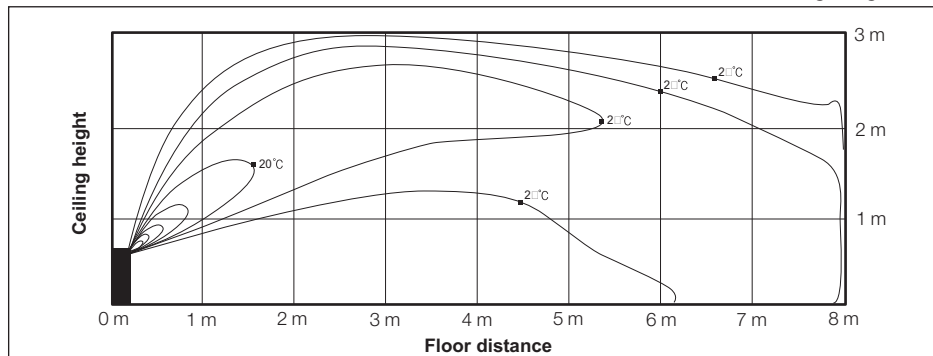
(1) Cooling air velocity distribution

◆ Discharge angle : 36°



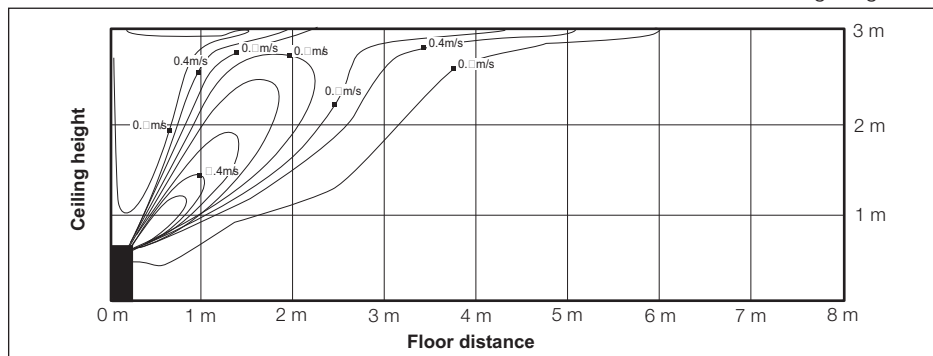
(2) Cooling temperature distribution

◆ Discharge angle : 36°



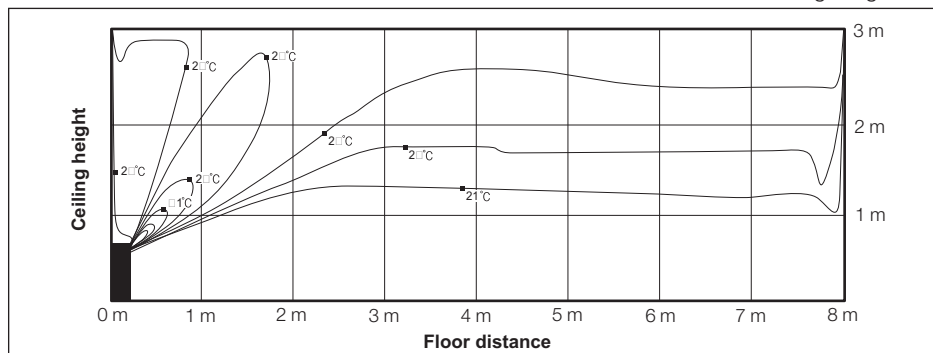
(3) Heating air velocity distribution

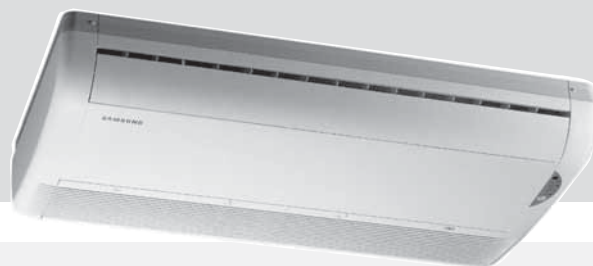
◆ Discharge angle : 54°



(4) Heating temperature distribution

◆ Discharge angle : 54°





7 Ceiling

(AM***FNCDEH***)

7-1. Specifications.....	
7-2. Capacity tables.....	
7-3. Dimensional drawing.....	
7-4. Electrical wiring diagram.....	
7-5. Sound pressure level.....	
7-6. Temperature and air flow distribution.....	

7-1. Specifications

1) Technical specifications

Model				AM056FNCDEH***	AM071FNCDEH***
Power Supply			Ø, #, V, Hz	1, 2, 220~240, 50	1, 2, 220~240, 50
Mode *1)			-	HP/HR	HP/HR
Performance	Capacity (Nominal)	Cooling *2)	kW	5.6	7.1
			Btu/h	19,100	24,200
		Heating *3)	kW	6.3	8.0
			Btu/h	21,500	27,300
Power	Power Input (Nominal)	Cooling *2)	W	72	80
		Heating *3)		72	77
	Current Input (Nominal)	Cooling *2)	A	0.33	0.35
		Heating *3)		0.28	0.29
Fan	Motor	Type	-	Sirocco Fan	Sirocco Fan
		Output	W	60	120
		Number of unit	EA	1	1
	Air Flow Rate	H/M/L (UL)	CMM	14.00/13.00/12.00	18.00/16.50/15.00
			l/s	233.33/216.67/200.00	300.00/275.00/250.00
	External Pressure	Min / Std / Max	mmAq	-	-
			Pa	-	-
			WG	-	-
Option Code			-	013054-105000-203838-330010	013054-105000-204747-330010
Piping Connections	Liquid Pipe		Ø, mm	6.35	9.52
			Ø, inch	1/4	3/8
	Gas Pipe		Ø, mm	12.70	15.88
			Ø, inch	1/2	5/8
Drain Pipe			Ø, mm	ID 18 HOSE	ID 18 HOSE
Field Wiring	Power Source Wire	Below 20m / over 20m	mm ²	1.5 / 2.5	1.5 / 2.5
	Transmission Cable		mm ²	0.75~1.5	0.75~1.5
Refrigerant	Type		-	R410A	R410A
	Control Method		-	EEV NOT INCLUDED	EEV NOT INCLUDED
Sound	Sound Pressure	High / Mid / Low *4)	dBA	40 / 37 / 34	44 / 42 / 40
Dimensions	Net Weight		kg	21.00	21.00
	Shipping Weight		kg	25.50	25.50
	Net Dimensions (W×H×D)		mm	1000 x 650 x 200	1000 x 650 x 200
	Shipping Dimensions (W×H×D)		mm	1080 x 730 x 300	1080 x 730 x 300
Panel Size	Panel model		-	-	-
	Panel Net Weight		kg	-	-
	Shipping Weight		kg	-	-
	Net Dimensions (W×H×D)		mm	-	-
	Shipping Dimensions (W×H×D)		mm	-	-
Additional Accessories	Drain pump	Drain pump	- / Model	-	-
		Max. lifting Height / Displacement	mm/liter/h	-	-
	Air Filter		-	Long life filter	Long life filter

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

*1) Mode

- HP : Heat Pump, HR : Heat Recovery

*2) Nominal cooling capacities are based on;

- Indoor temperature : 27°C DB, 19°C WB

- Outdoor temperature : 35°C DB, 24°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

*3) Nominal heating capacities are based on;

- Indoor temperature : 20°C DB, 15°C WB

- Outdoor temperature : 7°C DB, 6°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

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

*5) These products contain R410A which is fluorinated greenhouse gas.

7-2. Capacity tables

1) Cooling

TC : Total Capacity(kW), SHC : Sensible Heat Capacity(kW)

Model	Outdoor temperature (°C, DB)	Indoor temperature (°C, WB)													
		20 (°C, DB)		23 (°C, DB)		26 (°C, DB)		27 (°C, DB)		28 (°C, DB)		30 (°C, DB)		32 (°C, DB)	
		14 (°C, WB)		16 (°C, WB)		18 (°C, WB)		19 (°C, WB)		20 (°C, WB)		22 (°C, WB)		24 (°C, WB)	
056	10	3.9	3.2	4.6	3.5	5.3	3.7	5.6	3.8	5.8	3.8	6.3	3.8	6.7	3.7
	12	3.9	3.2	4.6	3.5	5.3	3.7	5.6	3.8	5.8	3.8	6.3	3.8	6.7	3.7
	14	3.9	3.2	4.6	3.5	5.3	3.7	5.6	3.8	5.8	3.8	6.2	3.8	6.7	3.7
	16	3.9	3.2	4.6	3.5	5.3	3.7	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.6
	18	3.9	3.2	4.6	3.5	5.3	3.7	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.6
	20	3.9	3.2	4.6	3.5	5.3	3.7	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.6
	21	3.9	3.2	4.6	3.5	5.3	3.7	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.6
	23	3.9	3.2	4.6	3.5	5.3	3.7	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.6
	25	3.9	3.2	4.6	3.5	5.3	3.7	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.6
	27	3.9	3.2	4.6	3.5	5.3	3.7	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.6
	29	3.9	3.2	4.6	3.5	5.3	3.7	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.6
	31	3.9	3.2	4.6	3.5	5.3	3.7	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.6
	33	3.9	3.2	4.6	3.5	5.3	3.7	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.6
	35	3.9	3.2	4.6	3.5	5.3	3.7	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.6
	37	3.9	3.2	4.6	3.5	5.3	3.7	5.6	3.8	5.8	3.8	6.1	3.7	6.5	3.5
	39	3.9	3.2	4.6	3.5	5.3	3.7	5.6	3.8	5.8	3.8	6.1	3.7	6.4	3.4
071	10	4.9	4.0	5.8	4.4	6.7	4.8	7.1	4.9	7.4	4.9	8.0	4.9	8.5	4.7
	12	4.9	4.0	5.8	4.4	6.7	4.8	7.1	4.9	7.4	4.9	7.9	4.8	8.5	4.7
	14	4.9	4.0	5.8	4.4	6.7	4.8	7.1	4.9	7.4	4.9	7.9	4.8	8.5	4.7
	16	4.9	4.0	5.8	4.4	6.7	4.8	7.1	4.9	7.4	4.9	7.9	4.8	8.4	4.6
	18	4.9	4.0	5.8	4.4	6.7	4.8	7.1	4.9	7.4	4.9	7.9	4.8	8.4	4.6
	20	4.9	4.0	5.8	4.4	6.7	4.8	7.1	4.9	7.4	4.9	7.9	4.8	8.4	4.6
	21	4.9	4.0	5.8	4.4	6.7	4.8	7.1	4.9	7.4	4.9	7.9	4.8	8.4	4.6
	23	4.9	4.0	5.8	4.4	6.7	4.8	7.1	4.9	7.4	4.9	7.9	4.8	8.4	4.6
	25	4.9	4.0	5.8	4.4	6.7	4.8	7.1	4.9	7.4	4.9	7.9	4.8	8.4	4.6
	27	4.9	4.0	5.8	4.4	6.7	4.8	7.1	4.9	7.4	4.9	7.9	4.8	8.4	4.6
	29	4.9	4.0	5.8	4.4	6.7	4.8	7.1	4.9	7.4	4.9	7.9	4.8	8.4	4.6
	31	4.9	4.0	5.8	4.4	6.7	4.8	7.1	4.9	7.4	4.9	7.9	4.8	8.4	4.6
	33	4.9	4.0	5.8	4.4	6.7	4.8	7.1	4.9	7.4	4.9	7.9	4.8	8.4	4.6
	35	4.9	4.0	5.8	4.4	6.7	4.8	7.1	4.9	7.4	4.9	7.9	4.8	8.4	4.6
	37	4.9	4.0	5.8	4.4	6.7	4.8	7.1	4.9	7.3	4.8	7.8	4.7	8.2	4.5
	39	4.9	4.0	5.8	4.4	6.7	4.8	7.1	4.9	7.3	4.8	7.7	4.6	8.1	4.4

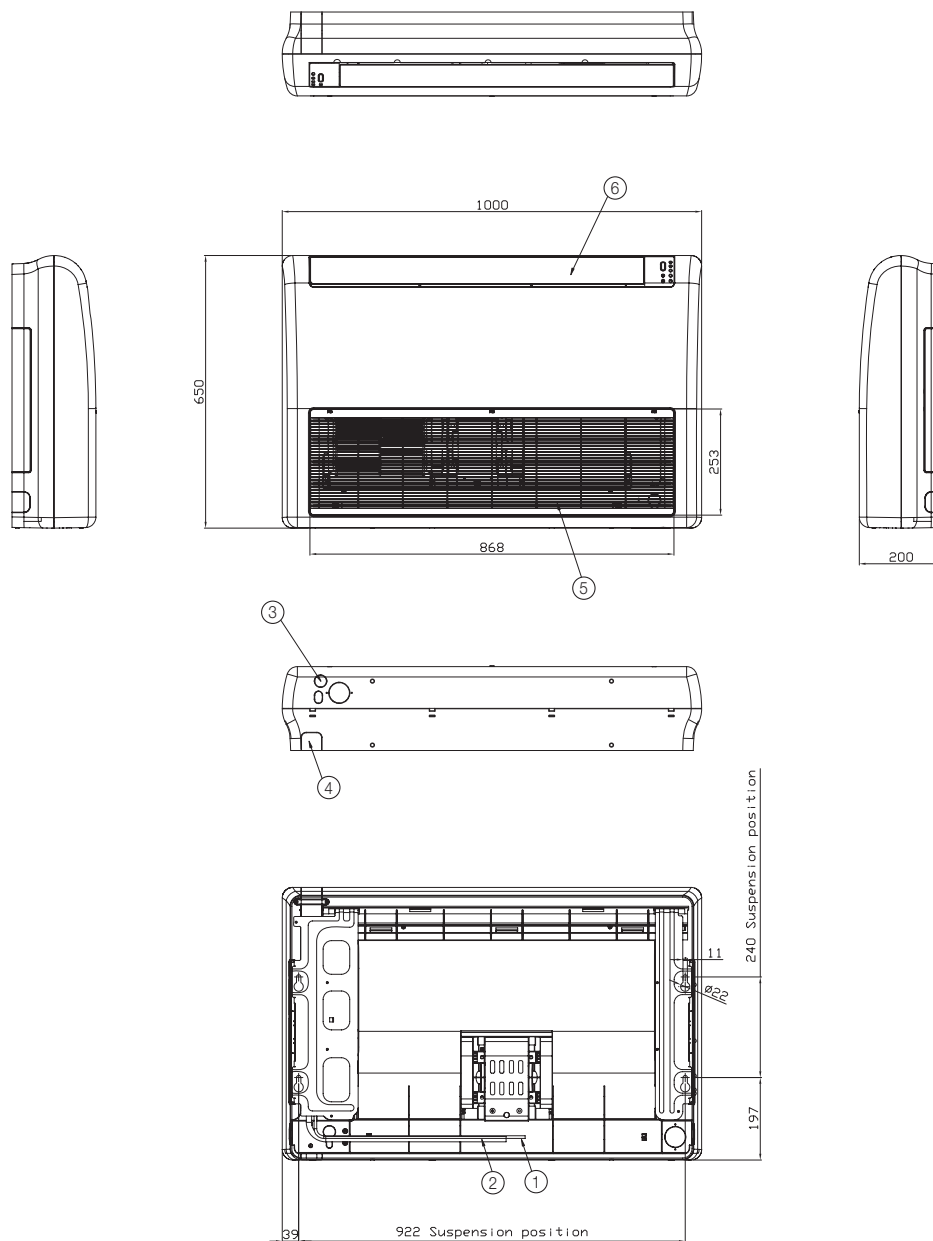
2) Heating

TC : Total Capacity(kW)

Model	Outdoor temperature (°C)		Indoor temperature (°C, DB)				
			16.0	18.0	20.0	22.0	24.0
	DB	WB	TC	TC	TC	TC	TC
056	-20	-21	3.9	3.8	3.8	3.7	3.7
	-17	-18	4.0	4.0	3.9	3.8	3.8
	-15	-16	4.2	4.1	4.0	3.9	3.8
	-12	-13	4.4	4.3	4.2	4.2	4.1
	-10	-11	4.6	4.6	4.5	4.4	4.4
	-7	-8	4.9	4.8	4.8	4.7	4.5
	-5	-6	5.2	5.1	5.0	4.9	4.7
	-3	-4	5.4	5.3	5.3	5.1	4.9
	0	-1	5.7	5.6	5.5	5.3	5.0
	3	2.2	5.9	5.9	5.8	5.6	5.3
	5	4.1	6.2	6.1	6.0	5.7	5.3
	7	6	6.5	6.4	6.3	5.8	5.3
	9	7.9	6.7	6.5	6.3	5.8	5.3
	11	9.8	6.9	6.6	6.3	5.8	5.3
	13	12	7.1	6.7	6.3	5.8	5.3
	15	14	7.3	6.8	6.3	5.8	5.3
071	-20	-21	4.9	4.9	4.8	4.7	4.7
	-17	-18	5.1	5.0	4.9	4.8	4.8
	-15	-16	5.3	5.2	5.1	4.9	4.8
	-12	-13	5.6	5.5	5.4	5.3	5.2
	-10	-11	5.9	5.8	5.7	5.6	5.6
	-7	-8	6.2	6.1	6.0	5.9	5.8
	-5	-6	6.5	6.5	6.4	6.2	6.0
	-3	-4	6.9	6.8	6.7	6.4	6.2
	0	-1	7.2	7.1	7.0	6.7	6.4
	3	2.2	7.6	7.5	7.3	7.1	6.8
	5	4.1	7.9	7.8	7.7	7.2	6.8
	7	6	8.2	8.1	8.0	7.4	6.8
	9	7.9	8.5	8.2	8.0	7.4	6.8
	11	9.8	8.7	8.4	8.0	7.4	6.8
	13	12	9.0	8.5	8.0	7.4	6.8
	15	14	9.2	8.6	8.0	7.4	6.8

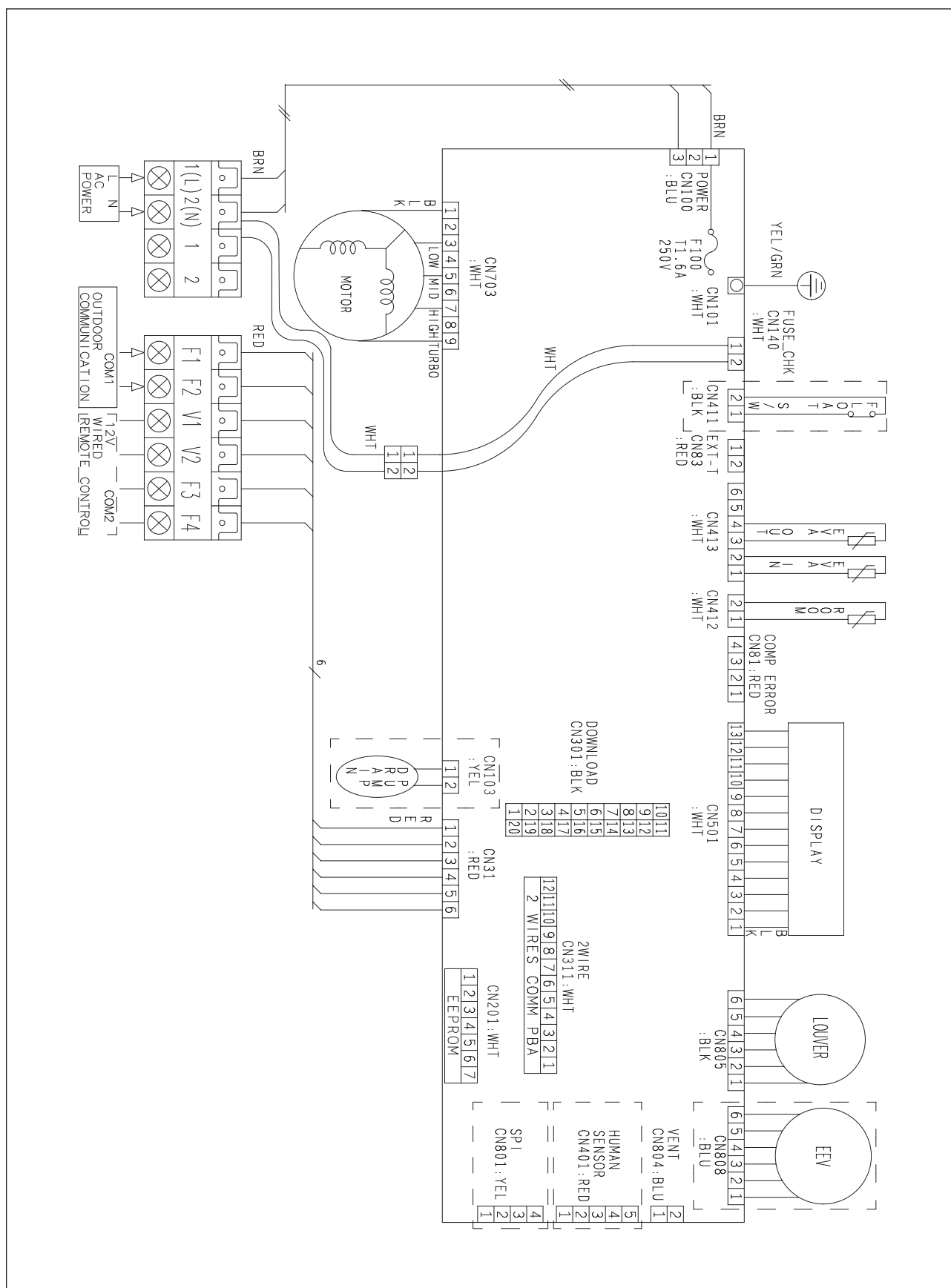
7-3. Dimensional drawing

Unit:mm



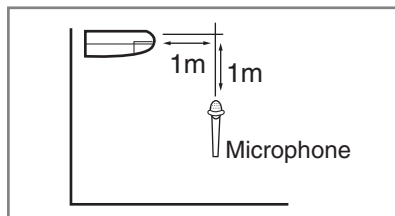
No.	Name	Description	
		5.6kW	7.1kW
①	Liquid pipe connection	Ø6.35 Flare	Ø9.52 Flare
②	Gas pipe connection	Ø12.70 Flare	Ø15.88 Flare
③	Drain pipe connection	ID18 Hose	
④	Conduit for power supply & communication wiring	-	
⑤	Air inlet grille	-	
⑥	Air outlet louver	-	

7-4. Electrical wiring diagram



7-5. Sound pressure level

1) Operation sound level



Unit : dB(A)

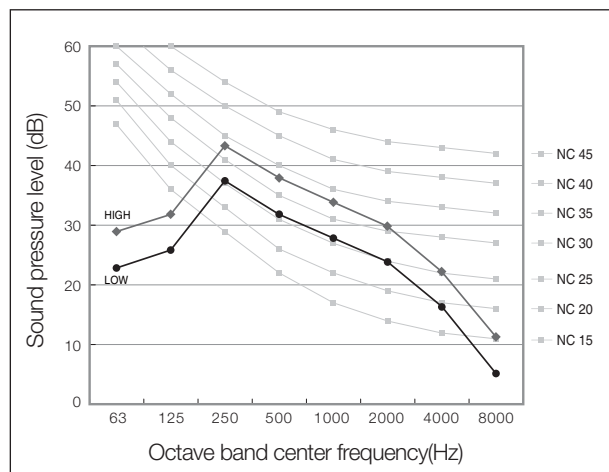
Model	High	Low
AM056FNCDEH***	40	34
AM071FNCDEH***	44	40

☒ Note

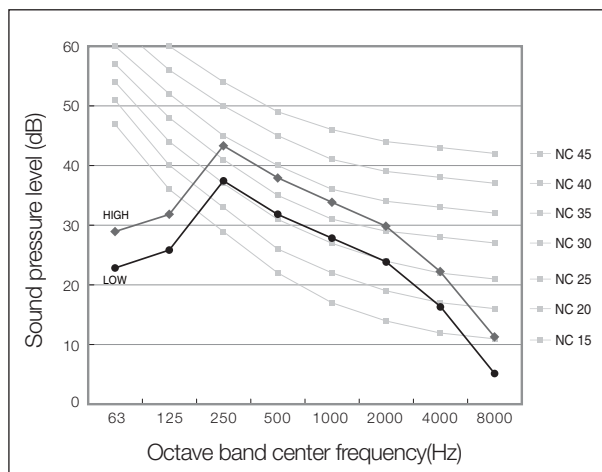
- ◆ These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- ◆ Operation sound level may differ depending on operation and ambient conditions.

2) NC curves

(1) AM056FNCDEH***



(2) AM071FNCDEH***

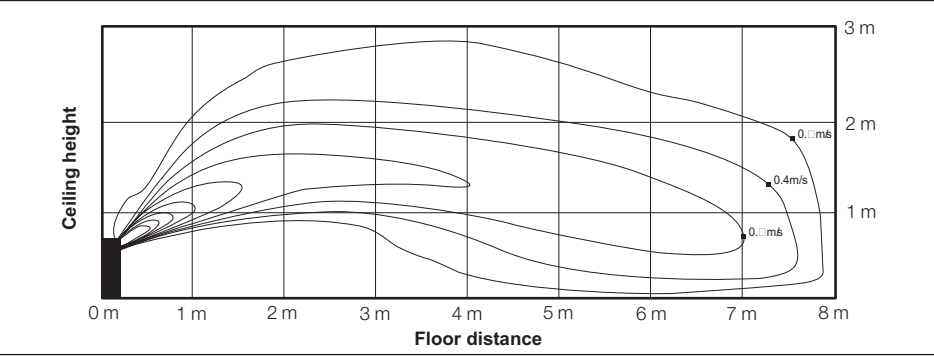


7-6. Temperature and air flow distribution

1) AM071FNCDEH*** (Floor installation)

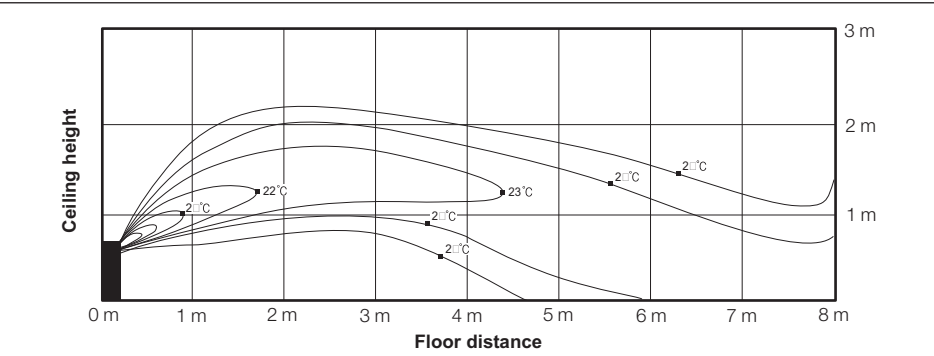
(1) Cooling air velocity distribution

◆ Discharge angle : 36°



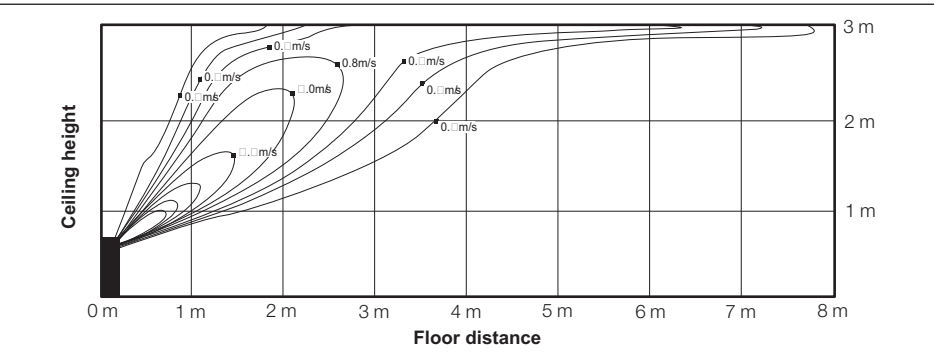
(2) Cooling temperature distribution

◆ Discharge angle : 36°



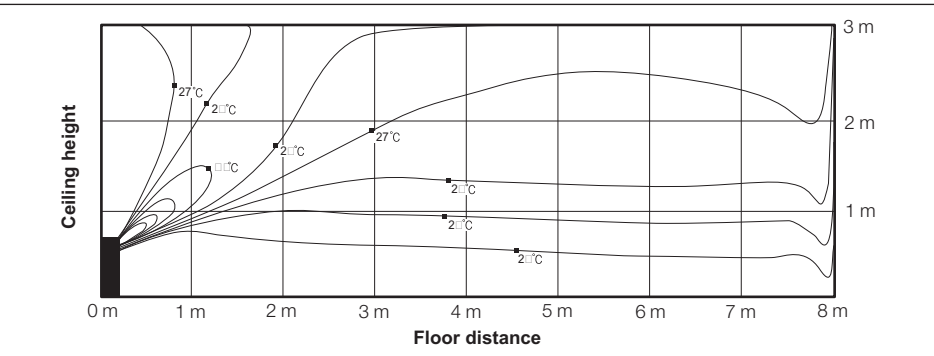
(3) Heating air velocity distribution

◆ Discharge angle : 54°



(4) Heating temperature distribution

◆ Discharge angle : 54°

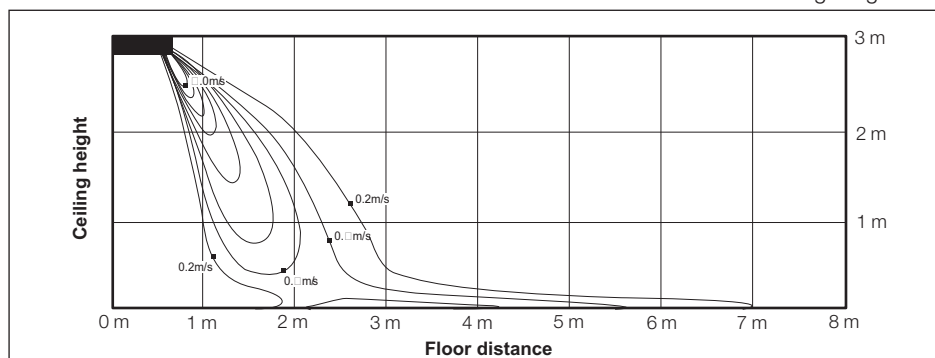


7-6. Temperature and air flow distribution

2) AM071FNCDEH*** (Ceiling installation)

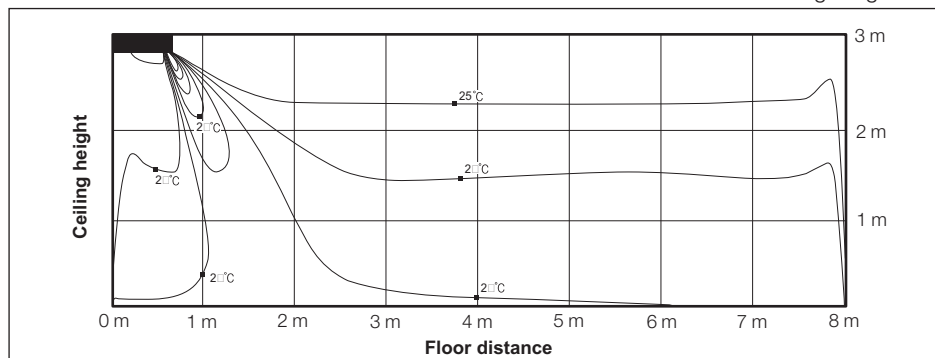
(1) Cooling air velocity distribution

◆ Discharge angle : 36°



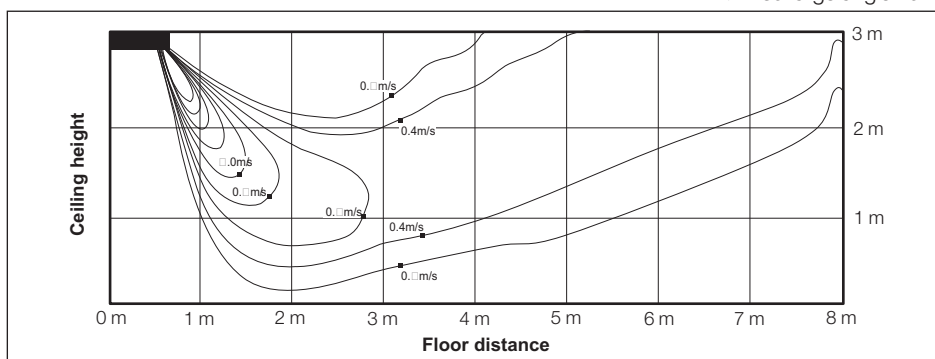
(2) Cooling temperature distribution

◆ Discharge angle : 36°



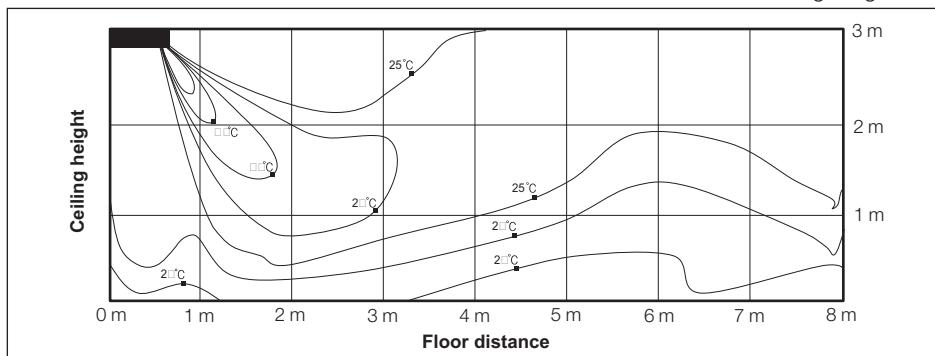
(3) Heating air velocity distribution

◆ Discharge angle : 54°



(4) Heating temperature distribution

◆ Discharge angle : 54°





8 Floor Standing

(AM***FNFDEH***)

8-1. Specifications.....	
8-2. Capacity tables.....	
8-3. Dimensional drawing.....	
8-4. Electrical wiring diagram.....	
8-5. Sound pressure level.....	
8-6. Temperature and air flow distribution.....	

8 Floor Standing

8-1. Specifications

1) Technical specifications

Model				AM036FNFDEH***	AM056FNFDEH***	AM071FNFDEH***
Power Supply			Ø, #, V, Hz	1, 2, 220~240, 50	1, 2, 220~240, 50	1, 2, 220~240, 50
Mode *1)			-	HP/HR	HP/HR	HP/HR
Performance	Capacity (Nominal)	Cooling *2)	kW	3.6	5.6	7.1
			Btu/h	12,300	19,100	24,200
		Heating *3)	kW	4.0	6.3	8.0
			Btu/h	13,600	21,500	27,300
Power	Power Input (Nominal)	Cooling *2)	W	50	110	110
		Heating *3)		50	110	110
	Current Input (Nominal)	Cooling *2)	A	0.24	0.53	0.53
		Heating *3)		0.24	0.53	0.53
Fan	Motor	Type	-	Sirocco Fan	Sirocco Fan	Sirocco Fan
		Output	W	-	-	-
		Number of unit	EA	-	-	-
	Air Flow Rate	H/M/L (UL)	CMM	10.00/8.50/6.00	15.50/14.00/11.00	15.50/14.00/11.00
			l/s	166.67/141.67/100.00	258.33/233.33/183.33	258.33/233.33/183.33
	External Pressure	Min / Std / Max	mmAq	-	-	-
			Pa	-	-	-
			WG	-	-	-
Option Code			-	01A054-105000-202424-330010	01A054-105000-203838-330010	01A054-105000-204747-330010
Piping Connections	Liquid Pipe		Ø, mm	6.35	9.52	9.52
			Ø, inch	1/4	3/8	3/8
	Gas Pipe		Ø, mm	12.70	15.88	15.88
			Ø, inch	1/2	5/8	5/8
	Drain Pipe		Ø, mm	ID 18 HOSE	ID 18 HOSE	ID 18 HOSE
Field Wiring	Power Source Wire	Below 20m / over 20m	mm ²	1.5 / 2.5	1.5 / 2.5	1.5 / 2.5
	Transmission Cable		mm ²	0.75~1.5	0.75~1.5	0.75~1.5
Refrigerant	Type		-	R410A	R410A	R410A
	Control Method		-	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound	Sound Pressure	High / Mid / Low *4)	dBA	37 / 32 / 27	40 / 36 / 32	40 / 36 / 32
Dimensions	Net Weight		kg	23.0	28.5	28.5
	Shipping Weight		kg	27.0	33.3	33.3
	Net Dimensions (W×H×D)		mm	945 x 600 x 220	1225 x 600 x 220	1225 x 600 x 220
	Shipping Dimensions (W×H×D)		mm	1035 x 690 x 310	1335 x 690 x 310	1335 x 690 x 310
Panel Size	Panel model		-	-	-	-
	Panel Net Weight		kg	-	-	-
	Shipping Weight		kg	-	-	-
	Net Dimensions (W×H×D)		mm	-	-	-
	Shipping Dimensions (W×H×D)		mm	-	-	-
Additional Accessories	Drain pump	Drain pump	- / Model	-	-	-
		Max. lifting Height / Displacement	mm/liter/h	-	-	-
	Air Filter		-	Long life filter	Long life filter	Long life filter

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

*1) Mode

- HP : Heat Pump, HR : Heat Recovery

*2) Nominal cooling capacities are based on;

- Indoor temperature : 27°C DB, 19°C WB

- Outdoor temperature : 35°C DB, 24°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

*3) Nominal heating capacities are based on;

- Indoor temperature : 20°C DB, 15°C WB

- Outdoor temperature : 7°C DB, 6°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

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

*5) These products contain R410A which is fluorinated greenhouse gas.

8-2. Capacity tables

1) Cooling

TC : Total Capacity(kW), SHC : Sensible Heat Capacity(kW)

Model	Outdoor temperature (°C, DB)	Indoor temperature (°C, WB)													
		20 (°C, DB)		23 (°C, DB)		26 (°C, DB)		27 (°C, DB)		28 (°C, DB)		30 (°C, DB)		32 (°C, DB)	
		14 (°C, WB)		16 (°C, WB)		18 (°C, WB)		19 (°C, WB)		20 (°C, WB)		22 (°C, WB)		24 (°C, WB)	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
036	10	2.8	2.3	3.3	2.7	3.8	2.9	4.0	2.9	4.2	2.9	4.5	3.0	4.8	3.0
	12	2.8	2.3	3.3	2.7	3.8	2.9	4.0	2.9	4.2	2.9	4.5	3.0	4.8	2.9
	14	2.8	2.3	3.3	2.7	3.8	2.9	4.0	2.9	4.2	2.9	4.5	3.0	4.8	2.9
	16	2.8	2.3	3.3	2.7	3.8	2.9	4.0	2.9	4.1	2.9	4.4	3.0	4.7	2.9
	18	2.8	2.3	3.3	2.7	3.8	2.9	4.0	2.9	4.1	2.9	4.4	3.0	4.7	2.9
	20	2.8	2.3	3.3	2.7	3.8	2.9	4.0	2.9	4.1	2.9	4.4	3.0	4.7	2.9
	21	2.8	2.3	3.3	2.7	3.8	2.9	4.0	2.9	4.1	2.9	4.4	3.0	4.7	2.9
	23	2.8	2.3	3.3	2.7	3.8	2.9	4.0	2.9	4.1	2.9	4.4	3.0	4.7	2.9
	25	2.8	2.3	3.3	2.7	3.8	2.9	4.0	2.9	4.1	2.9	4.4	3.0	4.7	2.9
	27	2.8	2.3	3.3	2.7	3.8	2.9	4.0	2.9	4.1	2.9	4.4	2.9	4.7	2.9
	29	2.8	2.3	3.3	2.7	3.8	2.9	4.0	2.9	4.1	2.9	4.4	2.9	4.7	2.9
	31	2.8	2.3	3.3	2.7	3.8	2.9	4.0	2.9	4.1	2.9	4.4	3.0	4.7	3.0
	33	2.8	2.3	3.3	2.7	3.8	2.9	4.0	2.9	4.1	2.9	4.4	3.1	4.7	3.0
	35	2.8	2.3	3.3	2.7	3.8	2.9	4.0	2.9	4.1	2.9	4.4	3.1	4.7	3.0
	37	2.8	2.3	3.3	2.7	3.8	2.9	4.0	2.9	4.1	3.0	4.4	3.0	4.6	3.0
	39	2.8	2.3	3.3	2.7	3.8	2.9	4.0	3.0	4.1	2.8	4.3	3.0	4.5	3.0
056	10	4.1	3.4	4.9	3.9	5.6	4.1	6.0	4.3	6.2	4.1	6.7	3.9	7.2	4.2
	12	4.1	3.4	4.9	3.9	5.6	4.1	6.0	4.3	6.2	4.1	6.7	3.9	7.2	4.3
	14	4.1	3.4	4.9	3.9	5.6	4.1	6.0	4.3	6.2	4.1	6.7	4.0	7.1	4.2
	16	4.1	3.4	4.9	3.9	5.6	4.1	6.0	4.3	6.2	4.1	6.7	4.0	7.1	4.3
	18	4.1	3.4	4.9	3.9	5.6	4.1	6.0	4.3	6.2	4.1	6.7	3.9	7.1	4.3
	20	4.1	3.4	4.9	3.9	5.6	4.1	6.0	4.3	6.2	4.1	6.6	3.9	7.1	4.3
	21	4.1	3.4	4.9	3.9	5.6	4.1	6.0	4.3	6.2	4.1	6.6	3.9	7.1	4.3
	23	4.1	3.4	4.9	3.9	5.6	4.1	6.0	4.3	6.2	4.1	6.6	4.0	7.1	4.4
	25	4.1	3.4	4.9	3.9	5.6	4.1	6.0	4.3	6.2	4.1	6.6	4.1	7.1	4.3
	27	4.1	3.4	4.9	3.9	5.6	4.1	6.0	4.3	6.2	4.1	6.6	4.0	7.1	4.3
	29	4.1	3.4	4.9	3.9	5.6	4.1	6.0	4.3	6.2	4.1	6.6	4.1	7.1	4.3
	31	4.1	3.4	4.9	3.9	5.6	4.1	6.0	4.3	6.2	4.1	6.6	4.0	7.1	4.4
	33	4.1	3.4	4.9	3.9	5.6	4.1	6.0	4.3	6.2	4.1	6.6	4.1	7.1	4.3
	35	4.1	3.4	4.9	3.9	5.6	4.1	6.0	4.3	6.2	4.2	6.6	4.2	7.1	4.4
	37	4.1	3.4	4.9	3.9	5.6	4.1	6.0	4.3	6.2	4.3	6.6	4.1	7.0	4.4
	39	4.1	3.4	4.9	3.9	5.6	4.1	6.0	4.3	6.2	4.2	6.5	4.0	6.8	4.3
071	10	5.0	4.0	5.9	4.5	6.8	4.6	7.2	5.0	7.5	4.4	8.1	4.6	8.6	5.1
	12	5.0	4.0	5.9	4.5	6.8	4.6	7.2	5.0	7.5	4.4	8.0	4.7	8.6	4.8
	14	5.0	4.0	5.9	4.5	6.8	4.6	7.2	5.0	7.5	4.4	8.0	4.7	8.6	5.0
	16	5.0	4.0	5.9	4.5	6.8	4.6	7.2	5.0	7.5	4.4	8.0	4.7	8.5	4.8
	18	5.0	4.0	5.9	4.5	6.8	4.6	7.2	5.0	7.5	4.5	8.0	4.7	8.5	4.7
	20	5.0	4.0	5.9	4.5	6.8	4.6	7.2	5.0	7.5	4.5	8.0	4.4	8.5	4.5
	21	5.0	4.0	5.9	4.5	6.8	4.6	7.2	5.0	7.5	4.5	8.0	4.4	8.5	4.5
	23	5.0	4.0	5.9	4.5	6.8	4.6	7.2	5.0	7.5	4.5	8.0	4.6	8.5	4.7
	25	5.0	4.0	5.9	4.5	6.8	4.6	7.2	5.0	7.5	4.5	8.0	4.6	8.5	4.6
	27	5.0	4.0	5.9	4.5	6.8	4.6	7.2	5.0	7.5	4.5	8.0	4.6	8.5	4.9
	29	5.0	4.0	5.9	4.5	6.8	4.6	7.2	5.0	7.5	4.5	8.0	4.5	8.5	4.6
	31	5.0	4.0	5.9	4.5	6.8	4.6	7.2	5.0	7.5	4.5	8.0	4.5	8.5	4.8
	33	5.0	4.0	5.9	4.5	6.8	4.6	7.2	5.0	7.5	4.5	8.0	4.6	8.5	4.6
	35	5.0	4.0	5.9	4.5	6.8	4.6	7.2	5.0	7.5	4.4	8.0	4.7	8.5	5.2
	37	5.0	4.0	5.9	4.5	6.8	4.6	7.2	5.0	7.4	4.5	7.9	4.6	8.4	4.9
	39	5.0	4.0	5.9	4.5	6.8	4.6	7.2	5.0	7.4	4.5	7.8	4.6	8.2	4.7

8 Floor Standing

8-2. Capacity tables

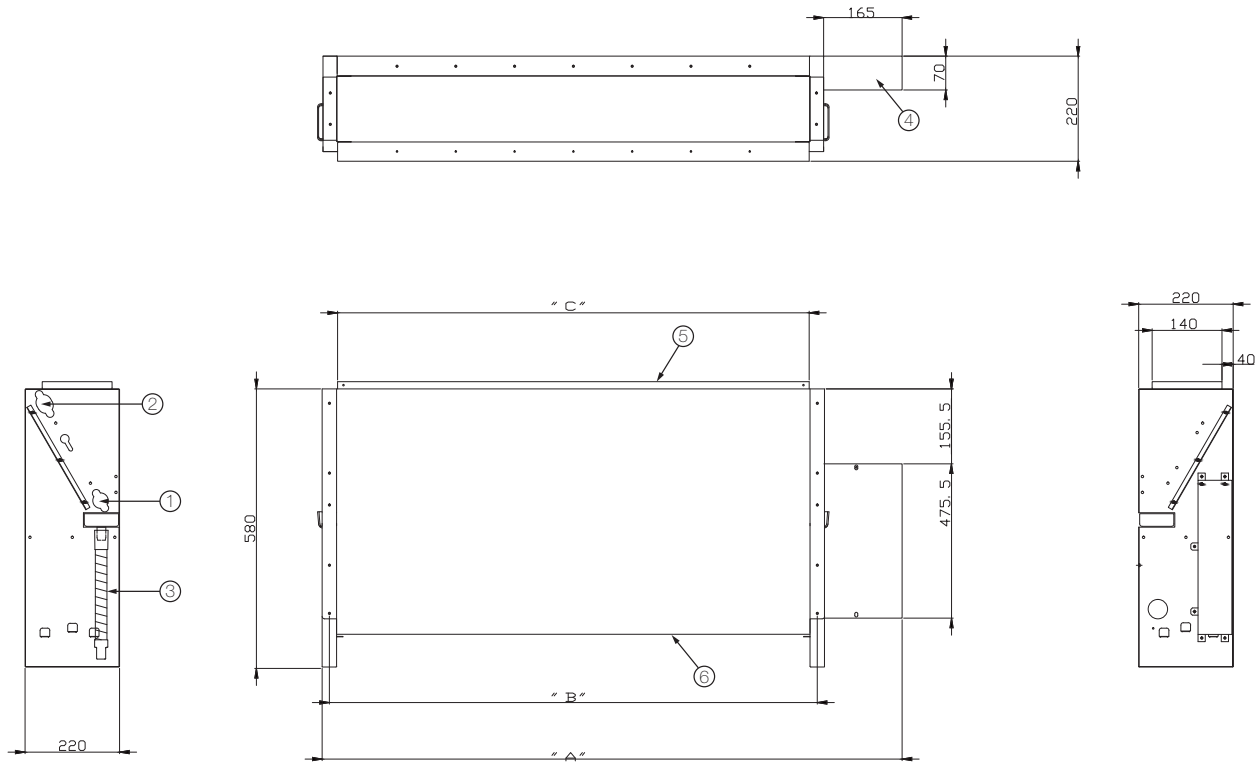
2) Heating

TC : Total Capacity(kW)

Model	Outdoor temperature (°C)		Indoor temperature (°C, DB)				
			16.0	18.0	20.0	22.0	24.0
			TC	TC	TC	TC	TC
	DB	WB	kW	kW	kW	kW	kW
036	-15	-16	3.2	3.2	3.1	3.0	2.9
	-12	-13	3.4	3.3	3.3	3.2	3.1
	-10	-11	3.6	3.5	3.5	3.4	3.4
	-7	-8	3.8	3.7	3.6	3.6	3.4
	-5	-6	3.9	3.9	3.8	3.8	3.4
	-3	-4	4.1	4.1	3.9	3.8	3.5
	0	-1	4.3	4.2	4.1	3.8	3.6
	3	2.2	4.5	4.4	4.1	4.0	3.8
	5	4.1	4.7	4.4	4.3	4.1	3.8
	7	6	4.7	4.6	4.5	4.2	3.8
	9	7.9	4.8	4.6	4.5	4.2	3.8
	11	9.8	4.9	4.7	4.5	4.2	3.8
	13	12	5.1	4.8	4.5	4.2	3.8
	15	14	5.2	4.9	4.5	4.2	3.8
056	-15	-16	4.9	4.8	4.6	4.5	4.4
	-12	-13	5.1	5.0	4.9	4.8	4.7
	-10	-11	5.4	5.3	5.2	5.1	5.1
	-7	-8	5.7	5.6	5.5	5.4	5.2
	-5	-6	6.0	5.9	5.7	5.7	5.2
	-3	-4	6.3	6.1	5.9	5.7	5.3
	0	-1	6.6	6.4	6.2	5.7	5.4
	3	2.2	6.9	6.7	6.2	6.0	5.7
	5	4.1	7.2	6.7	6.5	6.1	5.7
	7	6	7.2	6.9	6.8	6.3	5.7
	9	7.9	7.2	7.0	6.8	6.3	5.7
	11	9.8	7.4	7.1	6.8	6.3	5.7
	13	12	7.6	7.2	6.8	6.3	5.7
	15	14	7.9	7.3	6.8	6.3	5.7
071	-15	-16	5.8	5.7	5.5	5.4	5.2
	-12	-13	6.1	6.0	5.5	5.4	5.2
	-10	-11	6.4	6.3	6.2	6.1	6.1
	-7	-8	6.8	6.7	6.5	6.4	6.2
	-5	-6	7.1	7.0	6.8	6.8	6.2
	-3	-4	7.5	7.3	7.1	6.8	6.3
	0	-1	7.8	7.6	7.4	6.8	6.5
	3	2.2	8.2	7.9	7.4	7.1	6.8
	5	4.1	8.5	7.9	7.8	7.3	6.8
	7	6	8.5	8.2	8.1	7.5	6.8
	9	7.9	8.6	8.3	8.1	7.5	6.8
	11	9.8	8.8	8.5	8.1	7.5	6.8
	13	12	9.1	8.6	8.1	7.5	6.8
	15	14	9.4	8.7	8.1	7.5	6.8

8-3. Dimensional drawing

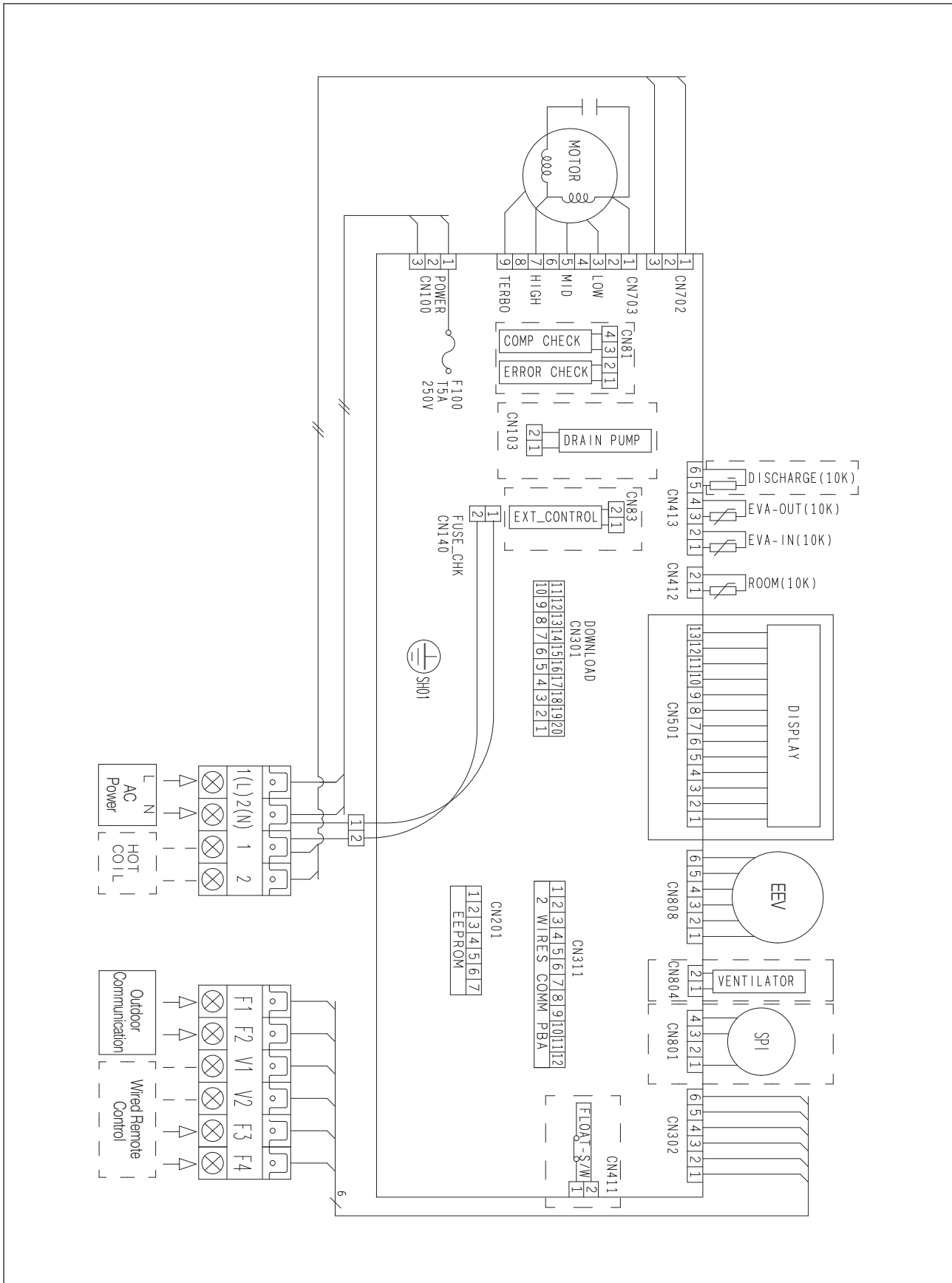
Unit:mm



Model	A	B	C
AM036FNFDEH***	945	730	700
AM056/071FNFDEH***	1,225	1,010	980

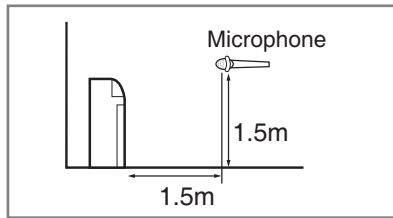
No.	Name	Description		
		3.6kW	5.6kW	7.1kW
①	Liquid pipe connection	Ø6.35 Flare	Ø6.35 Flare	Ø9.52 Flare
②	Gas pipe connection	Ø12.70 Flare	Ø12.70 Flare	Ø15.88 Flare
③	Drain pipe connection	ID18 Hose		
④	Power wiring	-		
⑤	Air inlet grille	-		
⑥	Air outlet louver	-		

8-4. Electrical wiring diagram



8-5. Sound pressure level

1) Operation sound level



Unit : dB(A)

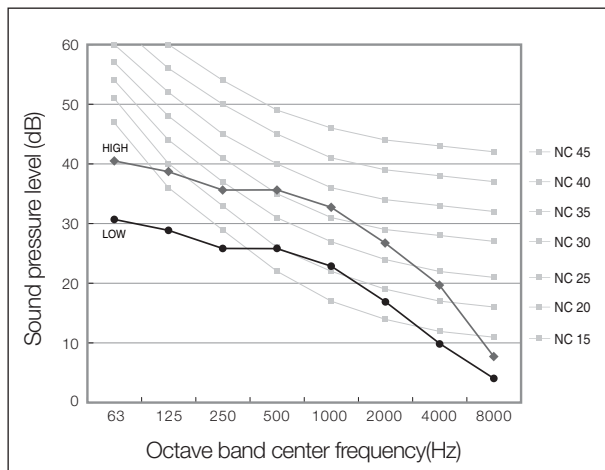
Model	High	Low
AM036FNFDEH***	37	27
AM056FNFDEH***	40	32
AM071FNFDEH***	40	32

☒ Note

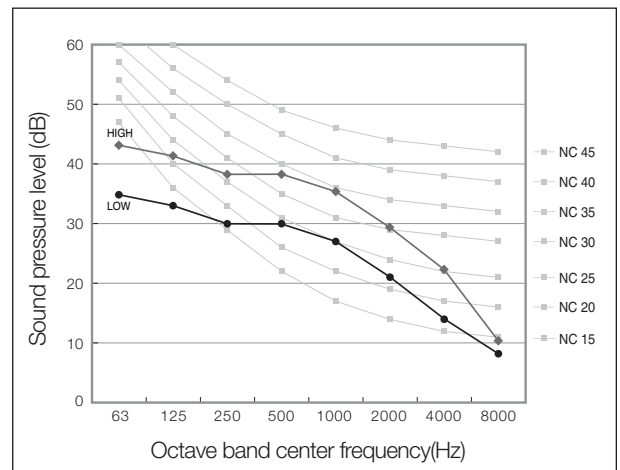
- ◆ These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- ◆ Operation sound level may differ depending on operation and ambient conditions.

2) NC curves

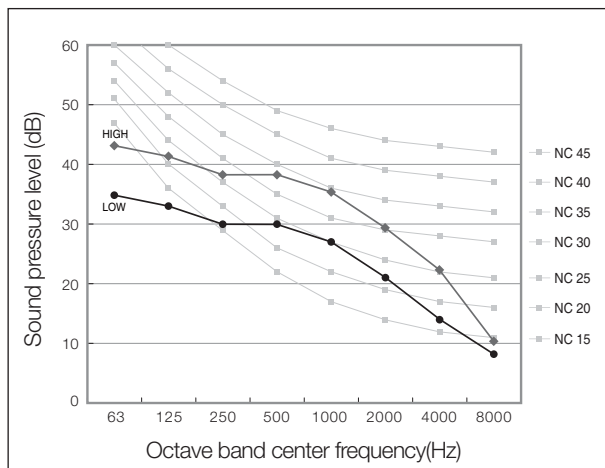
(1) AM036FNFDEH***



(2) AM056FNFDEH***



(3) AM071FNFDEH***



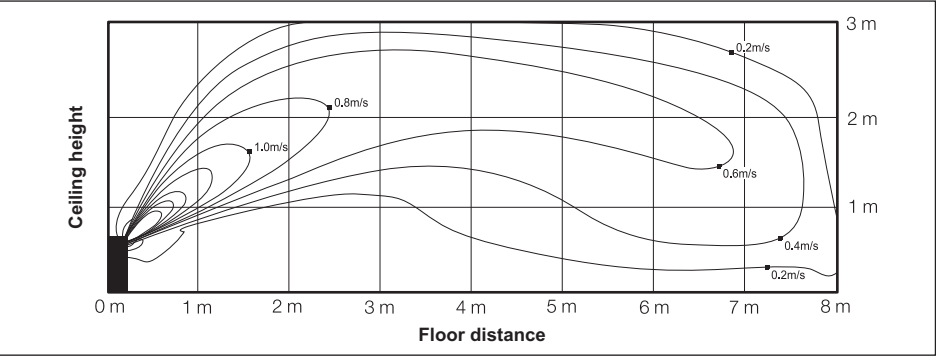
8 Floor Standing

8-6. Temperature and air flow distribution

1) AM036FNFDEH***

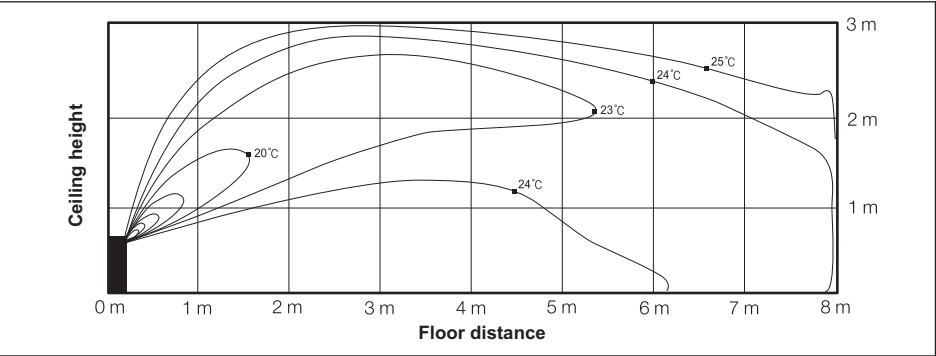
(1) Cooling air velocity distribution

◆ Discharge angle : 36°



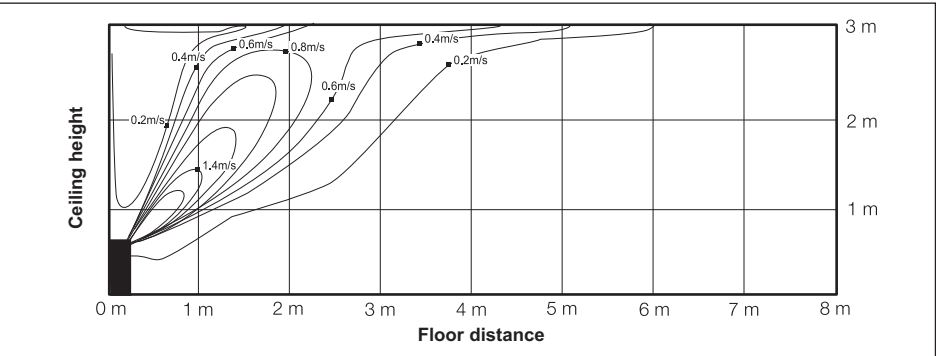
(2) Cooling temperature distribution

◆ Discharge angle : 36°



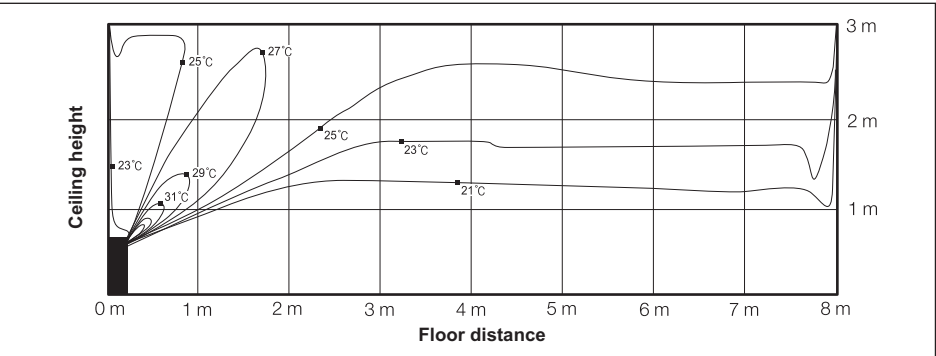
(3) Heating air velocity distribution

◆ Discharge angle : 54°



(4) Heating temperature distribution

◆ Discharge angle : 54°



III. VENTILATION

1	ERV PLUS.....	106
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1 ERV PLUS

(AM***FNKDEH***)

1-1. Specifications.....	
1-2. Capacity tables	
1-3. Dimensional drawing.....	
1-4. Electrical wiring diagram	
1-5. Sound pressure level	
1-6. Recommended operation range	

1-1. Specifications

1) Technical specifications

*Refer to following capacities when using the product with outdoor unit: AM050FNKDEH : 3.6kW , AM100FNKDEH : 7.1 kW

Model				AM050FNKDEH***	AM100FNKDEH***
Power Supply				Ø, #, V, Hz	1, 2, 220~240, 50
Performance	Temp. Exchange Efficiency	Cooling	Turbo	-	70
			high	-	70
			low	-	74
		Heating	Turbo	-	75
			high	-	75
			low	-	79
	Effective Enthalpy Exchange Efficiency	Cooling	Turbo	-	60
			high	-	60
			low	-	66
		Heating	Turbo	-	73
			high	-	73
			low	-	79
Outside Air Processing Capacity		Cooling *1) (DX Coil/Element)	-	5.1(3.6/1.5)	
		Heating *2) (DX Coil/Element)	-	6.5(4.0/2.5)	
Fan	Airflow rate		Turbo/High/Low(UL)	CMM	500/500/360
			l/s	8333/8333/6000	
	External Static pressure		Turbo/High/Low	mmAq	16.3/10.2/8.7
			Pa	160/100/85	
	Motor		Type	-	BLDC
			Output	W	180
			Number of unit	EA	2
Power	Power Input		Turbo	W	220
			high		140
			low		90
	Current Input		Turbo	A	1.70
			high		1.00
			low		0.60
Option Code				-	015617152380
Piping Connections	Liquid Pipe		Ø, mm	6.35	
			Ø, inch	1/4	
	Gas Pipe		Ø, mm	12.7	
			Ø, inch	1/2	
	Drain Pipe		Ø, mm	VP25 (OD32, ID25)	
			Ø, inch	VP25 (OD 1-1/4", ID 1")	
	Water Supply		Ø, mm	12.7	
			Ø, inch	1/2	
Field Wiring	Power Source Wire		mm ²	1.5/2.5	
	Transmission Cable		mm ²	0.75~1.5	
Refrigerant	Type		-	R410A	
	Control Method		-	EEV	
Sound Pressure	Sound Level*4)		Turbo / High / Low	dBA	36 / 32 / 28
Dimensions	Net Weight		kg	61.0	
	Shipping Weight		kg	75.2	
	Net Dimensions (W×H×D)		mm	1,553 x 270 x 1,000	
	Shipping Dimensions (W×H×D)		mm	1,847 x 349 x 1,300	
	Supply/Return/Exhaust/Outside Duct Flange (Ø)		mm	200	
Accessory	Air Filter		-	High Efficiency Filter(PP)	
Optional Accessory	Humidifier*3)		Type	-	
			Qty	EA	
			Amount	kg/h	
			Pressure Feed Water	MPa	
	S-Plasma ion kit		-	MSD-EAN1	
	CO ₂ sensor		-	MOS-C1	
	Humidity Sensor		-	Option	
Ambient Condition	Around Unit		-	0~40°C DB, 80%RH or less	
	OA *5)		-	-15~40°C DB, 80%RH or less	
	RA *5)		-	0~40°C DB, 80%RH or less	

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

*1) Nominal cooling capacities are based on;

- Indoor temperature : 27°C DB, 19°C WB - Outdoor temperature : 35°C DB, 24°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

*2) Nominal heating capacities are based on;

- Indoor temperature : 20°C DB, 15°C WB

- Outdoor temperature : 7°C DB, 6°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

*3) Humidifying capacity is based on;

- Indoor temperature : 20°C DB, 15°C WB

- Outdoor temperature : 7°C DB, 6°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

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

*5) OA: fresh air from outdoor. RA: return air from room.

*6) These products contain R410A which is fluorinated greenhouse gas.

1-2. Capacity tables

1) Cooling

TC : Total Capacity(kW), SHC : Sensible Heat Capacity(kW)

Model	Outdoor temperature (°C)		Indoor temperature													
			20 (°C, DB)		23 (°C, DB)		26 (°C, DB)		27 (°C, DB)		28 (°C, DB)		30 (°C, DB)		32 (°C, DB)	
	DB	WB	14 (°C, WB)		16 (°C, WB)		18 (°C, WB)		19 (°C, WB)		20 (°C, WB)		22 (°C, WB)		24 (°C, WB)	
			TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
500	10	4	2.5	2.2	2.9	2.5	3.4	2.7	3.6	2.8	3.7	2.8	4.0	2.8	4.3	2.7
	12	5.5	2.5	2.2	2.9	2.5	3.4	2.7	3.6	2.8	3.7	2.8	4.0	2.8	4.3	2.7
	14	7	2.5	2.2	2.9	2.5	3.4	2.7	3.6	2.8	3.7	2.8	4.0	2.8	4.3	2.7
	16	8.5	2.5	2.2	2.9	2.5	3.4	2.7	3.6	2.8	3.7	2.8	4.0	2.8	4.3	2.7
	18	10.5	2.5	2.2	2.9	2.5	3.4	2.7	3.6	2.8	3.7	2.8	4.0	2.8	4.3	2.7
	20	12	2.5	2.2	2.9	2.5	3.4	2.7	3.6	2.8	3.7	2.8	4.0	2.8	4.2	2.6
	21	14	2.5	2.2	2.9	2.5	3.4	2.7	3.6	2.8	3.7	2.8	4.0	2.8	4.2	2.6
	23	15	2.5	2.2	2.9	2.5	3.4	2.7	3.6	2.8	3.7	2.8	4.0	2.8	4.2	2.6
	25	16	2.5	2.2	2.9	2.5	3.4	2.7	3.6	2.8	3.7	2.8	4.0	2.8	4.2	2.6
	27	18	2.5	2.2	2.9	2.5	3.4	2.7	3.6	2.8	3.7	2.8	4.0	2.8	4.2	2.6
	29	19	2.5	2.2	2.9	2.5	3.4	2.7	3.6	2.8	3.7	2.8	4.0	2.8	4.2	2.6
	31	22	2.5	2.2	2.9	2.5	3.4	2.7	3.6	2.8	3.7	2.8	4.0	2.8	4.2	2.6
	35	24	2.5	2.2	2.9	2.5	3.4	2.7	3.6	2.8	3.7	2.8	4.0	2.8	4.2	2.6
	37	26	2.5	2.2	2.9	2.5	3.4	2.7	3.6	2.8	3.7	2.8	3.9	2.7	4.2	2.6
	39	28	2.5	2.2	2.9	2.5	3.4	2.7	3.6	2.8	3.7	2.8	3.9	2.7	4.1	2.5
1000	10	4	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	8.0	5.7	8.5	5.4
	12	5.5	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	7.9	5.6	8.5	5.4
	14	7	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	7.9	5.6	8.5	5.4
	16	8.5	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	7.9	5.6	8.4	5.3
	18	10.5	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	7.9	5.6	8.4	5.3
	20	12	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	7.9	5.6	8.4	5.3
	21	14	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	7.9	5.6	8.4	5.3
	23	15	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	7.9	5.6	8.4	5.3
	25	16	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	7.9	5.6	8.4	5.3
	27	18	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	7.9	5.6	8.4	5.3
	29	19	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	7.9	5.6	8.4	5.3
	31	22	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	7.9	5.6	8.4	5.3
	35	24	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	7.9	5.6	8.4	5.3
	37	26	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.3	5.5	7.8	5.5	8.2	5.2
	39	28	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.3	5.5	7.7	5.4	8.1	5.1

2) Heating

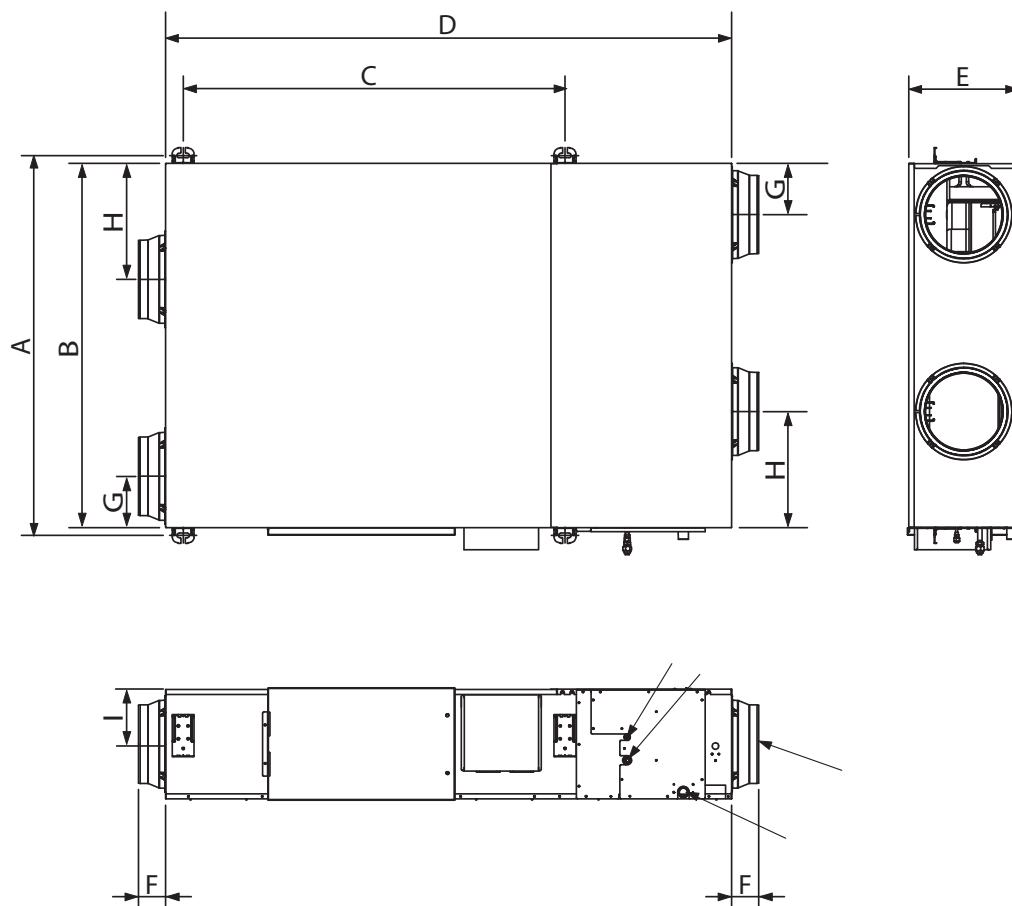
TC : Total Capacity(kW)

Model	Outdoor temperature (°C)		Indoor temperature (°C, DB)				
			16.0	18.0	20.0	22.0	24.0
	DB	WB	TC kW	TC kW	TC kW	TC kW	TC kW
500	-20	-21	-	-	-	-	-
	-17	-18	-	-	-	-	-
	-15	-16	-	-	-	-	-
	-12	-13	-	-	-	-	-
	-10	-11	2.9	2.9	2.9	2.8	2.8
	-7	-8	3.1	3.1	3.0	3.0	2.9
	-5	-6	3.3	3.2	3.2	3.1	3.0
	-3	-4	3.4	3.4	3.3	3.2	3.1
	0	-1	3.6	3.6	3.5	3.4	3.2
	3	2.2	3.8	3.7	3.7	3.5	3.4
	5	4.1	3.9	3.9	3.8	3.6	3.4
	7	6	4.1	4.1	4.0	3.7	3.4
	9	7.9	4.2	4.1	4.0	3.7	3.4
	11	9.8	4.4	4.2	4.0	3.7	3.4
	13	12	4.5	4.2	4.0	3.7	3.4
	15	14	4.6	4.3	4.0	3.7	3.4
1000	-20	-21	-	-	-	-	-
	-17	-18	-	-	-	-	-
	-15	-16	-	-	-	-	-
	-12	-13	-	-	-	-	-
	-10	-11	5.9	5.8	5.7	5.6	5.6
	-7	-8	6.2	6.1	6.0	5.9	5.8
	-5	-6	6.5	6.5	6.4	6.2	6.0
	-3	-4	6.9	6.8	6.7	6.4	6.2
	0	-1	7.2	7.1	7.0	6.7	6.4
	3	2.2	7.6	7.5	7.3	7.1	6.8
	5	4.1	7.9	7.8	7.7	7.2	6.8
	7	6	8.2	8.1	8.0	7.4	6.8
	9	7.9	8.5	8.2	8.0	7.4	6.8
	11	9.8	8.7	8.4	8.0	7.4	6.8
	13	12	9.0	8.5	8.0	7.4	6.8
	15	14	9.2	8.6	8.0	7.4	6.8

1 ERV PLUS

1-3. Dimensional drawing

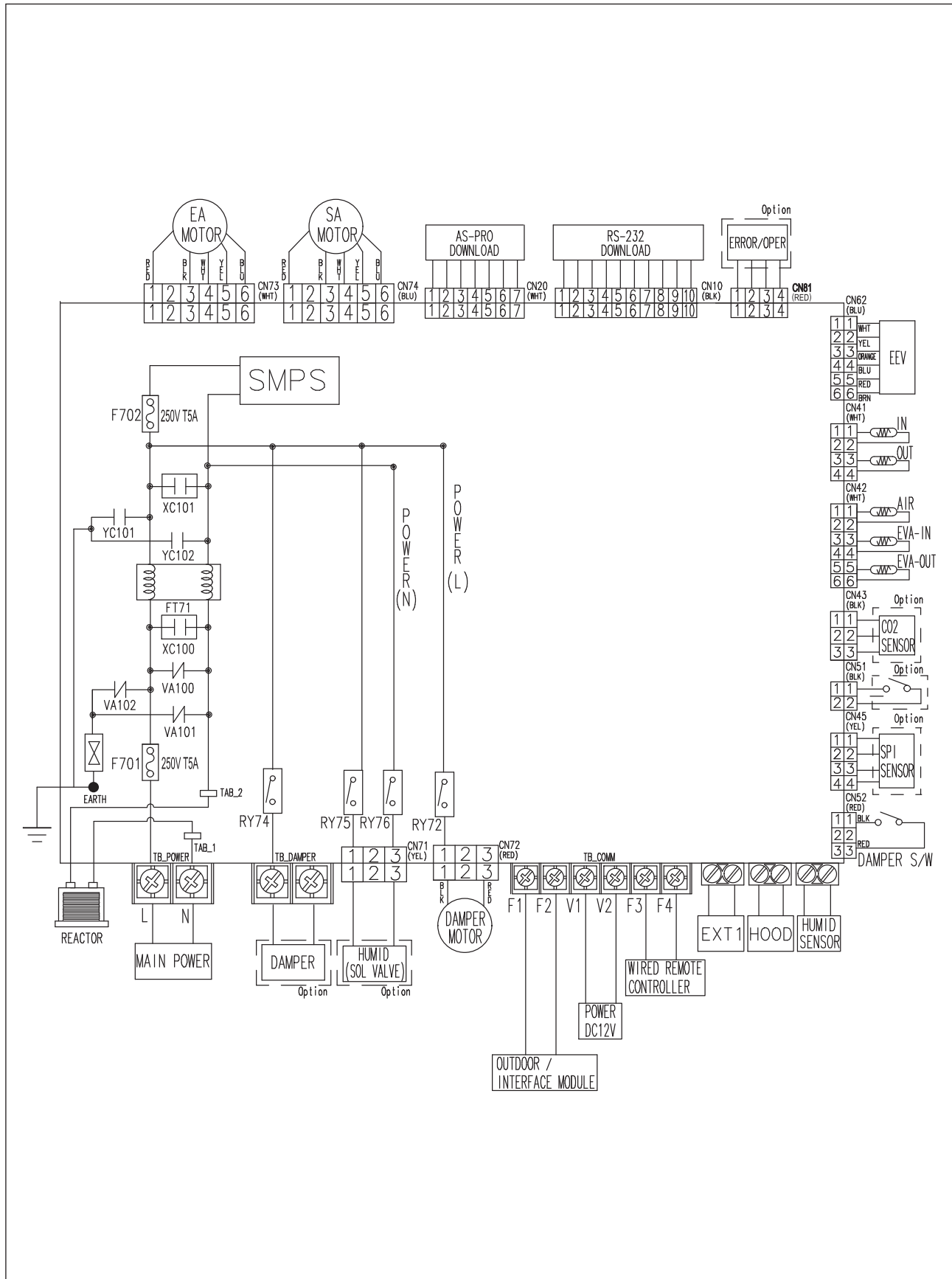
Unit:mm



Model	A	B	C	D	E	F	G	H	I
RHF050KHEA	1036	1000	987	1553	270	99	130	253	135
RHF100KHEA	1183	1135	1189	1763	340	84	160	362	170

No.	Name	Description	
		500CMH	1000CMH
①	Liquid pipe connection	Ø6.35 (1/4")	
②	Gas pipe connection	Ø12.70 (1/2")	
③	Drain pipe connection	VP25 (OD32, ID25)	
④	Nominal diameter for duct	AM050FNKDEH	Ø200
		AM100FNKDEH	Ø250

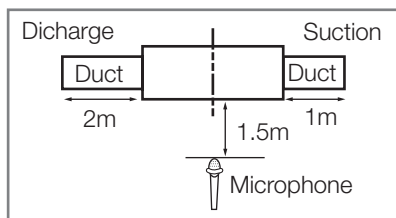
1-4. Electrical wiring diagram



1 ERV PLUS

1-5. Sound pressure level

1) Operation sound level



Unit : dB(A)

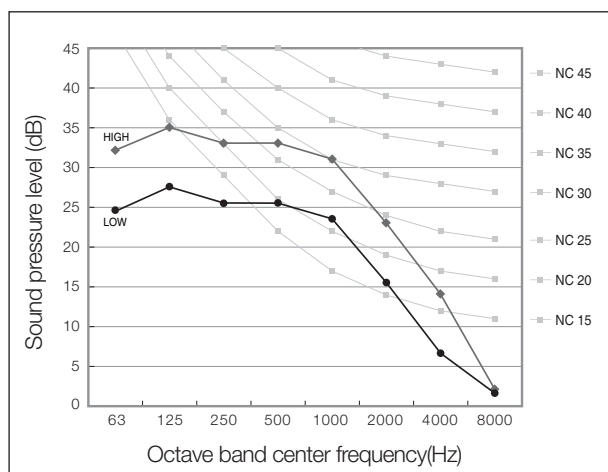
Model	Turbo	High	Low
AM050FNKDEH***	36	32	28
AM100FNKDEH***	36	33	31

✓ Note

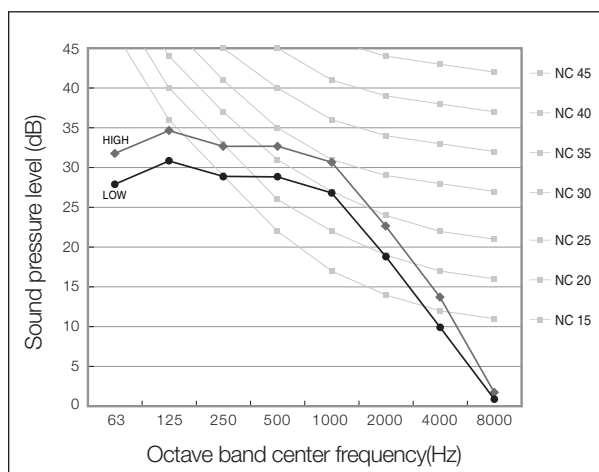
- ◆ These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- ◆ Operation sound level may differ depending on operation and ambient conditions.

2) NC curves

(1) AM050FNKDEH***

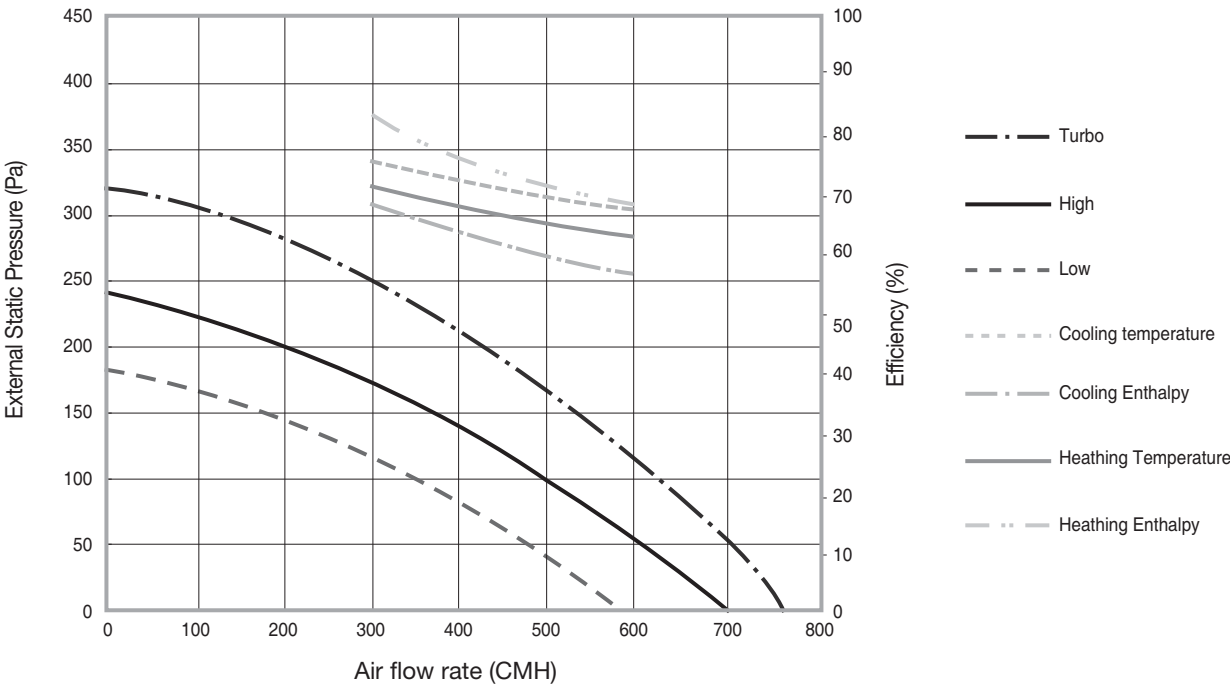


(2) AM100FNKDEH***

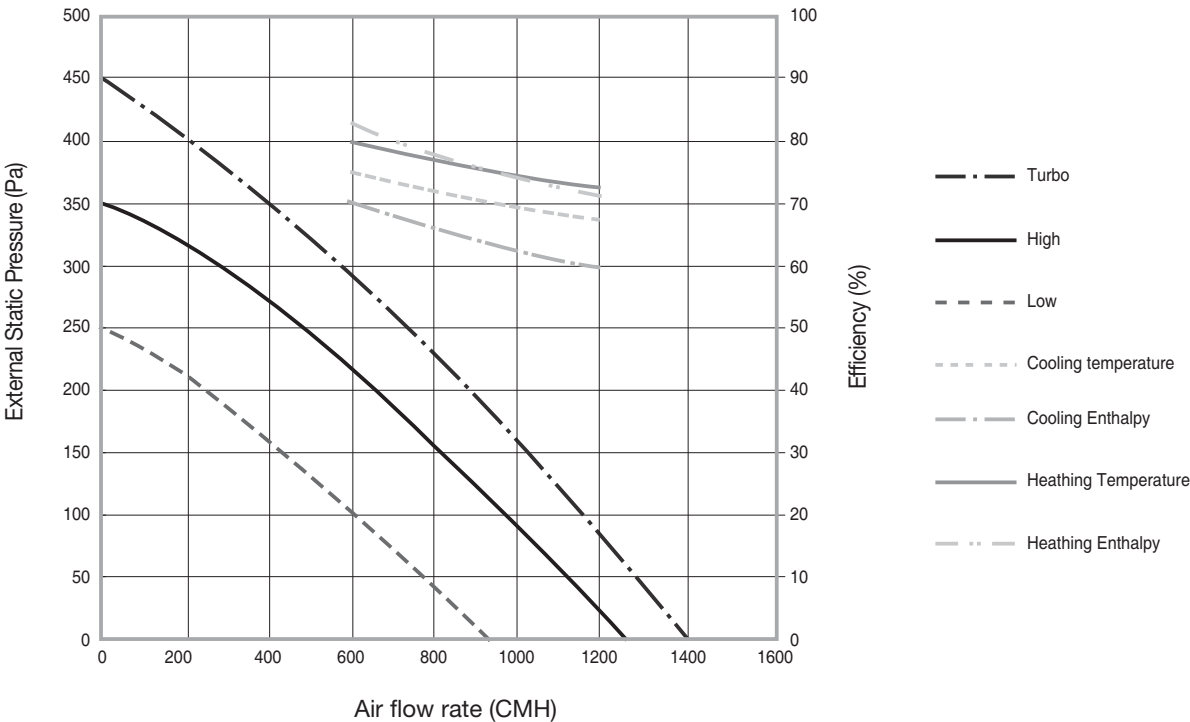


1-6. Recommended operation range

(1) AM050FNKDEH***



(2) AM100FNKDEH***



IV. Hydro unit

- 1 Hydro unit HE..... 114
- 2 Hydro unit HT..... 127



1 Hydro unit HE

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1 Hydro Unit HE

1-1. Specifications

1) Technical specifications

Model				AM160FNBDEH***	AM320FNBDEH***	AM500FNBDEH***
Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50
Mode			-	HP/HR	HP/HR	HP/HR
Performance	Capacity (Nominal)	Cooling *1)	kW	14.0	28.0	44.8
			Btu/h	47,800	95,600	152,900
		Heating *2)	kW	16.0	31.5	50.4
			Btu/h	54,600	107,500	172,000
Power	Power Input (Nominal)	Cooling *1)	W	10.00	10.00	10.00
		Heating *2)		10.00	10.00	10.00
	Current Input (Nominal)	Cooling *1)	A	0.05	0.05	0.05
		Heating *2)		0.05	0.05	0.05
	MCA (Including External Contact)			2.2	2.2	2.2
	MFA		A	2.75	2.75	2.75
Compressor	Type		-	-	-	-
	Output		kW × n	-	-	-
	Model Name		-	-	-	-
	Oil	Type	-	-	-	-
	Initial Charge		cc	-	-	-
Heat Exchanger	Type		-	PHE	PHE	PHE
	Quantity		-	1	1	1
	Pipe Size		Ø, inch	PT 1 (25A)	PT 1 (25A)	PT 1-1/4 (32A)
	Water Flow Rate		LPM	48	92	150
	Flow Switch		LPM	20	30	50
Option Code			-	01004C-105000-208C8C-332200	01004C-105000-231C1C-332200	01004C-105000-232D2D-332200
Piping Connections	Liquid Pipe		Ø, mm	9.52	9.52	12.7
			Ø, inch	3/8"	3/8"	1/2"
	Gas Pipe		Ø, mm	15.88	22.2	28.58
			Ø, inch	5/8"	7/8"	1 1/8"
	Drain Pipe		Ø,mm	-	-	-
FieldWiring	Power Source Wire (L<10m, Single Installation)		mm2	2.5	2.5	2.5
	Transmission Cable		mm2	0.75 ~ 1.5	0.75 ~ 1.5	0.75 ~ 1.5
Refrigerant	Type		-	-	-	-
	Control Method		-	EEV	EEV	EEV
Sound	Sound Pressure *3)		dB(A)	27	28	31
	Sound Power			-	-	-
Dimensions	Net Weight		kg	29.00	33.00	40.00
	Shipping Weight		kg	31.00	35.00	42.00
	Net Dimensions (W×H×D)		mm	518 x 627 x 330	518 x 627 x 330	518 x 627 x 330
	Shipping Dimensions (W×H×D)		mm	652 x 700 x 426	652 x 700 x 426	652 x 700 x 426
Operating Temp. Range	Ambient	Cooling	℃	-5.0 ~ 48.0	-5.0 ~ 48.0	-5.0 ~ 48.0
		Heating	℃	-20 ~ 24	-20 ~ 24	-20 ~ 24
		Hot Water (Main Cooling, HR)	℃	-20.0 ~ 24 (30)	-20.0 ~ 24 (30)	-20.0 ~ 24 (30)
	Leaving Water	Cooling	℃	5.0 ~ 30.0	5.0 ~ 30.0	5.0 ~ 30.0
		Heating	℃	20.0 ~ 50.0	20.0 ~ 50.0	20.0 ~ 50.0

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

*1) Nominal cooling capacities are based on;

- Water temperature : 23°C inlet, 18°C outlet
- Indoor temperature : 27°C DB, 19°C WB
- Outdoor temperature : 35°C DB, 24°C WB

*2) Nominal heating capacities are based on;

- Water temperature : 30°C inlet, 35°C outlet
- Indoor temperature : 20°C DB
- Outdoor temperature : 7°C DB, 6°C WB

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

*4) These products contain R410A which is fluorinated greenhouse gas.

1-2. Capacity tables

1) Cooling

Capacity (kW)	Outdoor temperature (°C)	Water inlet temperature (°C)				
	DB	10	15	20	25	30
14.0	-5	11.2	12.6	14.5	15.8	16.6
	-3	11.2	12.6	14.5	15.8	16.6
	-1	11.2	12.6	14.5	15.8	16.6
	0	11.2	12.6	14.5	15.8	16.6
	2	11.2	12.6	14.5	15.8	16.6
	4	11.2	12.6	14.5	15.8	16.6
	6	11.2	12.6	14.5	15.8	16.6
	8	11.2	12.6	14.5	15.8	16.6
	10	11.2	12.6	14.5	15.8	16.6
	12	11.2	12.6	14.5	15.8	16.6
	14	11.2	12.6	14.5	15.8	16.6
	16	11.2	12.6	14.5	15.8	16.6
	18	11.2	12.6	14.5	15.8	16.6
	20	11.2	12.6	14.5	15.8	16.6
	22	11.2	12.6	14.5	15.8	16.4
	24	11.2	12.6	14.3	15.6	16.2
	26	11.2	12.4	14.1	15.4	16.0
	28	10.8	12.2	14.0	15.1	15.8
	30	10.4	12.0	13.8	14.9	15.6
	32	10.1	11.8	13.6	14.7	15.5
28.0	34	9.7	11.6	13.4	14.5	15.3
	36	9.3	11.4	13.3	14.3	15.1
	38	8.9	11.2	13.1	14.1	14.9
	40	8.6	11.0	13.0	13.8	14.7
	-5	22.4	28.0	30.9	34.0	35.3
	-3	22.4	28.0	30.9	34.0	35.3
	-1	22.4	28.0	30.9	34.0	35.3
	0	22.4	28.0	30.9	34.0	35.3
	2	22.4	28.0	30.9	34.0	35.3
	4	22.4	28.0	30.9	34.0	35.3
	6	22.4	28.0	30.9	34.0	35.3
	8	22.4	28.0	30.9	34.0	35.3
	10	22.4	28.0	30.9	34.0	35.3
	12	22.4	28.0	30.9	34.0	35.3
	14	22.4	28.0	30.9	34.0	35.3
	16	22.4	28.0	30.9	34.0	35.3
	18	22.4	28.0	30.9	34.0	35.3
	20	22.4	28.0	30.9	34.0	35.3
	22	22.4	28.0	30.9	34.0	34.7
	24	22.4	28.0	30.3	33.2	34.0
	26	22.4	27.2	29.7	32.4	33.3
44.8	28	21.6	26.5	29.0	31.5	32.5
	30	20.9	25.7	28.4	30.7	31.8
	32	20.1	24.9	27.8	29.9	31.1
	34	19.4	24.2	27.2	29.1	30.4
	36	18.6	23.4	26.6	28.3	29.7
	38	17.9	22.7	26.0	27.4	28.9
	40	17.2	21.9	25.4	26.5	28.2
	-5	35.8	40.3	46.3	50.5	53.1
	-3	35.8	40.3	46.3	50.5	53.1
	-1	35.8	40.3	46.3	50.5	53.1
	0	35.8	40.3	46.3	50.5	53.1
	2	35.8	40.3	46.3	50.5	53.1
	4	35.8	40.3	46.3	50.5	53.1
	6	35.8	40.3	46.3	50.5	53.1
	8	35.8	40.3	46.3	50.5	53.1
	10	35.8	40.3	46.3	50.5	53.1
	12	35.8	40.3	46.3	50.5	53.1
	14	35.8	40.3	46.3	50.5	53.1
	16	35.8	40.3	46.3	50.5	53.1
	18	35.8	40.3	46.3	50.5	53.1
	20	35.8	40.3	46.3	50.5	53.1
	22	35.8	40.3	46.3	50.5	52.4
	24	35.8	40.3	45.8	49.8	51.8
	26	35.8	39.7	45.3	49.2	51.3
	28	34.6	39.0	44.7	48.5	50.7
	30	33.4	38.4	44.2	47.8	50.1
	32	32.2	37.7	43.7	47.1	49.5
	34	31.0	37.1	43.1	46.4	48.9
	36	29.8	36.4	42.6	45.7	48.3
	38	28.6	35.8	42.0	45.0	47.7
	40	27.4	35.1	41.4	44.3	47.1

1 Hydro Unit HE

1-2. Capacity tables

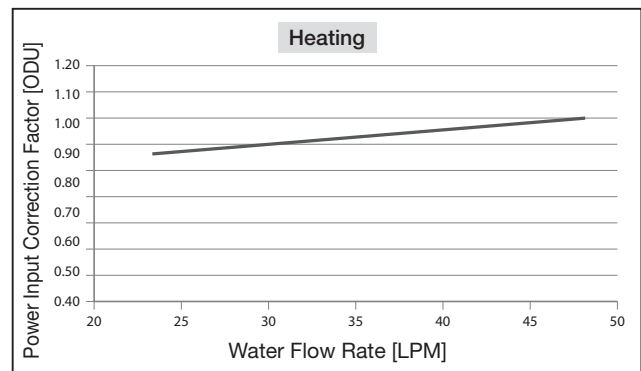
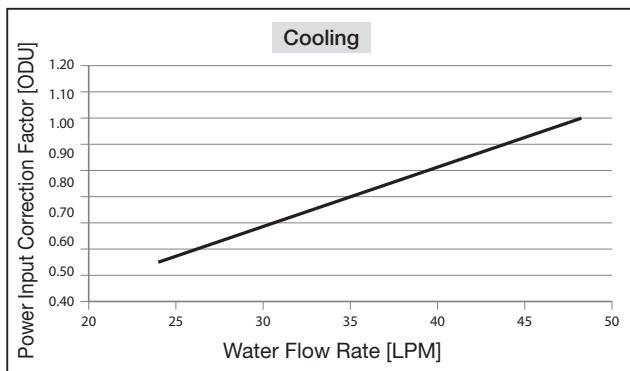
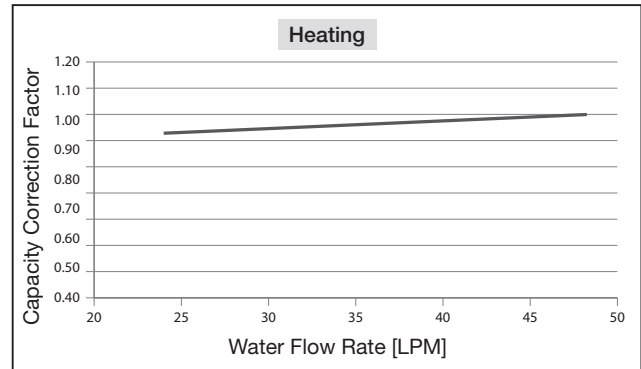
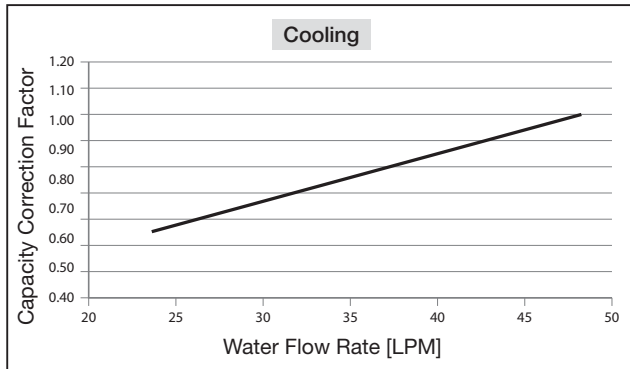
1) Heating

Capacity (kW)	Outdoor temperature (°C)		Water inlet temperature (°C)			
	DB	WB	20	30	40	45
16.0	-20.0	-20.2	12.4	11.7	7.2	4.7
	-18.4	-18.6	12.7	12.0	7.8	5.5
	-16.7	-17.0	13.0	12.2	8.3	6.1
	-15.0	-15.3	13.4	12.5	8.9	6.8
	-13.4	-13.8	13.7	12.8	9.4	7.4
	-11.7	-12.1	14.0	13.0	10.0	8.0
	-10.0	-10.5	14.3	13.3	10.6	8.6
	-8.4	-8.9	14.6	13.6	11.1	9.2
	-6.7	-7.3	15.0	13.9	11.7	9.6
	-5.0	-5.6	15.3	14.1	12.3	9.6
	-3.4	-4.1	15.6	14.4	12.8	9.6
	-1.7	-2.4	15.9	14.7	12.8	9.6
	0.0	-0.7	16.3	14.9	12.8	9.6
	1.6	0.8	16.6	15.2	12.8	9.6
	3.3	2.5	16.9	15.5	12.8	9.6
	5.0	4.1	17.2	15.7	12.8	9.6
	6.6	5.7	17.5	16.0	12.8	9.6
	7.0	6.0	17.6	16.0	12.8	9.6
	8.3	7.3	17.6	16.0	12.8	9.6
	10.0	8.9	17.6	16.0	12.8	9.6
	11.6	10.4	17.6	16.0	12.8	9.6
	13.3	12.1	17.6	16.0	12.8	9.6
	15.0	13.7	17.6	16.0	12.8	9.6
31.5	-20.0	-20.2	24.4	23.1	14.2	7.9
	-18.4	-18.6	25.4	23.9	15.5	9.2
	-16.7	-17.0	26.5	24.9	17.0	10.6
	-15.0	-15.3	27.5	25.8	18.4	12.0
	-13.4	-13.8	28.5	26.7	19.8	13.3
	-11.7	-12.1	29.5	27.7	21.3	14.8
	-10.0	-10.5	30.5	28.6	22.7	16.2
	-8.4	-8.9	31.5	29.5	24.1	17.5
	-6.7	-7.3	32.6	30.4	25.5	18.9
	-5.0	-5.6	33.6	31.4	27.0	18.9
	-3.4	-4.1	33.8	31.5	28.4	18.9
	-1.7	-2.4	33.8	31.5	28.4	18.9
	0.0	-0.7	33.8	31.5	28.4	18.9
	1.6	0.8	33.8	31.5	28.4	18.9
	3.3	2.5	33.9	31.5	28.4	18.9
	5.0	4.1	33.9	31.5	28.4	18.9
	6.6	5.7	33.9	31.5	28.4	18.9
	7.0	6.0	34.1	31.5	28.4	18.9
	8.3	7.3	34.1	31.5	28.4	18.9
	10.0	8.9	34.1	31.5	28.4	18.9
	11.6	10.4	34.1	31.5	28.4	18.9
	13.3	12.1	34.1	31.5	28.4	18.9
	15.0	13.7	34.1	31.5	28.4	18.9
50.4	-20.0	-20.2	39.1	36.9	22.7	15.2
	-18.4	-18.6	40.1	37.7	24.5	17.2
	-16.7	-17.0	41.1	38.6	26.3	19.2
	-15.0	-15.3	42.1	39.4	28.1	21.3
	-13.4	-13.8	43.1	40.2	29.7	23.2
	-11.7	-12.1	44.1	41.1	31.5	25.2
	-10.0	-10.5	45.2	42.0	33.3	27.2
	-8.4	-8.9	46.1	42.8	35.0	29.1
	-6.7	-7.3	47.1	43.6	36.8	30.2
	-5.0	-5.6	48.2	44.5	38.6	30.2
	-3.4	-4.1	49.1	45.3	40.3	30.2
	-1.7	-2.4	50.2	46.2	40.3	30.2
	0.0	-0.7	51.2	47.1	40.3	30.2
	1.6	0.8	52.2	47.9	40.3	30.2
	3.3	2.5	53.2	48.7	40.3	30.2
	5.0	4.1	54.2	49.6	40.3	30.2
	6.6	5.7	55.2	50.4	40.3	30.2
	7.0	6.0	55.4	50.4	40.3	30.2
	8.3	7.3	55.4	50.4	40.3	30.2
	10.0	8.9	55.4	50.4	40.3	30.2
	11.6	10.4	55.4	50.4	40.3	30.2
	13.3	12.1	55.4	50.4	40.3	30.2
	15.0	13.7	55.4	50.4	40.3	30.2

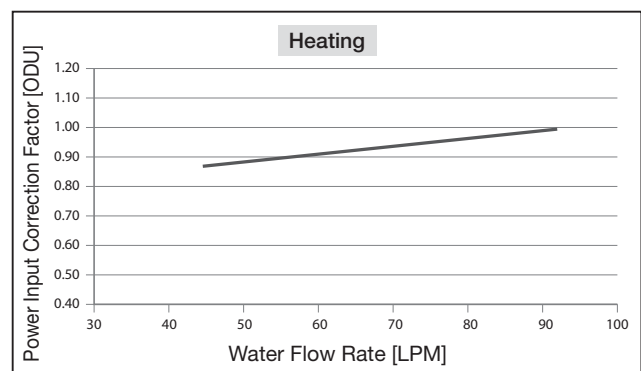
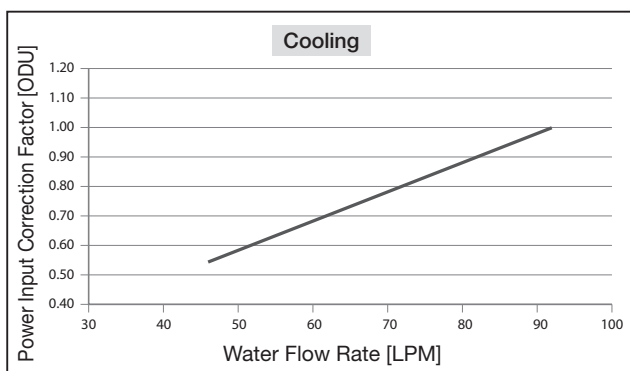
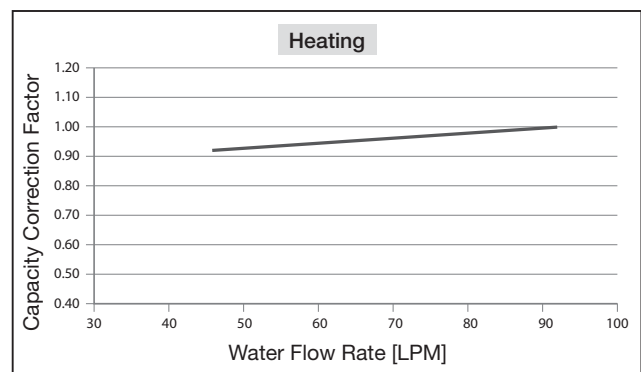
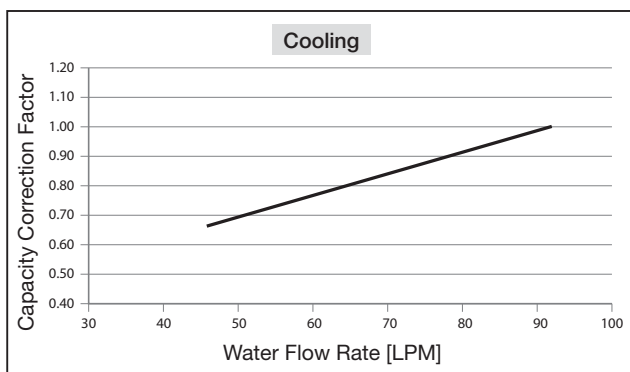
1-3. Capacity & Power input correction

1) By water flow rate

(1) AM160FNBDEH***



(2) AM320FNBDEH***

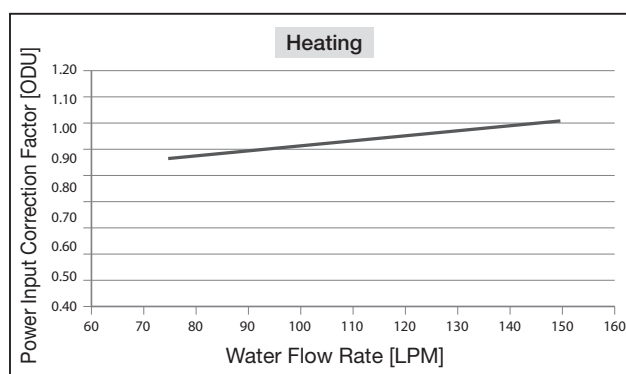
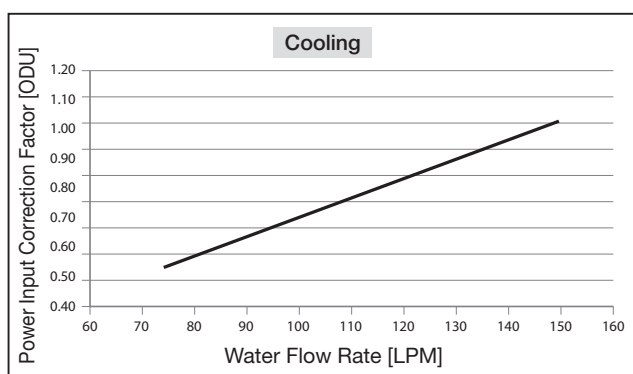
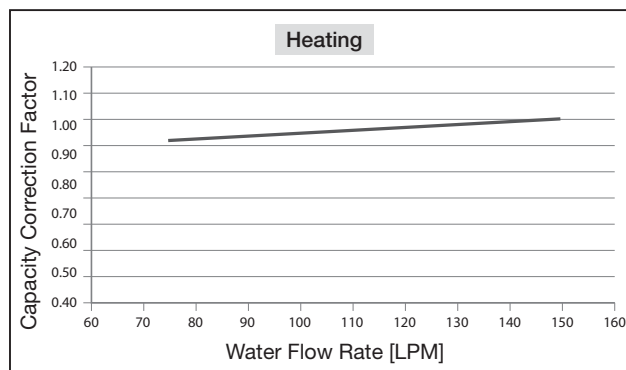
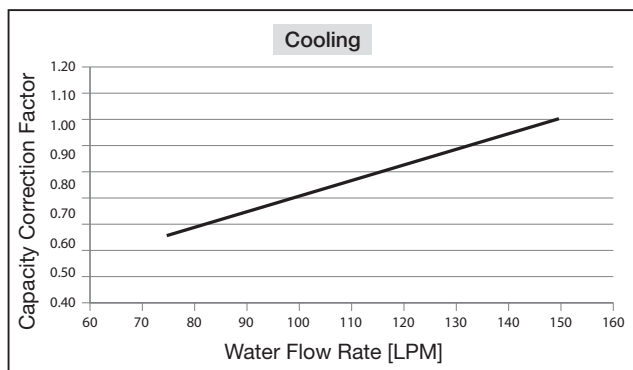


1 Hydro Unit HE

1-3. Capacity & Power input correction

1) By water flow rate

(3) AM500FNBDEH***

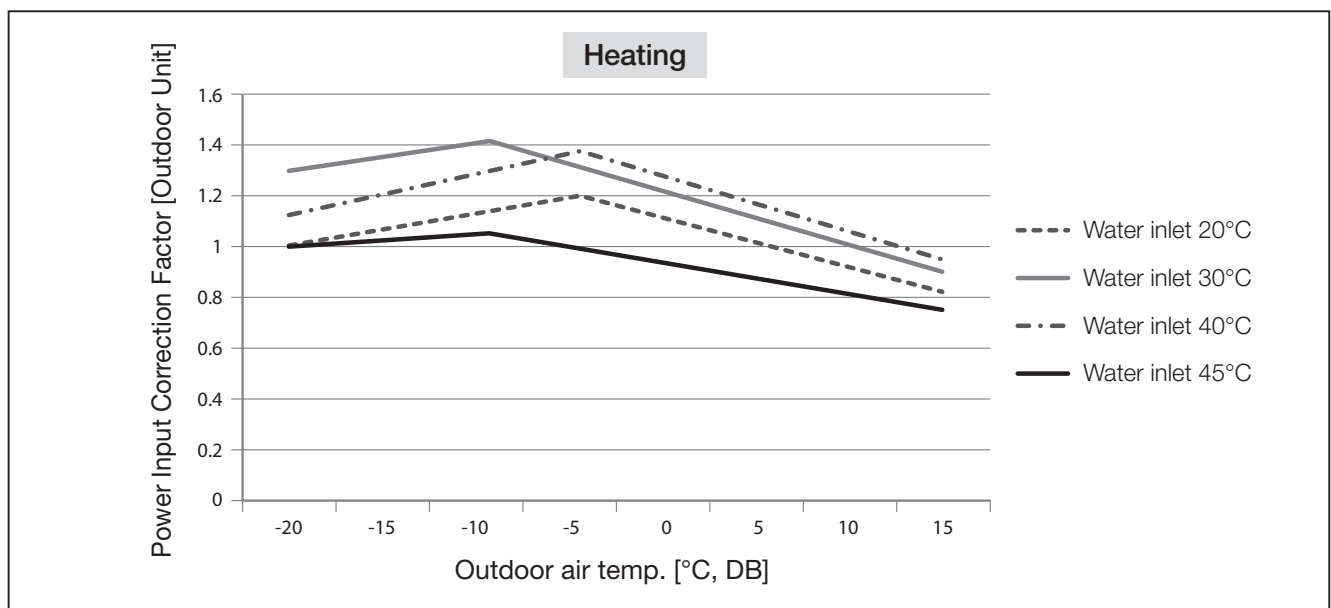
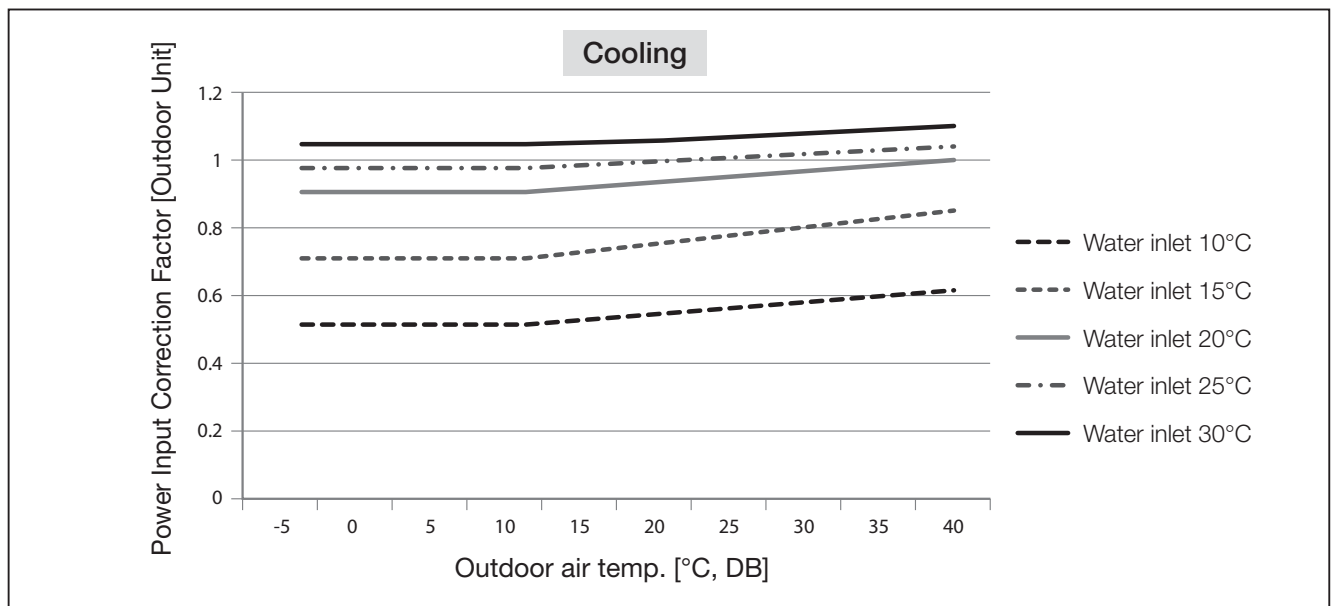


◆ Flow rate by ΔT

Flow Rate [LPM]	5HP	10HP	16HP
$\Delta T=10^{\circ}\text{C}$	24.0	46.0	75.0
$\Delta T=5^{\circ}\text{C}$	48.0	92.0	150.0

* Minimum flow rate of the Hydro unit is 50% of rated flow rate.

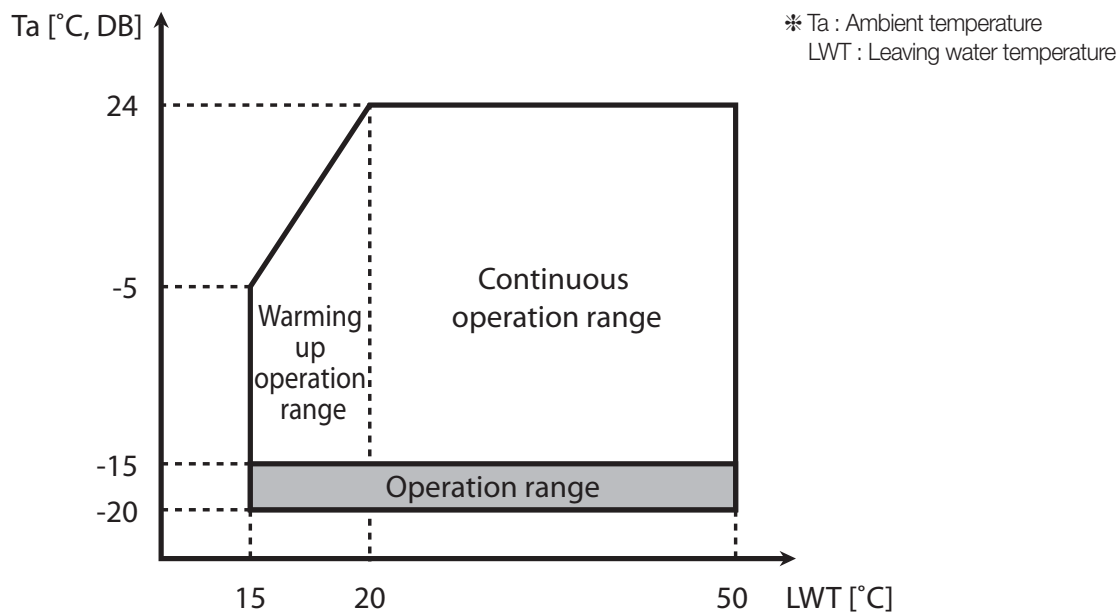
2) By outdoor air temperature



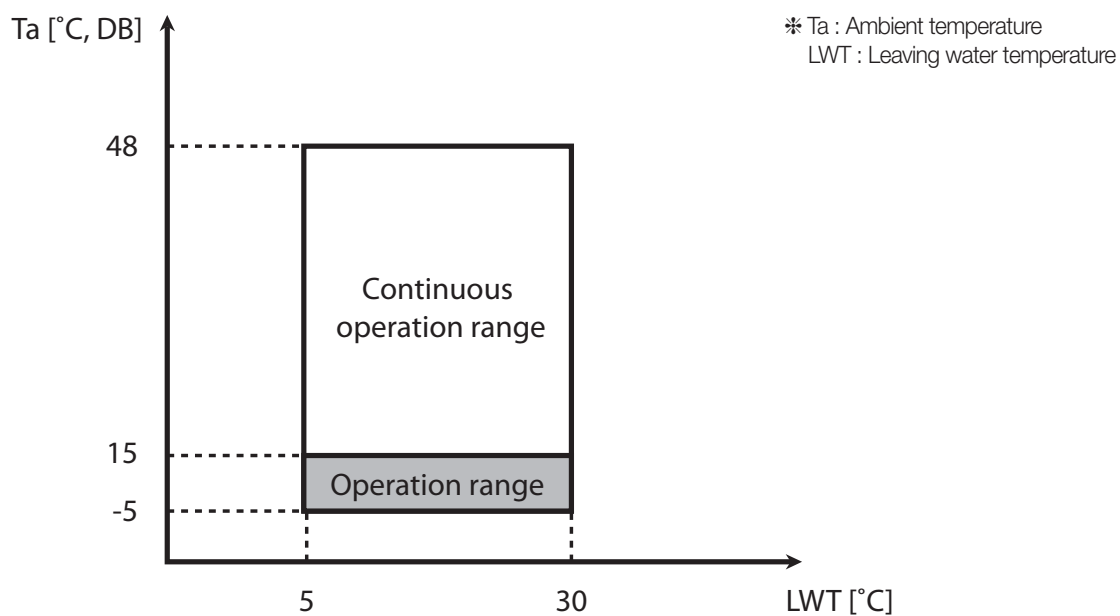
1 Hydro Unit HE

1-4. Operation range

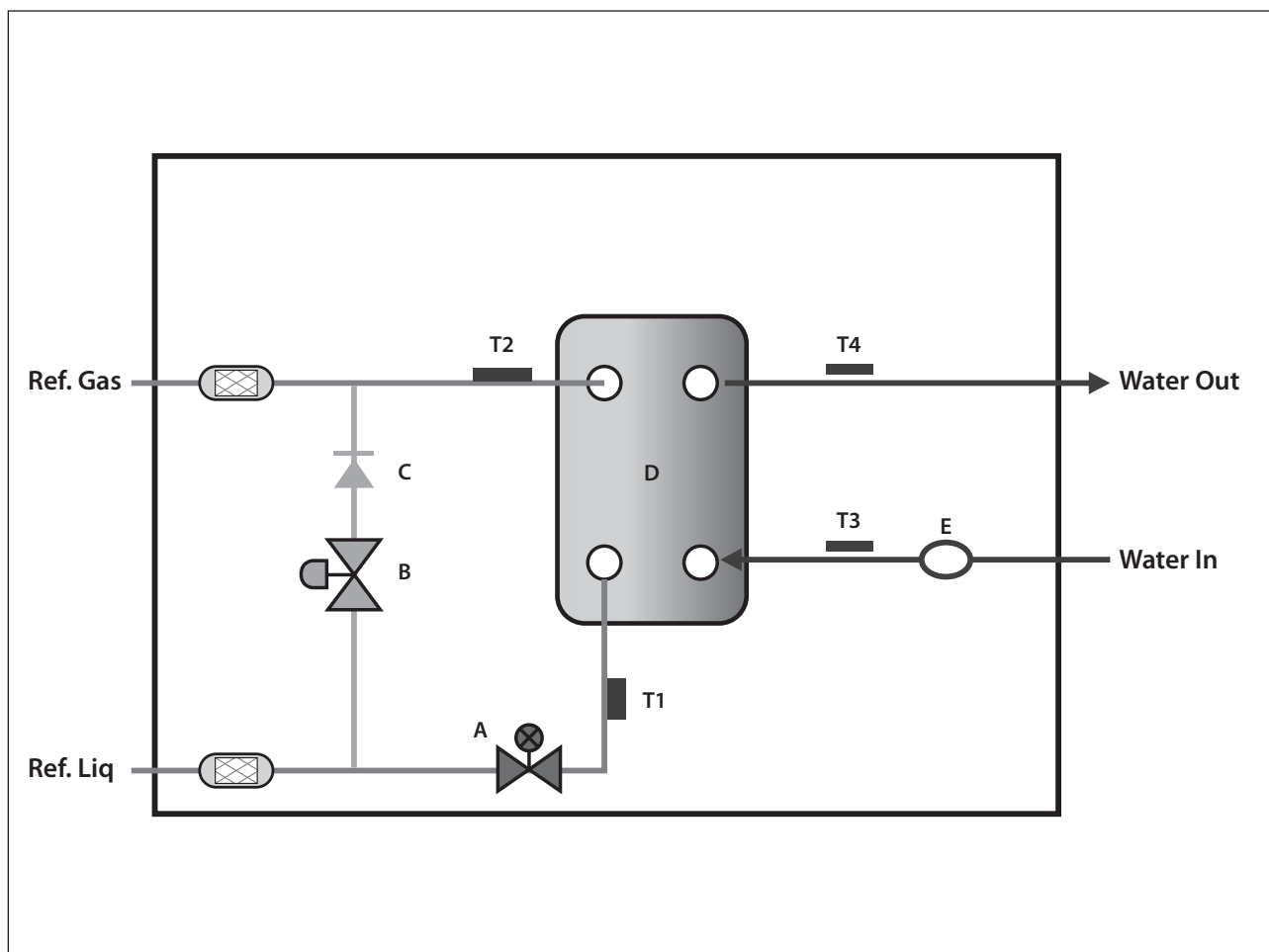
1) Heating



2) Cooling



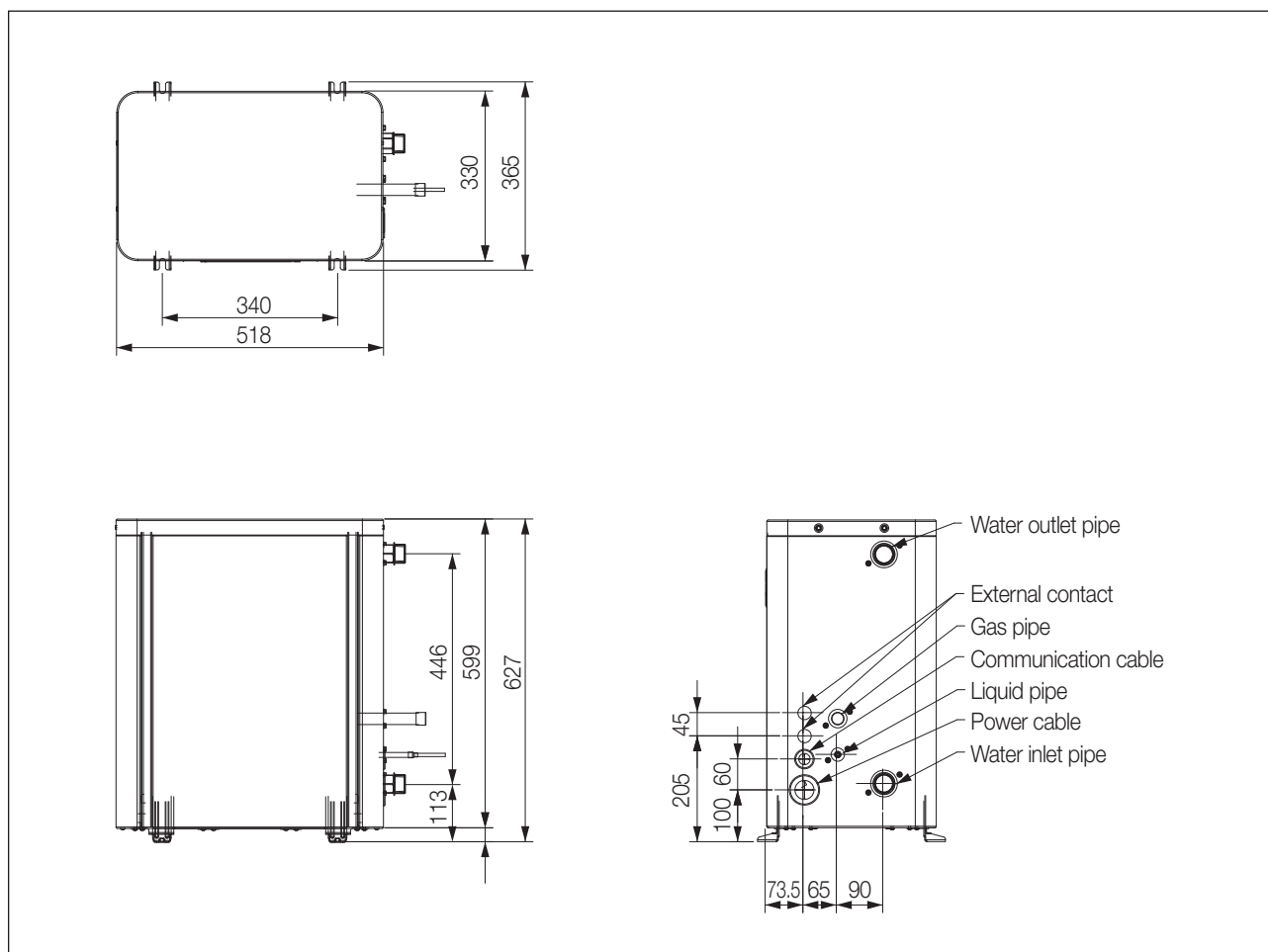
1-5. Cycle diagram



Symbol	Name
A	EEV
B	Bypass Valve for Defrost
C	Check Valve
D	Heat Exchanger
E	Flow Switch
T1	Eva. Inlet Temp. Sensor
T2	Eva. Outlet Temp. Sensor
T3	Water Inlet Temp. Sensor
T4	Water Outlet Temp. Sensor

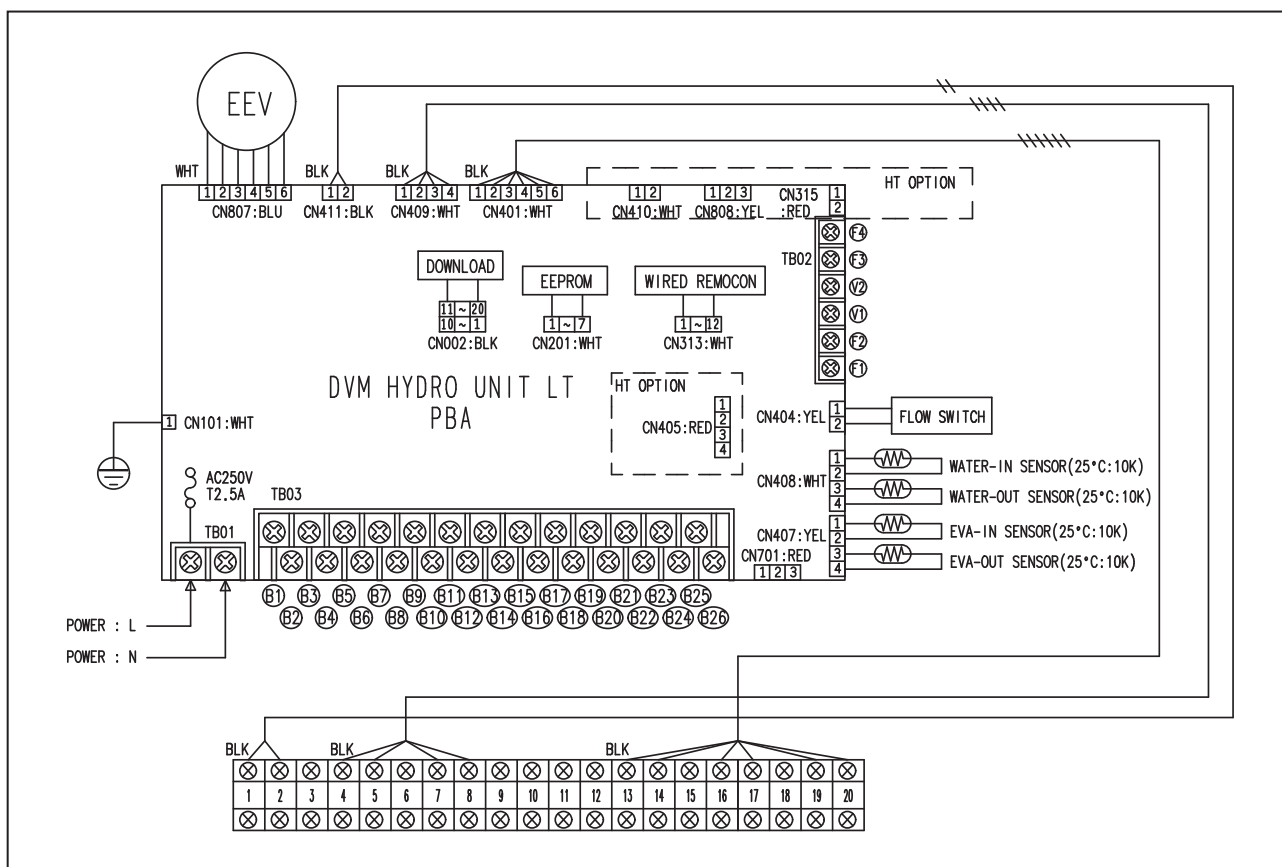
1 Hydro Unit HE

1-6. Dimensional drawing



Model name of DVM Hydro unit		AM160FNBDEH***	AM320FNBDEH***	AM500FNBDEH***
Refrigerant side	Liquid pipe	3/8" (ø9.52)	3/8" (ø9.52)	1/2" (ø12.7)
	Gas pipe	5/8" (ø15.88)	7/8" (ø22.23)	1-1/8" (ø28.58)
Water side	Water inlet/outlet pipe	PT 1 (25 A)	PT 1 (25 A)	PT 1-1/4 (32 A)

1-7. Electrical wiring diagram

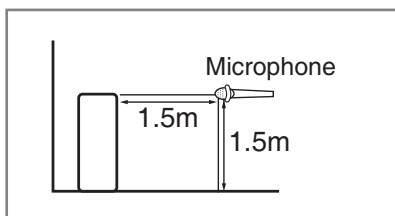


Terminal No.	External contact	Operation status/inspection checklist	Remarks
B1 - B2	Operation check	Check on/off status for operation lamp of the control panel on the site	Optional
B3 - B4	Alarm	Check on/off status for alarm lamp of the panel on the site	Optional
B5 - B6	Main pump	Check the status of the pump operation signal and on/off status of operation at the control panel on the site	Mandatory
B7 - B8	Heater	Check the status of the heater operation signal output at the control panel on the site	Optional
B9 - B10 - B11	3Way 1 V/V	Check the status of signal output and on/off status of valve operation (Direction switch of the indoor hot water tank)	Optional
B12 - B13 - B14	3Way 2 V/V	Check the status of signal output and on/off status of valve operation (Inter locked with solar energy pump signal)	Optional
B15 - B16 - B17	2Way V/V	Check the status of signal output or operation status of the valve	Optional
B19 - B20	AC 230, Thermostat 1	Check the connection status of the thermostat and operation status of the product (cooling)	Optional
B21 - B22	AC 230, Thermostat 2	Check the connection status of the thermostat and operation status of the product (heating)	Optional
B23 - B24	AC 24, Thermostat 1	Check the connection status of the thermostat and operation status of the product (cooling)	Optional
B25 - B26	AC 24, Thermostat 2	Check the connection status of the thermostat and operation status of the product (heating)	Optional
1 - 2	Room temp	Check the temperature display on the wired remote controller after separately installing the indoor temperature sensor (Refer to option setting of the wired remote controller)	Optional
7 - 8	Water tank temp	Check the temperature display on the wired remote controller after installing the the 4~20mA temperature sensor (0°C: 4mA, 100°C: 20mA)	Mandatory (hot water supply)
13 - 14	Solar pump	Check the solar pump contact signal input and status of the operation	Optional
16 - 17	EXT. Control	Check the contact signal input and status of the operation	Optional
19 - 20	Smart Grid	Check the Smart Grid contact input and the signal	Optional

1 Hydro Unit HE

1-8. Sound pressure level

1) Operation sound level



Unit : dB(A)

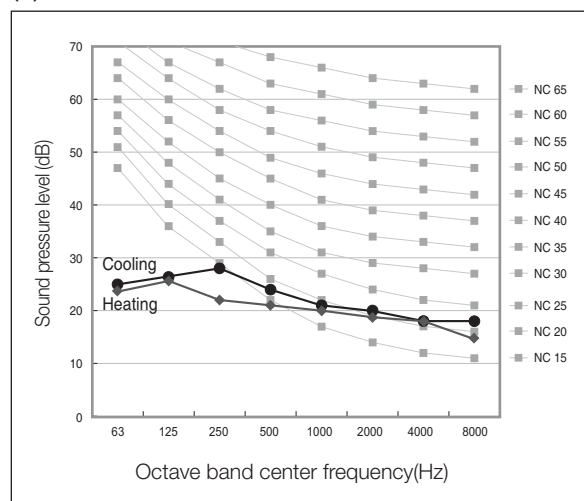
Model	Cooling	Heating
AM160FNBDEH***	27	26
AM320FNBDEH***	28	27
AM500FNBDEH***	30	31

✓ Note

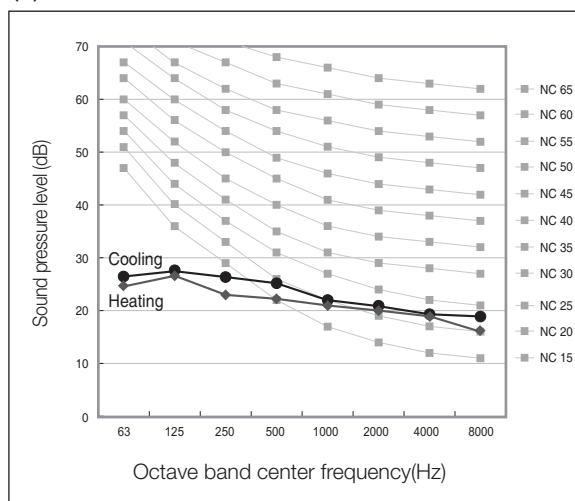
- ◆ These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- ◆ Operation sound level may differ depending on operation and ambient conditions.

2) NC curves

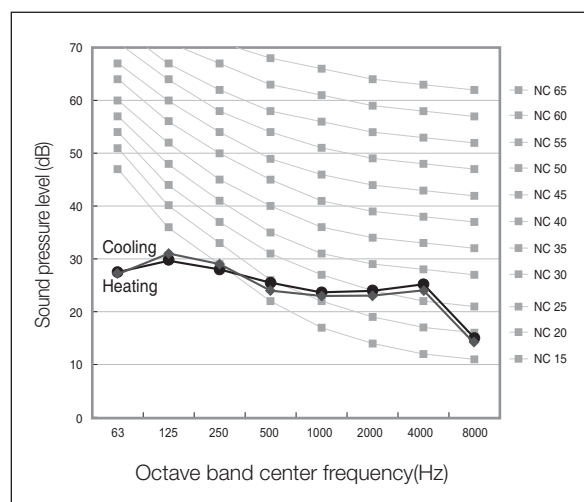
(1) AM160FNBDEH***



(2) AM320FNBDEH***

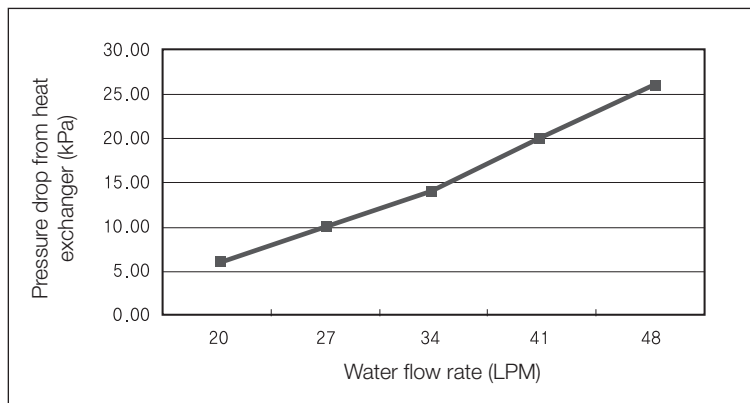


(3) AM500FNBDEH***

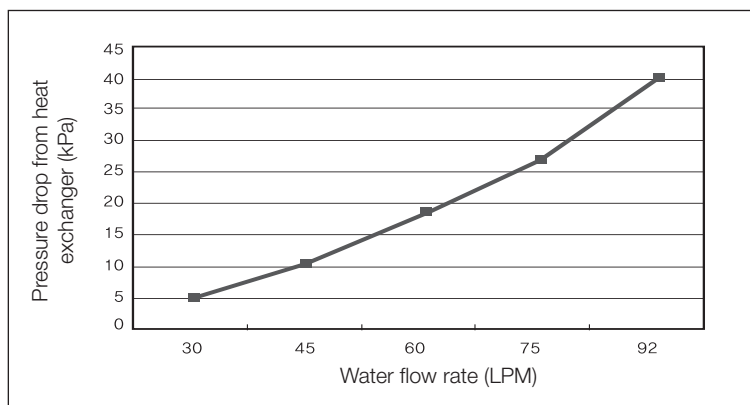


1-9. Hydraulic performance

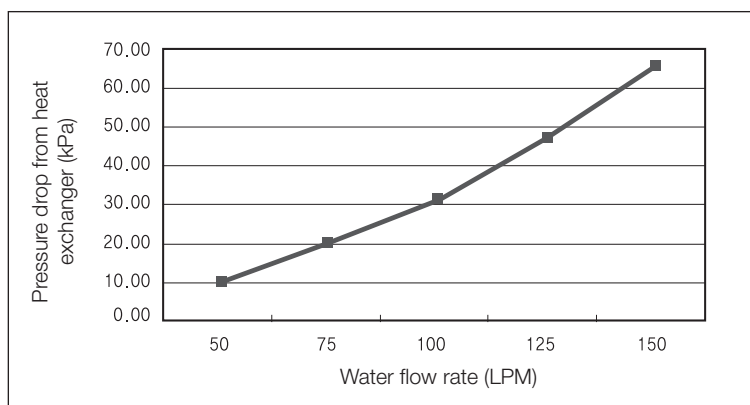
1) AM160FNBDEH***



2) AM320FNBDEH***



3) AM500FNBDEH***





2 Hydro unit HT

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2.8. Hydraulic performance	183

2 Hydro unit HT

2-1. Specifications

1) Technical specifications

Model				AM160FNBFB***	AM160FNBFBG***	AM250FNBFB***	AM250FNBFBG***
Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50	3, 4, 380-415, 50	1, 2, 220-240, 50	3, 4, 380-415, 50
Mode			-	HP/HR	HP/HR	HP/HR	HP/HR
Performance	Capacity (Nominal)	Cooling *1)	kW	-	-	-	-
			Btu/h	-	-	-	-
		Heating *2)	kW	16.0	16.0	25.0	25.0
			Btu/h	54,600	54,600	85,300	85,300
Power	Power Input (Nominal)	Cooling *1)	W	-	-	-	-
		Heating *2)		3,100	3,100	5,000	5,000
	Current Input (Nominal)	Cooling *1)	A	-	-	-	-
		Heating *2)		14.3	4.85	23.1	7.85
	MCA (Including External Contact)			24.15	12.88	32.15	12.88
	MFA		A	30.19	16.1	40.19	16.1
Compressor	Type		-	Rotary	Rotary	Rotary	Rotary
	Output		kW × n	-	-	-	-
	Model Name		-	UX5T250FNBEX	UX5T250FNBEX	UX5T250FNBEX	UX5T250FNBEX
	Oil	Type	-	POE	POE	POE	POE
Initial Charge		cc	1,700	1,700	1,700	1,700	
Heat Exchanger	Type		-	PHE	PHE	PHE	PHE
	Quantity		-	2	2	2	2
	Pipe Size		Ø, inch	PT 1 (25A)	PT 1 (25A)	PT 1 (25A)	PT 1 (25A)
	Water Flow Rate		LPM	23	23	36	36
	Flow Switch		LPM	12	12	12	12
Option Code			-	01104C-105000-20A0A0-332200	01104C-105000-20A0A0-332200	01104C-105000-20FAFA-332100	01104C-105000-20FAFA-332100
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"	
Drain Pipe		Ø, mm	-	-	-	-	
Field Wiring	Power Source Wire (L<10m, Single Installation)		mm2	4.0	2.5	4.0	2.5
	Transmission Cable		mm2	0.75 ~ 1.5	0.75 ~ 1.5	0.75 ~ 1.5	0.75 ~ 1.5
Refrigerant	Type		-	R-134a	R-134a	R-134a	R-134a
	Control Method		-	EEV	EEV	EEV	EEV
Sound	Sound Pressure *3)		dB(A)	42	42	42	42
	Sound Power			-	-	-	-
Dimensions	Net Weight		kg	104.00	104.00	104.00	104.00
	Shipping Weight		kg	107	107	107	107
	Net Dimensions (W×H×D)		mm	518 x 1,210 x 330	518 x 1,210 x 330	518 x 1,210 x 330	518 x 1,210 x 330
	Shipping Dimensions (W×H×D)		mm	652 x 1,289 x 426	652 x 1,289 x 426	652 x 1,289 x 426	652 x 1,289 x 426
Operating Temp. Range	Ambient	Cooling	°C	-	-	-	-
		Heating	°C	-20 ~ 24	-20 ~ 24	-20 ~ 24	-20 ~ 24
		Hot Water (Main Cooling, HR)	°C	-20.0 ~ 35.0 (-5.0 ~ 43.0)	-20.0 ~ 35.0 (-5.0 ~ 43.0)	-20.0 ~ 35.0 (-5.0 ~ 43.0)	-20.0 ~ 35.0 (-5.0 ~ 43.0)
	Leaving Water	Cooling	°C	-	-	-	-
		Heating	°C	25.0 ~ 80.0	25.0 ~ 80.0	25.0 ~ 80.0	25.0 ~ 80.0

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

*1) Nominal cooling capacities are based on;
 - Water temperature : 23°C inlet, 18°C outlet
 - Indoor temperature : 27°C DB, 19°C WB
 - Outdoor temperature : 35°C DB, 24°C WB

*2) Nominal heating capacities are based on;
 - Water temperature : 55°C inlet, 65°C outlet
 - Indoor temperature : 20°C DB
 - Outdoor temperature : 7°C DB, 6°C WB

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

*4) These products contain R410A which is fluorinated greenhouse gas.

2-2. Capacity tables

1) Heating

HC : Heating Capacity(W), PI : Power Input(W)

LW : Leaving Water temperature, EW : Entering Water temperature

Model	Ta [°C DB]	LW[°C]		LW[°C]		LW[°C]		LW[°C]	
		45		55		65		75	
		HC	PI	HC	PI	HC	PI	HC	PI
160	-20	15,000	2,062	15,000	2,017	15,000	2,523	14,000	3,193
	-17	15,000	2,083	15,000	1,952	15,000	2,357	14,500	3,063
	-15	15,500	2,313	15,500	2,007	15,500	2,435	15,000	2,895
	-7	15,500	2,305	16,000	2,185	16,000	2,598	15,500	2,956
	-3	16,000	2,352	16,000	2,380	16,000	2,560	16,000	3,087
	1	16,000	2,146	16,000	2,363	16,000	2,501	16,000	3,052
	3	16,000	2,041	16,000	2,314	16,000	2,453	16,000	2,963
	7	16,000	1,868	16,000	2,281	16,000	2,419	16,000	2,828
	11	16,000	1,850	16,000	2,279	16,000	2,428	16,000	2,763
250	15	16,000	1,806	16,000	2,259	16,000	2,474	16,000	2,734
	-20	23,000	4,460	23,000	4,734	22,000	5,017	21,500	5,424
	-17	23,500	4,333	23,500	4,563	23,500	4,802	22,500	5,159
	-15	24,000	4,287	24,500	4,456	24,500	4,670	23,500	4,996
	-7	24,500	3,878	25,000	4,084	25,000	4,235	24,000	4,442
	-3	25,000	3,736	25,000	3,933	25,000	4,073	24,500	4,226
	1	25,000	3,616	25,000	3,803	25,000	3,948	25,000	4,051
	3	25,000	3,565	25,000	3,747	25,000	3,900	25,000	3,979
	7	25,000	3,443	25,000	3,652	25,000	3,831	25,000	3,865
	11	25,000	3,417	25,000	3,580	25,000	3,799	25,000	3,791
	15	25,000	3,400	25,000	3,530	25,000	3,798	25,000	3,758

EW = 40°C
ΔT = 5°C

EW = 45°C
ΔT = 10°C

EW = 55°C
ΔT = 10°C

EW = 65°C
ΔT = 10°C

Conditions

- ΔT = Leaving Water temperature - Entering Water temperature
- No pump power input is included.
- Equivalent piping length = 7.5m
- Ta < 0 °C : RH=75%, Ta > 0 °C : RH=85%

2 Hydro Unit HT

2) Capacity calculation method

How to calculate heating capacity and power input : Combination of outdoor unit and hydro unit HT

- Heating capacity and power input of hydro unit HT : refer to the indoor unit capacity table.
- Power input of outdoor unit : refer to the outdoor unit capacity table (indoor 20°C DB).

Example

- Standard condition: Outdoor 7°C DB/6°C WB, Indoor 20°C DB
- Water condition: EW 55°C, LW 65°C

8HP DVM S TDB Heat Capacity Table

combination, % (Capacity index)	Outdoor Temperature(°C)		Indoor Temperature (°C,DB)	
			20.0 °C	
	DB	WB	TC kW	PI kW
100%	-20	-21	19.8	7.80
	-17	-18	20.9	7.96
	-15	-16	22.0	8.04
	-12	-13	22.9	7.92
	-10	-11	23.9	7.68
	-7	-8	24.4	7.21
	-5	-6	25.2	6.84
	-3	-4	25.2	6.21
	0	-1	25.2	5.84
	3	2	25.2	5.52
	5	4	25.2	5.23
	7	6	25.2	5.10
	9	8	25.2	4.85
	11	10	25.2	4.63
	13	12	25.2	4.42
	15	14	25.2	4.27

Combination 1 (Outdoor Unit 8HP + Indoor Unit 8HP)

Indoor Heat Capa.[kW]	25	= HT Capacity Table
PI Indoor Unit(8HP)[kW]	3.831	= HT Capacity Table
PI Outdoor Unit(8HP)[kW]	5.10	
PI System[kW]	8.93	=Indoor Unit PI + Outdoor Unit PI

Outdoor Unit Capacity Table

10HP DVM S TDB Heat Capacity Table

combination, % (Capacity index)	Outdoor Temperature(°C)		Indoor Temperature (°C,DB)	
			20.0 °C	
	DB	WB	TC kW	PI kW
100%	-20	-21	26.5	10.24
	-17	-18	28.1	10.45
	-15	-16	29.1	10.67
	-12	-13	29.7	10.62
	-10	-11	30.7	10.40
	-7	-8	31.2	9.57
	-5	-6	31.5	8.99
	-3	-4	31.5	8.15
	0	-1	31.5	7.68
	3	2	31.5	7.25
	5	4	31.5	6.88
	7	6	31.5	6.70
	9	8	31.5	6.38
	11	10	31.5	6.08
	13	12	31.5	5.81
	15	14	31.5	5.61

Combination 1 (Outdoor Unit 10HP + Indoor Unit 5HP x 2ea)

Indoor Heat Capa.[kW]	16	= HT Capacity Table
Indoor Heat Capa.[kW]	32	= 2 x 5HP
PI Indoor Unit(5HP)[kW]	2.419	= HT Capacity Table
PI Total Indoor Unit[kW]	4.838	= 2 x 5HP
PI Outdoor Unit(10HP)[kW]	6.70	
PI System[kW]	11.54	= Total Indoor Unit PI + Outdoor Unit PI

Outdoor Unit Capacity Table

Flowrate Information

Flowrate[l/min]	**160**	**250**
ΔT = 15°C	15.4	24.1
ΔT = 10°C	23.0	36.0
ΔT = 5°C	46.0	72.0

2 Hydro Unit HT

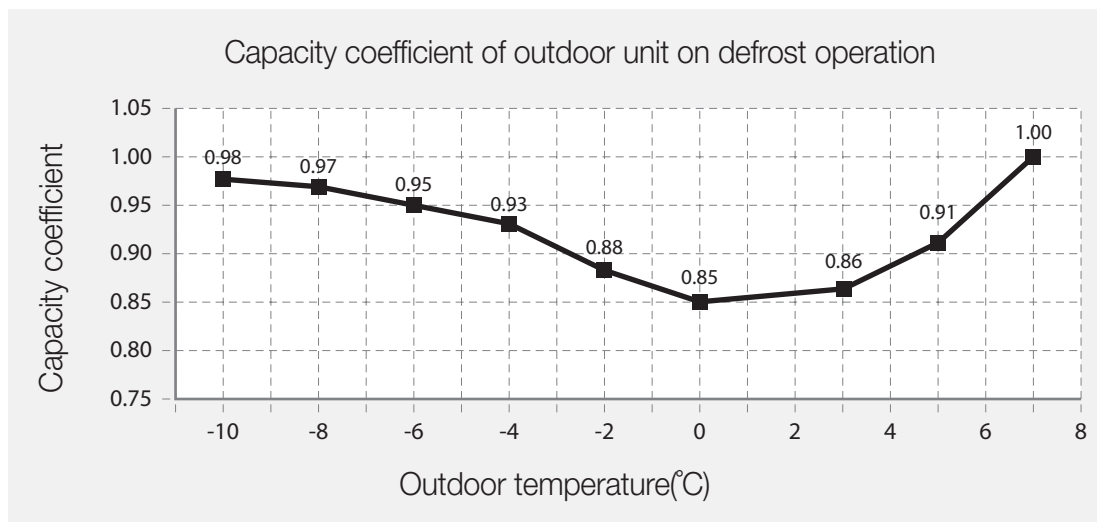
How to calculate heating capacity and power input : Integrated value

1. Defrosting correction factor (Outdoor unit)

- On heating operation, frost can be formed on heat exchanger according to outdoor temperature. (Frost on heat exchanger results in decreasing the performance.)
To remove frost on heat exchanger of outdoor unit, defrost operation is carried out periodically.
During defrost operation, capacity of outdoor unit may decrease.
The decrement is not considered to the individual capacity tables.

Outdoor temperature (°C, DB)	-10	-8	-6	-4	-2	0	3	5	7
Capacity coefficient	0.98	0.97	0.95	0.93	0.88	0.85	0.86	0.91	1

$$\text{Corrected Heating Capacity} = \text{heating capacity} \times \text{Capacity coefficient}$$



2. Power input of hydro unit HT during defrost operation

	Power Input (W)
HT 5HP	1050
HT 8HP	1500

3. Capacity correction factor of hydro unit HT during defrost operation

	HT Capa Correction Factor
HT 5HP	0.3
HT 8HP	

Example) Combination: 10HP DVM S + 5HP HT X 2ea, Outdoor 5°C DB, EW/LW=55°C/65°C

1) Defrosting correction factor (Outdoor unit, 5°C) = 0.91

2) Capacity correction factor (Hydro unit HT) = 0.3

3) Integrated capacity correction factor = $0.91 - (1 - 0.91) \times 0.3 = 0.883$

4) HC = $0.883 \times 16,000\text{W} \times 2\text{ea} = 28.3\text{kW}$

5) Power input (Outdoor unit) = 6.88kW

6) Power input (Hydro unit HT) = $\{ 0.91 \times (2,453\text{W} + 2,419\text{W}) / 2 + (1 - 0.91) \times 1,050\text{W} \} \times 2 = 4.62\text{kW}$

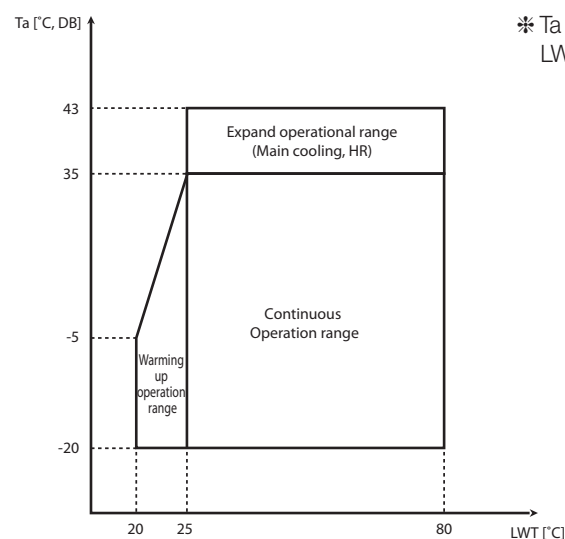
7) Total PI = $6.88 + 4.62 = 11.5\text{kW}$

10HP DVM S TDB Heat Capacity Table

combination, % (Capacity index)	Outdoor Temperature(°C)		Indoor Temperature (°C,DB)	
			20.0 °C	
	DB	WB	TC kW	PI kW
100%	-20	-21	26.5	10.24
	-17	-18	28.1	10.45
	-15	-16	29.1	10.67
	-12	-13	29.7	10.62
	-10	-11	30.7	10.40
	-7	-8	31.2	9.57
	-5	-6	31.5	8.99
	-3	-4	31.5	8.15
	0	-1	31.5	7.68
	3	2	31.5	7.25
	5	4	31.5	6.88
	7	6	31.5	6.70
	9	8	31.5	6.38
	11	10	31.5	6.08
	13	12	31.5	5.81
	15	14	31.5	5.61

2-3. Operation range

1) Heating

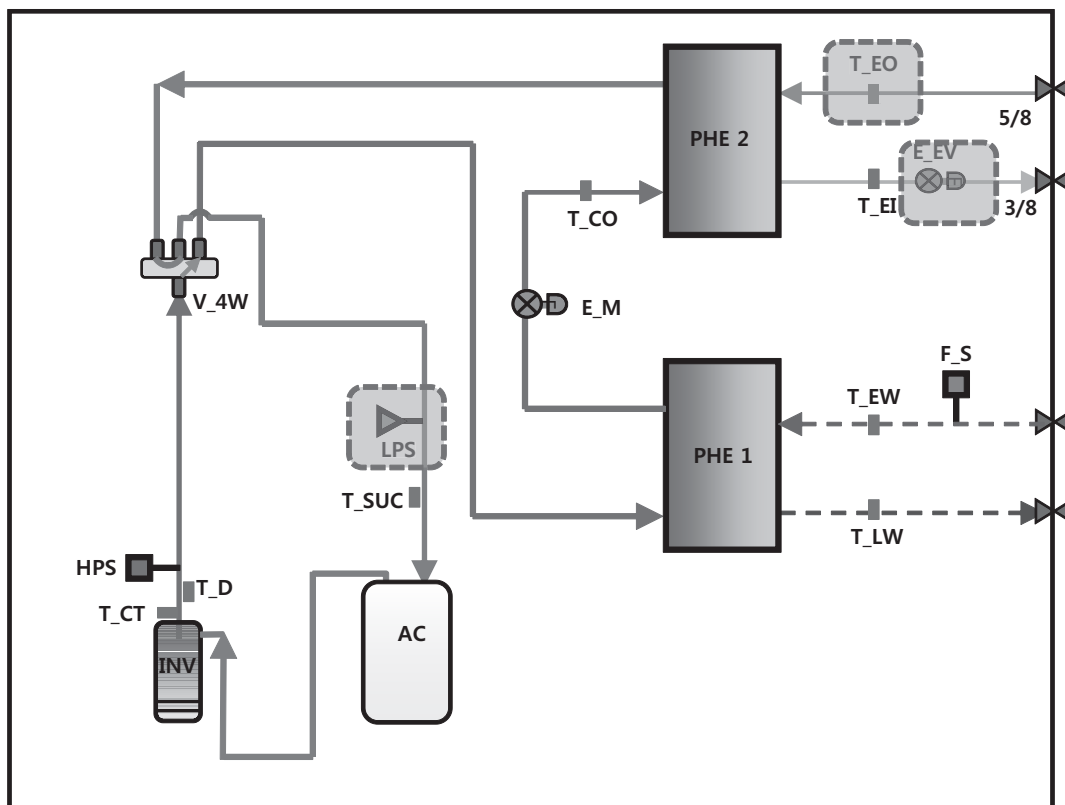


* Ta : Ambient temperature

LWT : Leaving water temperature

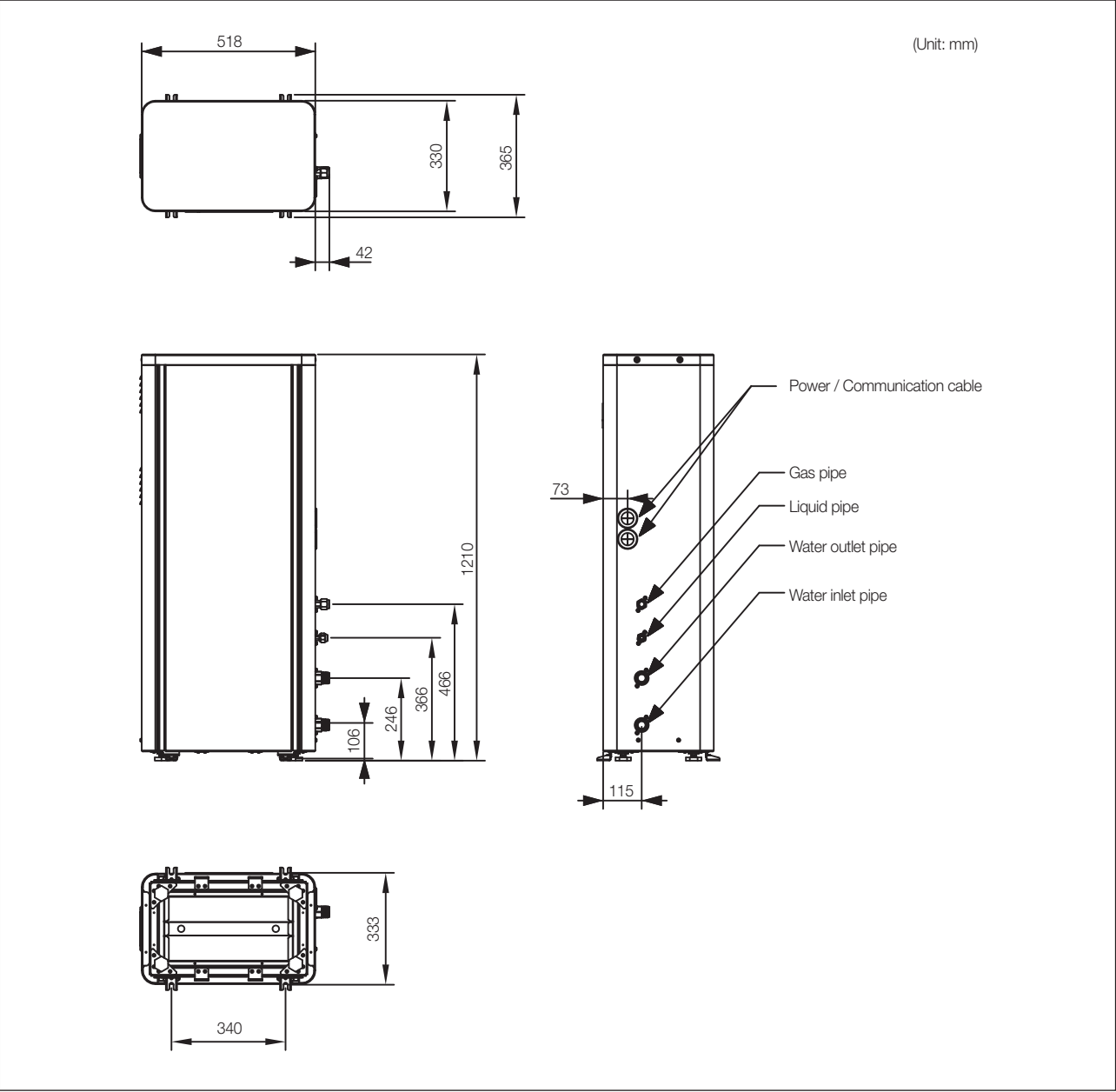
2 Hydro Unit HT

2-4. Cycle diagram



Symbol	Name
INV	Inverter Compressor
PHE1	Plate Heat Exchanger(R134a/water)
PHE2	Plate Heat Exchanger(R134a/R410a)
AC	Accumulator
HPS	High Pressure Sensor
LPS	Low Pressure Sensor
E_M	Main EEV (R134a)
E_EV	EVI EEV (R410a)
V_4W	4Way Valve
T_D	Discharge Temp. Sensor
T_CO	Cond Out Temp. Sensor
T_EI	EVI In Temp. Sensor (R410a)
T_EO	EVI Out Temp. Sensor (R410a)
T_CT	Comp. Top Temp. Sensor
T_SUC	Suction Temp. Sensor
T_EW	Entering Water Temp. Sensor
T_LW	Leaving Water Temp. Sensor
F_S	Flow Switch

2-5. Dimensional drawing

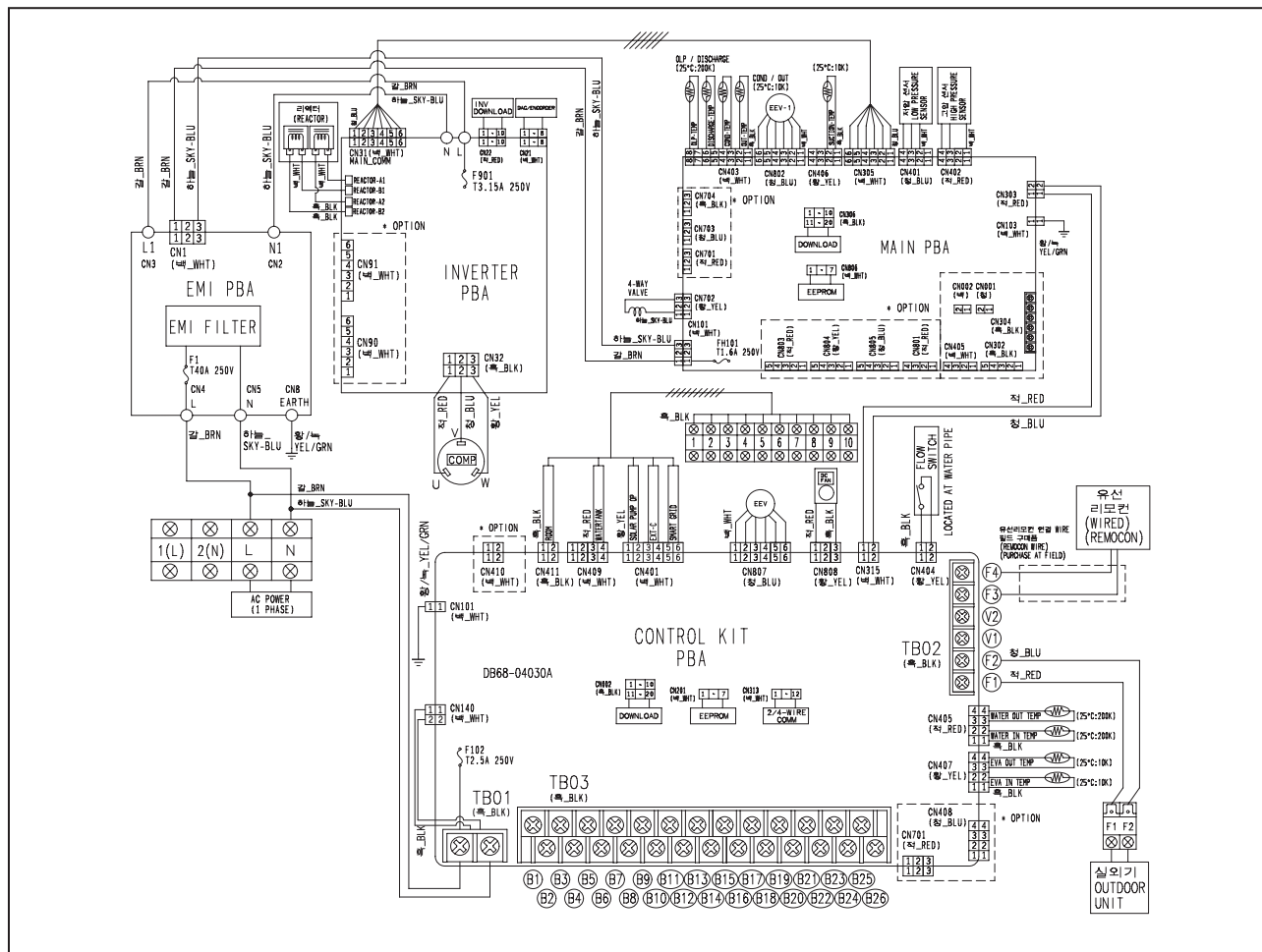


Model of the Hydro unit		AM***FNBF*B
Refrigerant side	Liquid side connection part	3/8" (ø9.52)
	Gas side connection part	5/8" (ø15.88)
Water side connection part		PT 1(25A)

2 Hydro Unit HT

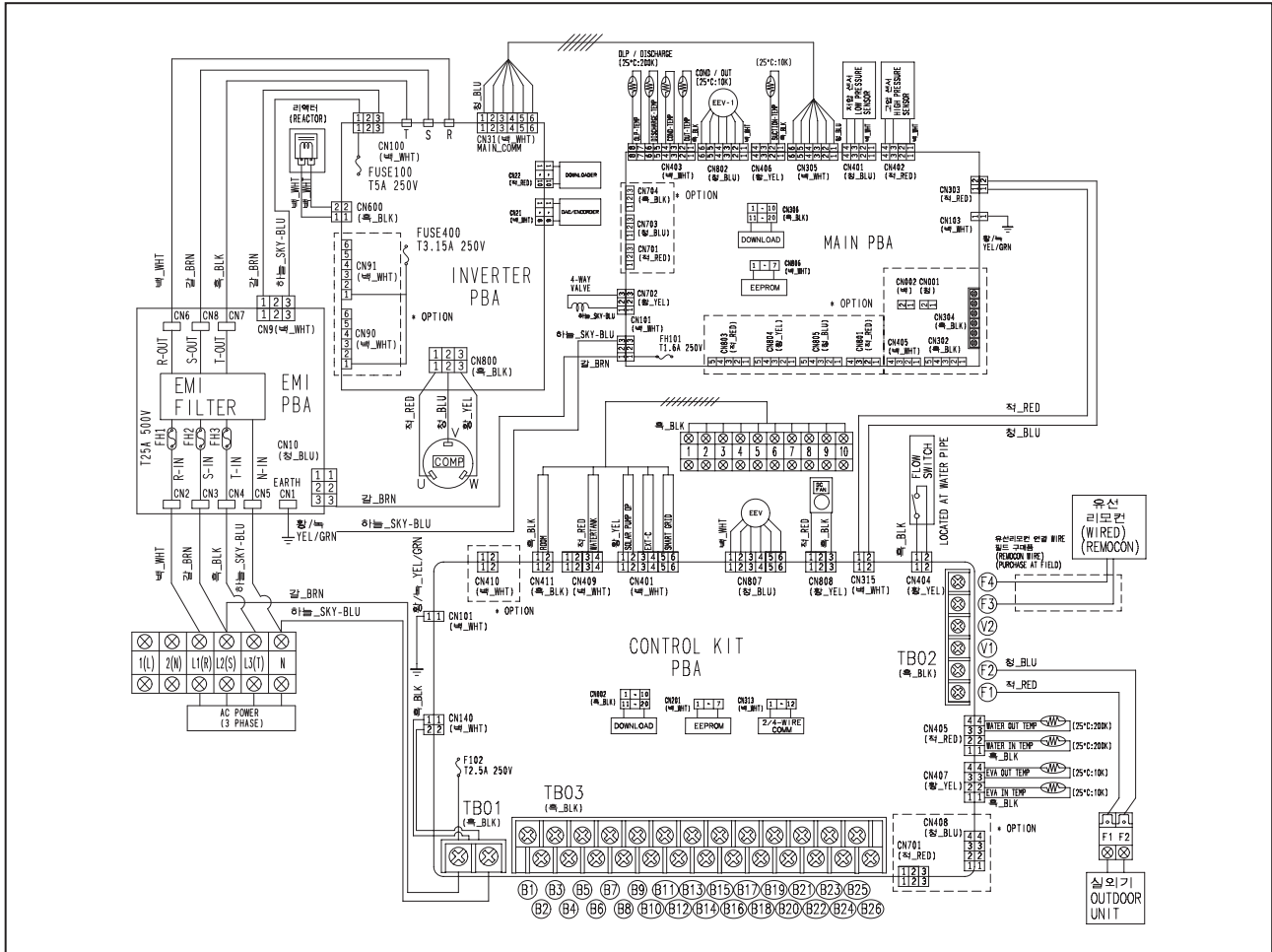
2-6. Electrical wiring diagram

1) AM***FNBFE***



Terminal No.	External contact	Operation status/inspection checklist	Remarks
B1-B2	OPERATION CHECK	Check on/off status for operation lamp of the control panel on the site	Optional
B3-B4	ALARM	Check on/off status for alarm lamp of the panel on the site	Optional
B5-B6	MAIN PUMP	Check the status of the pump operation signal and on/off status of operation at the control panel on the site	Mandatory
B7-B8	HEATER	Check the status of the heater operation signal output at the control panel on the site	Optional
B9-B10-B11	3WAY 1 V/V	Check the status of signal output and on/off status of valve operation (Direction switch of the indoor hot water tank)	Optional
B12-B13-B14	3WAY 2 V/V	Check the status of signal output and on/off status of valve operation (Interlocked with solar energy pump signal)	Optional
B15-B16-B17	2WAY V/V	Check the status of signal output or operation status of the valve	Optional
B19-B20	AC230, THERMOSTAT 1	Check the connection status of the thermostat and operation status of the product (cooling)	Optional
B21-B22	AC230, THERMOSTAT 2	Check the connection status of the thermostat and operation status of the product (heating)	Optional
B23-B24	AC24, THERMOSTAT 1	Check the connection status of the thermostat and operation status of the product (cooling)	Optional
B25-B26	AC24, THERMOSTAT 2	Check the connection status of the thermostat and operation status of the product (heating)	Optional
1-2	ROOM TEMP	Check the temperature display on the wired remote controller after separately installing the indoor temperature sensor (Refer to option setting of the wired remote controller)	Optional
3-4	WATER TANK TEMP	Check the temperature display on the wired remote controller after installing the 4~20 mA temperature sensor	(hot water supply)
5-6	SOLAR PUMP	Check the solar pump contact signal input and status of the operation	Optional
7-8	EXT. CONTROL	Check the contact signal input and status of the operation	Optional
9-10	SMART GRID	Check the Smart Grid contact input and the signal	Optional

2) AM***FNBFGB***

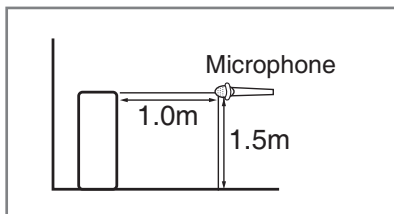


Terminal No.	External contact	Operation status/inspection checklist	Remarks
B1-B2	OPERATION CHECK	Check on/off status for operation lamp of the control panel on the site	Optional
B3-B4	ALARM	Check on/off status for alarm lamp of the panel on the site	Optional
B5-B6	MAIN PUMP	Check the status of the pump operation signal and on/off status of operation at the control panel on the site	Mandatory
B7-B8	HEATER	Check the status of the heater operation signal output at the control panel on the site	Optional
B9-B10-B11	3WAY 1 V/V	Check the status of signal output and on/off status of valve operation (Direction switch of the indoor hot water tank)	Optional
B12-B13-B14	3WAY 2 V/V	Check the status of signal output and on/off status of valve operation (Interlocked with solar energy pump signal)	Optional
B15-B16-B17	2WAY V/V	Check the status of signal output or operation status of the valve	Optional
B19-B20	AC230, THERMOSTAT 1	Check the connection status of the thermostat and operation status of the product (cooling)	Optional
B21-B22	AC230, THERMOSTAT 2	Check the connection status of the thermostat and operation status of the product (heating)	Optional
B23-B24	AC24, THERMOSTAT 1	Check the connection status of the thermostat and operation status of the product (cooling)	Optional
B25-B26	AC24, THERMOSTAT 2	Check the connection status of the thermostat and operation status of the product (heating)	Optional
1-2	ROOM TEMP	Check the temperature display on the wired remote controller after separately installing the indoor temperature sensor (Refer to option setting of the wired remote controller)	Optional
3-4	WATER TANK TEMP	Check the temperature display on the wired remote controller after installing the 4~20 mA temperature sensor	(hot water supply)
5-6	SOLAR PUMP	Check the solar pump contact signal input and status of the operation	Optional
7-8	EXT. CONTROL	Check the contact signal input and status of the operation	Optional
9-10	SMART GRID	Check the Smart Grid contact input and the signal	Optional

2 Hydro Unit HT

2-7. Sound pressure level

1) Operation Sound Level



Unit : dB(A)

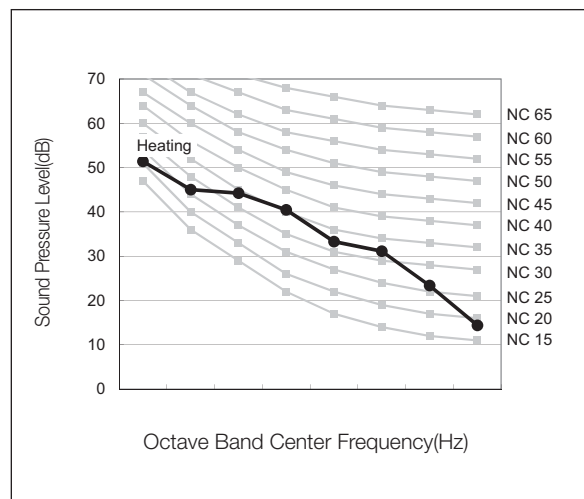
Model	Heating
AM160FNBFEB***	42
AM160FNBFGB***	42
AM250FNBFEB***	42
AM250FNBFGB***	42

✓ Note

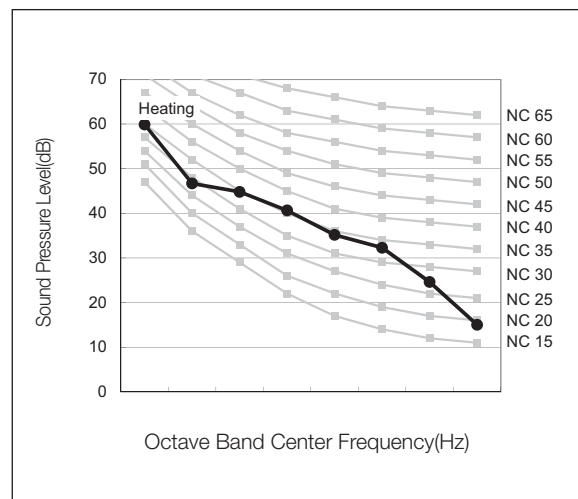
- ◆ These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- ◆ Operation sound level may differ depending on operation and ambient conditions.

2) NC curves

(1) AM160FNBF*B

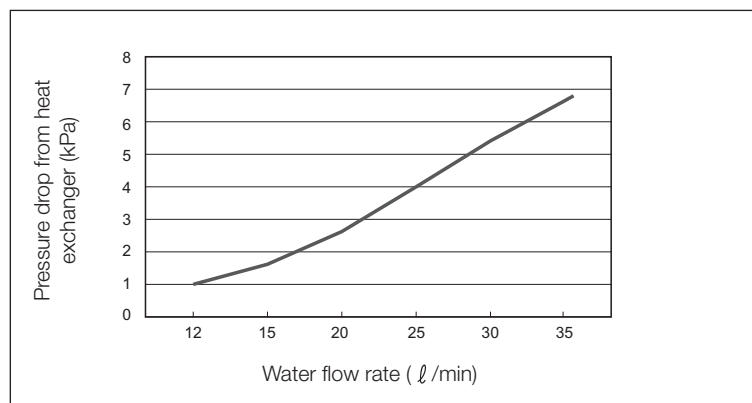


(2) AM250FNBF*B



2-8. Hydraulic performance

1) AM***FNBF**



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