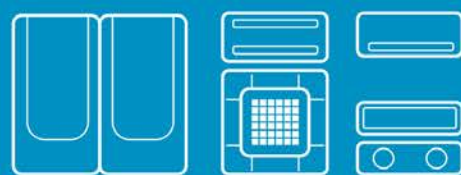


VRF

Technical Data Book

All Indoor Units for Europe



History

Version	Modification	Date	Remark
Ver.1.0	Release DVM S Indoor TDB (Europe)	15.08.31	-
Ver.1.1	Updated heating operation range : HE, HT	15.10.08	-
Ver.1.2	Modify Electrical wiring diagram of Hydro HE	15.10.16	-
Ver.1.3	Add page index	15.10.16	-
Ver.1.4	Modify Capacity & Power input correction of Hydro HE	15.11.23	-
Ver.1.5	Modify unit of air flow rate in ERV Plus	16.01.18	-
Ver.1.6	Modification for 'power input' of 1Way Cassette (p.11) - AM022FN1DEH*** : 50 → 40W Modification for 'Dimensional drawing' of Floor Standing (p.223) - AM***FNFDEH*** : Air inlet grille ↔ Air outlet louver	16.07.27	-

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II. Indoor Units

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I. Products

1 Nomenclature

Indoor Units

Model Names

AM	017	H	N	1	D	E	H	/	EU
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)		Buyer

(1) Classification

AM	VRF
----	-----

(2) Capacity

x 1/10 HP (3 digits)

(3) Version

F	2013
H	2014
J	2015

(4) Product Type

N	Indoor Unit(NASA)
X	Outdoor Unit(NASA)

(5) Product Notation

1	1Way Cassette
2	2Way Cassette
4	4Way Cassette S
N	4Way Cassette S(600x600)
L	LSP Duct
M	MSP Duct
H	HSP Duct
T	Neo Forte
Q	Neo Forte(EEV)
C	Ceiling
J	Console
F	Floor Standing
K	ERV Plus
B	Hydro Unit

(6) Feature

F	Flagship
P	Premium
D	Deluxe
S	Standard

(7) Rating Voltage

E	220~240V, 50Hz, 1Φ
K	220~240V, 50/60Hz, 1Φ
G	380~415V, 50Hz, 3Φ

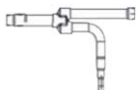
(8) Mode

B	Heat Pump (R134A)
H	Heat Pump (R410A)

2 Accessory

Classification	Product	Image	Model	Remark
Integrated Management System	DMS 2.0		MIM-D00AN	-
	S-NET 3		MST-P3P	-
	PIM		MIM-B16N	-
Building Management System	BACnet Gateway		MIM-B17N	-
	LonWorks Gateway		MIM-B18N	-
Centralized Control System	On/Off controller		MCM-A202DN	-
	Touch controller		MCM-A300N	-
Individual Control System	Wireless remote controller		MR-EH00	-
	Wired remote controller		MWR-WE10N (Multi function)	A/C+VTL
			MWR-WW00N	DVM S Hydro Unit
	Simplified wired remote controller		MWR-SH00N	-
			MWR-VH02	ERV
Others	Operation mode selection switch		MCM-C200	DVM S Series (Except HR Models)
	External room sensor		MRW-TA	Cassette, Wall-mount, Ceiling, Duct, Console
	Compatible interface module		MIM-N01	Nasa-No Nasa
	ERV interface module		MIM-N10	ERV (Nasa)
	External contact interface module		MIM-B14	-
	S-Converter		MIM-C02N	-
	MTFC (Multi tenant function controller)		MCM-C210N	-
	Wireless signal receiver		MRK-A10N	-

2 Accessory

Product	Image	Model	Remark
Y-Joint		MXJ-YA1509M	15.0 kW and below
		MXJ-YA2512M	Over 15.0 kW~40.0 kW and below
		MXJ-YA2812M	Over 40.0 kW~45.0 kW and below
		MXJ-YA2815M	Over 45.0 kW~70.3 kW and below
		MXJ-YA3419M	Over 70.3 kW~98.4 kW and below
		MXJ-YA4119M	Over 98.4 kW~135.2 kW and below
		MXJ-YA4422M	Over 135.2 kW
Y-Joint (Only H/R)		MXJ-YA1500M	22.4 kW and below
		MXJ-YA2500M	Over 22.4 kW~70.3 kW and below
		MXJ-YA3100M	Over 70.3 kW~135.2 kW and below
		MXJ-YA3800M	Over 135.2 kW
Y-Joint Outdoor unit		MXJ-TA3419M	135.2 kW and below
		MXJ-TA4122M	140.2 kW and Over
Y-Joint (Only H/R) Outdoor unit		MXJ-TA3100M	135.2 kW and below
		MXJ-TA3800M	140.2 kW and Over
Distribution Header		MXJ-HA2512M	45.0 kW and below (for 4 rooms)
		MXJ-HA3115M	70.3 kW and below (for 8 rooms)
		MXJ-HA3819M	Over 70.3 kW~135.2 kW and below(for 8 rooms)
MCU		MCU-S6NEE1N	~56kW, ~6 indoor units
		MCU-S4NEE1N	~56kW, ~4 indoor units
		MCU-S4NEE2N	56kW, ~2 indoor units(each indoor unit for 11.2kW~28kW)
EEV KIT		MEV-E24SA	1 Indoor
		MEV-E32SA	
		MXD-E24K132A	2 Indoor
		MXD-E24K200A	
		MXD-E32K200A	
		MXD-E24K232A	3 Indoor
		MXD-E24K300A	
		MXD-E32K224A	
		MXD-E32K300A	
AHU KIT		MXD-K025AN	7.0kW~8.75kW
		MXD-K050AN	14.0kW~17.5kW
		MXD-K075AN	21.0kW~26.25kW
		MXD-K100AN	28.0kW~35.0kW
		MCM-D201N	28kW~35kW / 56kW~70kW / 84kW~105kW / 112kW~140kW

2 Accessory

Product	Image	Model	Remark
PDM KIT		MXD-A38K2A	8~12HP
		MXD-A12K2A	14~16HP
		MXD-A58K2A	18~26HP
S-Plasma Ion KIT		MSD-CAN1	4Way Cassette S 4Way Cassette S(600x600)
		MSD-EAN1	ERV-Plus
Motion detect Sensor		MCR-SMA	4Way Cassette S (600x600)
ERV CO2 Sensor		MOS-C1	ERV, ERV PLUS
Drain Pump		MDP-N047SNC0D	OAP Duct (14.0 kW)
		MDP-N047SNC1D	HSP Duct (22.0 / 28.0 kW) OAP Duct (22.4 / 28.0 kW)
		MDP-M075SGU1D	MSP Duct (9.0 / 11.2 kW)
		MDP-M075SGU2D	MSP Duct (12.8 / 14.0 kW) HSP Duct (11.2 / 12.8 / 14.0 kW)
		MDP-M075SGU3D	MSP Duct (5.6 / 7.1 kW)
		MDP-E075SEE3D	Slim Duct (2.0~14.0 kW)
		MDP-G075SP	Duct S (External, All Capacities)
		MDP-G075SQ	Duct S (Internal, 3.5 kW~14 kW)
Panel		PC1NUSMAN	Slim 1Way Cassette
		PC1NUPMAN	Slim 1Way Cassette (Z-sliding)
		PC1MWSKAN	1Way Cassette (1.7 kW, 2.2 kW)
		PC2NUSMEN	2Way cassette
		PC4SUSMAN	4Way Cassette S(600x600) (Waffle)
		PC4SUSMEN	4Way Cassette S(600x600) (Classic)
		PC4NUSKAN	4 Way cassette S (Waffle)
		PC4NUSKEN	4 Way cassette S (Classic)
		PC4NBSKAN	4 Way cassette S (Waffle, Black)

II. Indoor units

1Way Cassette

1 Specifications

2 Capacity table

3 Dimensional drawing

4 Electrical wiring diagram

5 Sound pressure level

6 Sound power level

1 Specifications

1Way Cassette

Type				1Way Cassette		1Way Cassette		1Way Cassette	
Model				AM017HN1DEH/EU		AM022FN1DEH/EU		AM022HN1DEH/EU	
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	1.70		2.20		2.20	
			Btu/h	5,800		7,500		7,500	
		Heating	kW	1.90		2.50		2.50	
			Btu/h	6,500		8,500		8,500	
Power	Power Input (Nominal)	Cooling	W	24.00		40.00		25.00	
		Heating		24.00		40.00		25.00	
	Current Input (Nominal)	Cooling	A	0.14		0.20		0.15	
		Heating		0.14		0.20		0.15	
Fan	Motor	Type	-	Crossflow Fan		Crossflow Fan		Crossflow Fan	
		Output x n	w	27 x 1		17 x 1		27 x 1	
	Air Flow Rate	H/M/L (UL)	CMM	4.80 / 4.30 / 4.10		6.00 / 5.00 / 4.00		5.10 / 4.60 / 4.30	
			l/s	80.00 / 71.67 / 68.33		100.00 / 83.33 / 66.67		85.00 / 76.67 / 71.67	
	External Pressure	Min/Std/Max	mmAq	-		-		-	
			Pa	-		-		-	
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	VP20 (OD 26,ID 20)		VP20 (OD 26,ID 20)		VP20 (OD 26,ID 20)	
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(O)		EEV(O)		EEV(O)	
Sound	Pressure	High / Mid / Low	dB(A)	27.0 / 24.0 / 21.0		27.0 / 25.0 / 23.0		27.0 / 25.0 / 23.0	
	Power	Cooling		43.0		45.0		46.0	
Dimension	Net Weight		kg	8.00		10.50		8.00	
	Shipping Weight		kg	10.80		13.00		10.80	
	Net Dimensions (WxHxD)		mm	740 x 135 x 360		970 x 135 x 410		740 x 135 x 360	
	Shipping Dimensions (WxHxD)		mm	895 x 223 x 435		1,164 x 212 x 478		895 x 223 x 435	
Panel Size	Panel model		-	PC1MWSKAN		PC1NUSMAN		PC1MWSKAN	
	Panel Net Weight		kg	2.60		3.00		2.60	
	Shipping Weight		kg	4.20		5.00		4.20	
	Net Dimensions (WxHxD)		mm	900 x 25 x 420		1,180 x 25 x 460		900 x 25 x 420	
	Shipping Dimensions (WxHxD)		mm	958 x 112 x 482		1,259 x 144 x 539		958 x 112 x 482	
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.

* Mode

- HP : Heat Pump, HR : Heat Recovery

* 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

* 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

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

* These products contain R410A which is fluorinated greenhouse gas.

1 Specifications

1Way Cassette

Type				1Way Cassette		1Way Cassette		
Model				AM028FN1DEH/EU		AM036FN1DEH/EU		
Power Supply			Ø, #, V, Hz		1,2,220-240,50		1,2,220-240,50	
Mode			-		HP/HR		HP/HR	
Performance	Capacity (Nominal)	Cooling	kW		2.80		3.60	
			Btu/h		9,600		12,300	
		Heating	kW		3.20		4.00	
			Btu/h		10,900		13,600	
Power	Power Input (Nominal)	Cooling	W	45.00		50.00		
		Heating		45.00		50.00		
	Current Input (Nominal)	Cooling	A	0.23		0.25		
		Heating		0.23		0.25		
Fan	Motor	Type	-	Crossflow Fan		Crossflow Fan		
		Output x n	w	17 x 1		17 x 1		
	Air Flow Rate	H/M/L (UL)	CMM	7.00 / 6.00 / 5.00		8.00 / 7.00 / 6.00		
			l/s	116.67 / 100.00 / 83.33		133.33 / 116.67 / 100.00		
	External Pressure	Min/Std/Max	mmAq	-		-		
			Pa	-		-		
Piping Connections	Liquid Pipe		Ø, mm	6.35		6.35		
			Ø, inch	1/4"		1/4"		
	Gas Pipe		Ø, mm	12.70		12.70		
			Ø, inch	1/2"		1/2"		
	Drain Pipe		Ø, mm	VP20 (OD 26,ID 20)		VP20 (OD 26,ID 20)		
Field Wiring	Power Source Wire		mm²	1.5 - 2.5		1.5 - 2.5		
	Transmission Cable		mm²	0.75 - 1.50		0.75 - 1.50		
Refrigerant	Type		-	R410A		R410A		
	Control Method		-	EEV(O)		EEV(O)		
Sound	Pressure	High / Mid / Low	dB(A)	29.0 / 27.0 / 24.0		35.0 / 31.0 / 27.0		
	Power	Cooling		48.0		52.0		
Dimension	Net Weight		kg	10.50		10.50		
	Shipping Weight		kg	13.00		13.00		
	Net Dimensions (WxHxD)		mm	970 x 135 x 410		970 x 135 x 410		
	Shipping Dimensions (WxHxD)		mm	1,164 x 212 x 478		1,164 x 212 x 478		
Panel Size	Panel model		-	PC1NUSMAN		PC1NUSMAN		
	Panel Net Weight		kg	3.00		3.00		
	Shipping Weight		kg	5.00		5.00		
	Net Dimensions (WxHxD)		mm	1,180 x 25 x 460		1,180 x 25 x 460		
	Shipping Dimensions (WxHxD)		mm	1,259 x 144 x 539		1,259 x 144 x 539		
Additional Accessories	Drain Pump	Drain Pump	- / Model	-		-		
		Max. lifting Height / Displacement	mm/liter/h	-		-		
	Air Filter		-	-		-		

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

* Mode

- HP : Heat Pump, HR : Heat Recovery

* 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

* 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

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

* These products contain R410A which is fluorinated greenhouse gas.

2 Capacity table

1Way Cassette

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity

Model	Outdoor temperature (°C, DB)	Indoor temperature (°C, WB)													
		14.0		16.0		18.0		19.0		20.0		22.0		24.0	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
1.70	10	1.20	1.00	1.40	1.10	1.60	1.20	1.70	1.20	1.80	1.20	1.90	1.20	2.00	1.10
	12	1.20	1.00	1.40	1.10	1.60	1.20	1.70	1.20	1.80	1.20	1.90	1.20	2.00	1.10
	14	1.20	1.00	1.40	1.10	1.60	1.20	1.70	1.20	1.80	1.20	1.90	1.20	2.00	1.10
	16	1.20	1.00	1.40	1.10	1.60	1.20	1.70	1.20	1.80	1.20	1.80	1.20	2.00	1.10
	18	1.20	1.00	1.40	1.10	1.60	1.20	1.70	1.20	1.80	1.20	1.80	1.20	2.00	1.10
	20	1.20	1.00	1.40	1.10	1.60	1.20	1.70	1.20	1.80	1.20	1.80	1.20	2.00	1.10
	21	1.20	1.00	1.40	1.10	1.60	1.20	1.70	1.20	1.80	1.20	1.80	1.20	2.00	1.10
	23	1.20	1.00	1.40	1.10	1.60	1.20	1.70	1.20	1.80	1.20	1.80	1.20	2.00	1.10
	25	1.20	1.00	1.40	1.10	1.60	1.20	1.70	1.20	1.80	1.20	1.80	1.20	2.00	1.10
	27	1.20	1.00	1.40	1.10	1.60	1.20	1.70	1.20	1.80	1.20	1.80	1.20	2.00	1.10
	29	1.20	1.00	1.40	1.10	1.60	1.20	1.70	1.20	1.80	1.20	1.80	1.20	2.00	1.10
	31	1.20	1.00	1.40	1.10	1.60	1.20	1.70	1.20	1.80	1.20	1.80	1.20	2.00	1.10
	33	1.20	1.00	1.40	1.10	1.60	1.20	1.70	1.20	1.80	1.20	1.80	1.20	2.00	1.10
	35	1.20	1.00	1.40	1.10	1.60	1.20	1.70	1.20	1.80	1.20	1.80	1.20	2.00	1.10
	37	1.20	1.00	1.40	1.10	1.60	1.20	1.70	1.20	1.80	1.20	1.80	1.20	2.00	1.10
	39	1.20	1.00	1.40	1.10	1.60	1.20	1.70	1.20	1.80	1.20	1.80	1.20	2.00	1.10
2.20(*FN*)	10	1.50	1.30	1.80	1.40	2.10	1.50	2.20	1.50	2.30	1.50	2.50	1.60	2.60	1.40
	12	1.50	1.30	1.80	1.40	2.10	1.50	2.20	1.50	2.30	1.50	2.50	1.60	2.60	1.40
	14	1.50	1.30	1.80	1.40	2.10	1.50	2.20	1.50	2.30	1.50	2.50	1.60	2.60	1.40
	16	1.50	1.30	1.80	1.40	2.10	1.50	2.20	1.50	2.30	1.50	2.40	1.50	2.60	1.40
	18	1.50	1.30	1.80	1.40	2.10	1.50	2.20	1.50	2.30	1.50	2.40	1.50	2.60	1.40
	20	1.50	1.30	1.80	1.40	2.10	1.50	2.20	1.50	2.30	1.50	2.40	1.50	2.60	1.40
	21	1.50	1.30	1.80	1.40	2.10	1.50	2.20	1.50	2.30	1.50	2.40	1.50	2.60	1.40
	23	1.50	1.30	1.80	1.40	2.10	1.50	2.20	1.50	2.30	1.50	2.40	1.50	2.60	1.40
	25	1.50	1.30	1.80	1.40	2.10	1.50	2.20	1.50	2.30	1.50	2.40	1.50	2.60	1.40
	27	1.50	1.30	1.80	1.40	2.10	1.50	2.20	1.50	2.30	1.50	2.40	1.50	2.60	1.40
	29	1.50	1.30	1.80	1.40	2.10	1.50	2.20	1.50	2.30	1.50	2.40	1.50	2.60	1.40
	31	1.50	1.30	1.80	1.40	2.10	1.50	2.20	1.50	2.30	1.50	2.40	1.50	2.60	1.40
	33	1.50	1.30	1.80	1.40	2.10	1.50	2.20	1.50	2.30	1.50	2.40	1.50	2.60	1.40
	35	1.50	1.30	1.80	1.40	2.10	1.50	2.20	1.50	2.30	1.50	2.40	1.50	2.60	1.40
	37	1.50	1.30	1.80	1.40	2.10	1.50	2.20	1.50	2.30	1.50	2.40	1.50	2.60	1.40
	39	1.50	1.30	1.80	1.40	2.10	1.50	2.20	1.50	2.30	1.50	2.40	1.50	2.50	1.30
2.20(*HN*)	10	1.50	1.30	1.80	1.40	2.10	1.50	2.20	1.50	2.30	1.50	2.50	1.60	2.60	1.40
	12	1.50	1.30	1.80	1.40	2.10	1.50	2.20	1.50	2.30	1.50	2.50	1.60	2.60	1.40
	14	1.50	1.30	1.80	1.40	2.10	1.50	2.20	1.50	2.30	1.50	2.50	1.60	2.60	1.40
	16	1.50	1.30	1.80	1.40	2.10	1.50	2.20	1.50	2.30	1.50	2.40	1.50	2.60	1.40
	18	1.50	1.30	1.80	1.40	2.10	1.50	2.20	1.50	2.30	1.50	2.40	1.50	2.60	1.40
	20	1.50	1.30	1.80	1.40	2.10	1.50	2.20	1.50	2.30	1.50	2.40	1.50	2.60	1.40
	21	1.50	1.30	1.80	1.40	2.10	1.50	2.20	1.50	2.30	1.50	2.40	1.50	2.60	1.40
	23	1.50	1.30	1.80	1.40	2.10	1.50	2.20	1.50	2.30	1.50	2.40	1.50	2.60	1.40
	25	1.50	1.30	1.80	1.40	2.10	1.50	2.20	1.50	2.30	1.50	2.40	1.50	2.60	1.40
	27	1.50	1.30	1.80	1.40	2.10	1.50	2.20	1.50	2.30	1.50	2.40	1.50	2.60	1.40
	29	1.50	1.30	1.80	1.40	2.10	1.50	2.20	1.50	2.30	1.50	2.40	1.50	2.60	1.40
	31	1.50	1.30	1.80	1.40	2.10	1.50	2.20	1.50	2.30	1.50	2.40	1.50	2.60	1.40
	33	1.50	1.30	1.80	1.40	2.10	1.50	2.20	1.50	2.30	1.50	2.40	1.50	2.60	1.40
	35	1.50	1.30	1.80	1.40	2.10	1.50	2.20	1.50	2.30	1.50	2.40	1.50	2.60	1.40
	37	1.50	1.30	1.80	1.40	2.10	1.50	2.20	1.50	2.30	1.50	2.40	1.50	2.60	1.40
	39	1.50	1.30	1.80	1.40	2.10	1.50	2.20	1.50	2.30	1.50	2.40	1.50	2.60	1.40
2.80	10	1.90	1.60	2.30	1.80	2.60	1.90	2.80	1.90	2.90	1.90	3.10	1.90	3.40	1.90
	12	1.90	1.60	2.30	1.80	2.60	1.90	2.80	1.90	2.90	1.90	3.10	1.90	3.30	1.80
	14	1.90	1.60	2.30	1.80	2.60	1.90	2.80	1.90	2.90	1.90	3.10	1.90	3.30	1.80
	16	1.90	1.60	2.30	1.80	2.60	1.90	2.80	1.90	2.90	1.90	3.10	1.90	3.30	1.80
	18	1.90	1.60	2.30	1.80	2.60	1.90	2.80	1.90	2.90	1.90	3.10	1.90	3.30	1.80
	20	1.90	1.60	2.30	1.80	2.60	1.90	2.80	1.90	2.90	1.90	3.10	1.90	3.30	1.80
	21	1.90	1.60	2.30	1.80	2.60	1.90	2.80	1.90	2.90	1.90	3.10	1.90	3.30	1.80
	23	1.90	1.60	2.30	1.80	2.60	1.90	2.80	1.90	2.90	1.90	3.10	1.90	3.30	1.80
	25	1.90	1.60	2.30	1.80	2.60	1.90	2.80	1.90	2.90	1.90	3.10	1.90	3.30	1.80
	27	1.90	1.60	2.30	1.80	2.60	1.90	2.80	1.90	2.90	1.90	3.10	1.90	3.30	1.80
	29	1.90	1.60	2.30	1.80	2.60	1.90	2.80	1.90	2.90	1.90	3.10	1.90	3.30	1.80
	31	1.90	1.60	2.30	1.80	2.60	1.90	2.80	1.90	2.90	1.90	3.10	1.90	3.30	1.80
	33	1.90	1.60	2.30	1.80	2.60	1.90	2.80	1.90	2.90	1.90	3.10	1.90	3.30	1.80
	35	1.90	1.60	2.30	1.80	2.60	1.90	2.80	1.90	2.90	1.90	3.10	1.90	3.30	1.80
	37	1.90	1.60	2.30	1.80	2.60	1.90	2.80	1.90	2.90	1.90	3.10	1.90	3.30	1.80
	39	1.90	1.60	2.30	1.80	2.60	1.90	2.80	1.90	2.90	1.90	3.00	1.80	3.20	1.70
3.60	10	2.50	2.20	2.90	2.40	3.40	2.40	3.60	2.60	3.70	2.60	4.00	2.60	4.30	2.50
	12	2.50	2.20	2.90	2.40	3.40	2.40	3.60	2.60	3.70	2.60	4.00	2.60	4.30	2.50
	14	2.50	2.20	2.90	2.40	3.40	2.40	3.60	2.60	3.70	2.60	4.00	2.60	4.30	2.50
	16	2.50	2.20	2.90	2.40	3.40	2.40	3.60	2.60	3.70	2.60	4.00	2.60	4.30	2.50
	18	2.50	2.20	2.90	2.40	3.40	2.40	3.60	2.60	3.70	2.60	4.00	2.60	4.30	2.50
	20	2.50	2.20	2.90	2.40	3.40	2.40	3.60	2.60	3.70	2.60	4.00	2.60	4.20	2.40
	21	2.50	2.20	2.90	2.40	3.40	2.40	3.60	2.60	3.70	2.60	4.00	2.60	4.20	2.40
	23	2.50	2.20	2.90	2.40	3.40	2.40	3.60	2.60	3.70	2.60	4.00	2.60	4.20	2.40
	25	2.50	2.20	2.90	2.40	3.40	2.40	3.60	2.60	3.70	2.60	4.00	2.60	4.20	2.40
	27	2.50	2.20	2.90	2.40	3.40	2.40	3.60	2.60	3.70	2.60	4.00	2.60	4.20	2.40
	29	2.50	2.20	2.90	2.40	3.40	2.40	3.60	2.60	3.70	2.60	4.00	2.60	4.20	2.40
	31	2.50	2.20	2.90	2.40	3.40	2.40	3.60	2.60	3.70	2.60	4.00	2.60	4.20	2.40
	33	2.50	2.20	2.90	2.40	3.40	2.40	3.60	2.60	3.70	2.60	4.00	2.60	4.20	2.40
	35	2.50	2.20	2.90	2.40	3.40	2.40	3.60	2.60	3.70	2.60	4.00	2.60	4.20	2.40
	37	2.50	2.20	2.90	2.40	3.40	2.40	3.60	2.60	3.70	2.60	3.90	2.50	4.20	2.40
	39	2.50	2.20	2.90	2.40	3.40	2.40	3.60	2.60	3.70	2.60	3.90	2.50	4.10	2.30

2 Capacity table

1Way Cassette

Heating

TC : Total Capacity

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
1.70	-20	-21	1.10	1.10	1.10	1.10	1.10
	-17	-18	1.20	1.20	1.20	1.20	1.20
	-15	-16	1.30	1.20	1.20	1.20	1.20
	-12	-13	1.40	1.40	1.40	1.40	1.30
	-10	-11	1.50	1.50	1.40	1.40	1.40
	-7	-8	1.70	1.70	1.70	1.50	1.50
	-5	-6	1.80	1.70	1.70	1.70	1.70
	-3	-4	1.90	1.90	1.80	1.70	1.70
	0	-1	2.00	1.90	1.90	1.70	1.70
	3	2	2.10	2.00	1.90	1.70	1.70
	5	4	2.10	2.10	1.90	1.70	1.70
	7	6	2.10	2.10	1.90	1.70	1.70
	9	8	2.30	2.10	1.90	1.70	1.70
	11	10	2.30	2.10	1.90	1.70	1.70
	13	12	2.30	2.10	1.90	1.70	1.70
2.20(*FN*)	-20	-21	1.50	1.50	1.50	1.50	1.50
	-17	-18	1.60	1.60	1.60	1.60	1.60
	-15	-16	1.70	1.60	1.60	1.60	1.60
	-12	-13	1.80	1.80	1.80	1.80	1.70
	-10	-11	2.00	2.00	1.90	1.90	1.90
	-7	-8	2.30	2.20	2.20	2.00	2.00
	-5	-6	2.40	2.30	2.30	2.20	2.20
	-3	-4	2.50	2.40	2.40	2.30	2.20
	0	-1	2.60	2.50	2.50	2.30	2.20
	3	2	2.70	2.60	2.50	2.30	2.20
	5	4	2.80	2.70	2.50	2.30	2.20
	7	6	2.80	2.70	2.50	2.30	2.20
	9	8	3.00	2.70	2.50	2.30	2.20
	11	10	3.00	2.70	2.50	2.30	2.20
	13	12	3.00	2.70	2.50	2.30	2.20
2.20(*HN*)	-20	-21	1.50	1.50	1.50	1.50	1.50
	-17	-18	1.60	1.60	1.60	1.60	1.60
	-15	-16	1.70	1.60	1.60	1.60	1.60
	-12	-13	1.80	1.80	1.80	1.80	1.70
	-10	-11	2.00	2.00	1.90	1.90	1.90
	-7	-8	2.30	2.20	2.20	2.00	2.00
	-5	-6	2.40	2.30	2.30	2.20	2.20
	-3	-4	2.50	2.40	2.40	2.30	2.20
	0	-1	2.60	2.50	2.50	2.30	2.20
	3	2	2.70	2.60	2.50	2.30	2.20
	5	4	2.80	2.70	2.50	2.30	2.20
	7	6	2.80	2.70	2.50	2.30	2.20
	9	8	3.00	2.70	2.50	2.30	2.20
	11	10	3.00	2.70	2.50	2.30	2.20
	13	12	3.00	2.70	2.50	2.30	2.20
2.80	-20	-21	1.90	1.90	1.90	1.90	1.90
	-17	-18	2.00	2.00	2.00	2.00	1.90
	-15	-16	2.10	2.10	2.00	2.00	1.90
	-12	-13	2.20	2.20	2.20	2.10	2.10
	-10	-11	2.30	2.30	2.30	2.30	2.20
	-7	-8	2.50	2.40	2.40	2.40	2.30
	-5	-6	2.60	2.60	2.50	2.50	2.40
	-3	-4	2.80	2.70	2.70	2.60	2.50
	0	-1	2.90	2.80	2.80	2.70	2.60
	3	2	3.00	3.00	2.90	2.80	2.70
	5	4	3.20	3.10	3.10	2.90	2.70
	7	6	3.30	3.20	3.20	3.00	2.70
	9	8	3.40	3.30	3.20	3.00	2.70
	11	10	3.50	3.30	3.20	3.00	2.70
	13	12	3.60	3.40	3.20	3.00	2.70
3.60	-20	-21	2.40	2.40	2.30	2.30	2.30
	-17	-18	2.60	2.50	2.40	2.40	2.30
	-15	-16	2.70	2.60	2.50	2.50	2.40
	-12	-13	2.80	2.70	2.70	2.60	2.60
	-10	-11	2.90	2.90	2.90	2.80	2.80
	-7	-8	3.10	3.10	3.00	3.00	2.90
	-5	-6	3.30	3.20	3.20	3.10	3.00
	-3	-4	3.40	3.40	3.30	3.20	3.10
	0	-1	3.60	3.60	3.50	3.40	3.20
	3	2	3.80	3.70	3.70	3.50	3.40
	5	4	3.90	3.90	3.80	3.60	3.40
	7	6	4.10	4.10	4.00	3.70	3.40
	9	8	4.20	4.10	4.00	3.70	3.40
	11	10	4.40	4.20	4.00	3.70	3.40
	13	12	4.50	4.20	4.00	3.70	3.40
	15	14	4.60	4.30	4.00	3.70	3.40

3 Dimensional drawing

1Way Cassette

AM017HN1DEH/EU, AM022HN1DEH/EU

Units : mm / inches

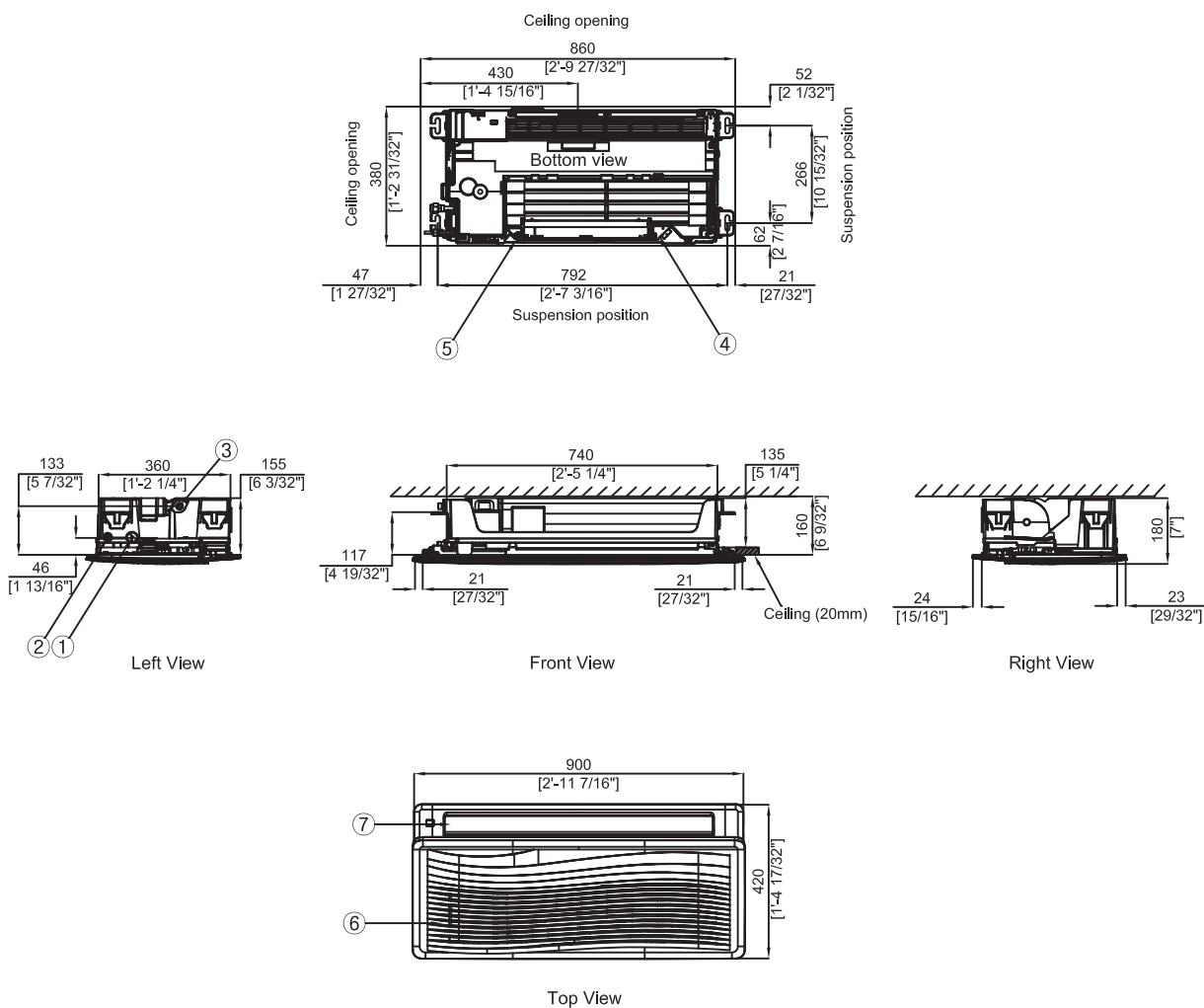


Table of descriptions

1	Refrigerant gas pipe	7	Air outlet louver
2	Refrigerant liquid pipe	8	
3	Drain pipe	9	
4	Power supply wiring conduit	10	
5	Communication wiring conduit	11	
6	Air inlet grille	12	

3 Dimensional drawing

1Way Cassette

AM022FN1DEH/EU, AM028FN1DEH/EU, AM036FN1DEH/EU

Units : mm / inches

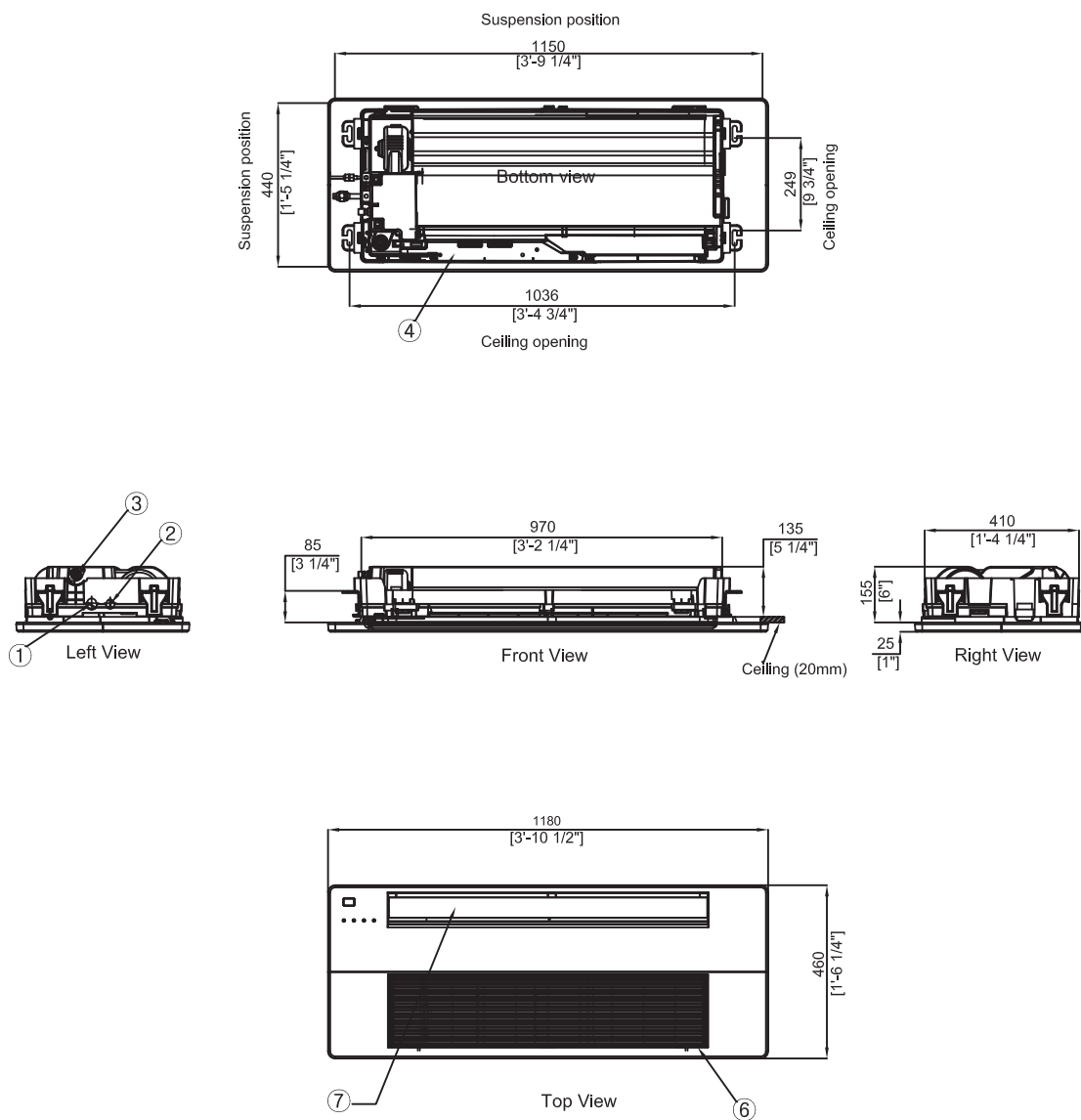


Table of descriptions

1	Refrigerant gas pipe	7	
2	Refrigerant liquid pipe	8	
3	Condensate drain	9	
4	Power & Comm. wiring conduits	10	
5	Air discharge louver	11	
6	Air suction grille	12	

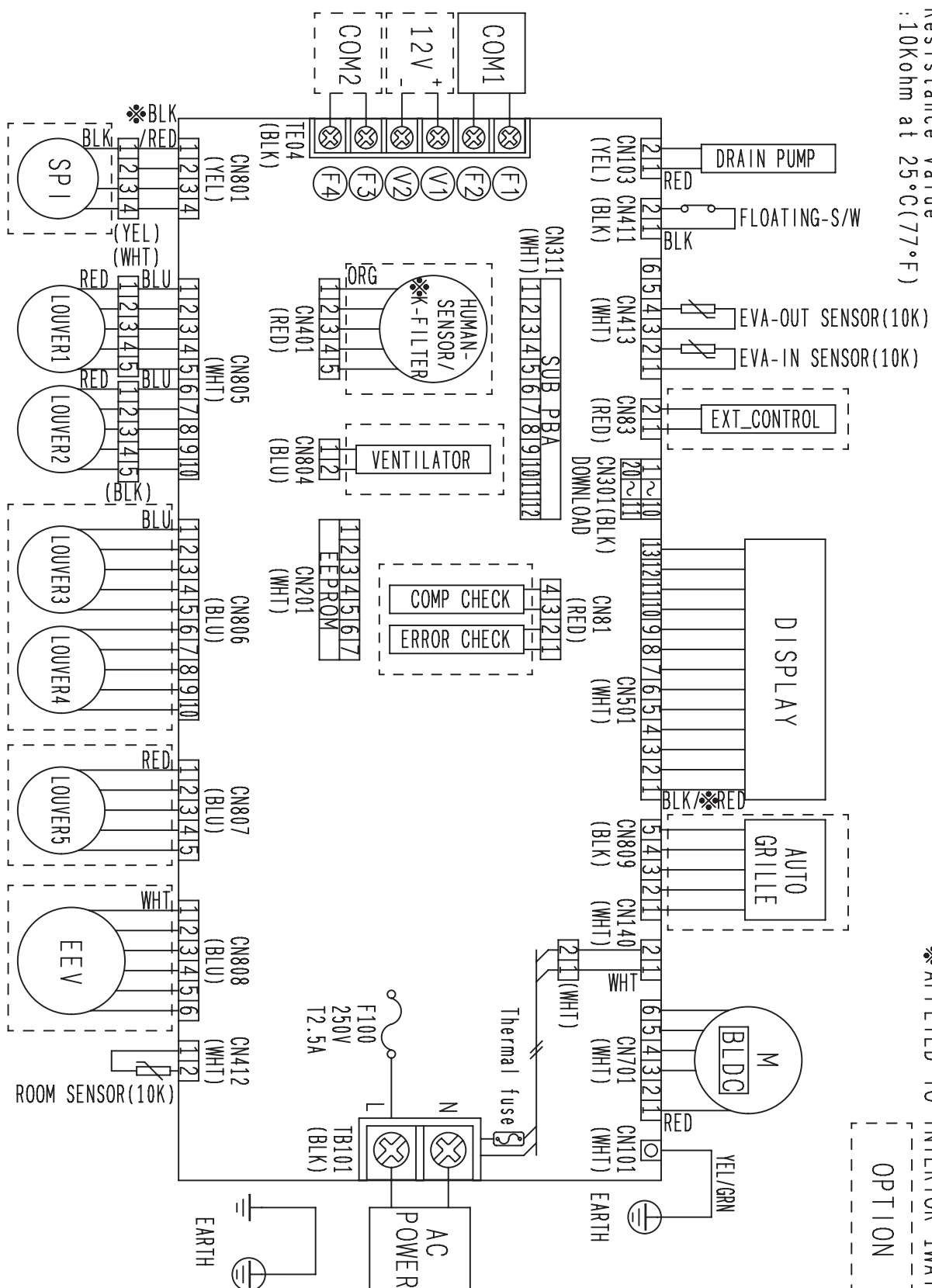
4 Electrical wiring diagram

1Way Cassette

AM017HN1DEH/EU, AM022HN1DEH/EU

Resistance value
: 10k Ω at 25°C(77°F)

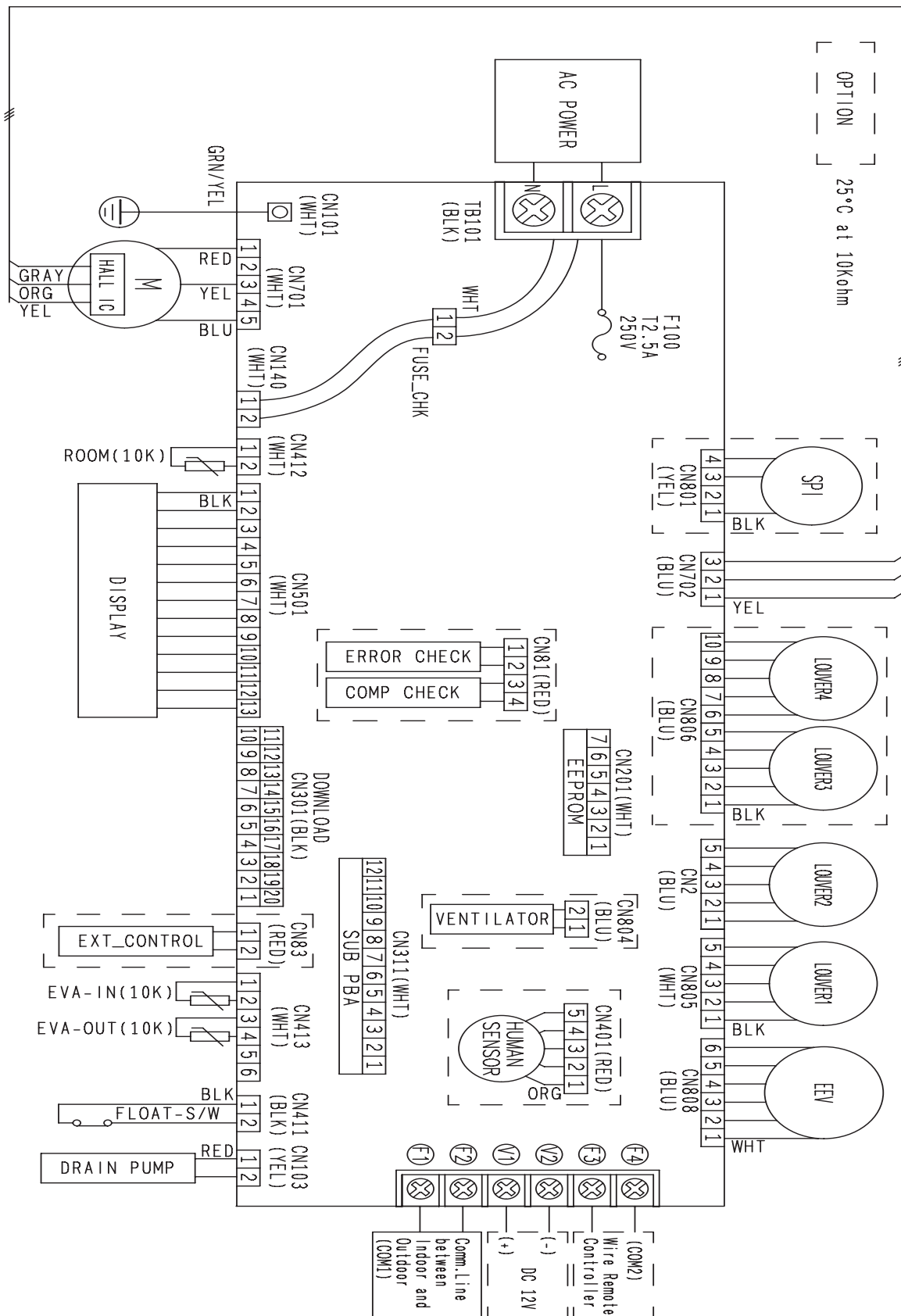
✳ APPLIED TO INTERIOR 1WAY
OPTION



4

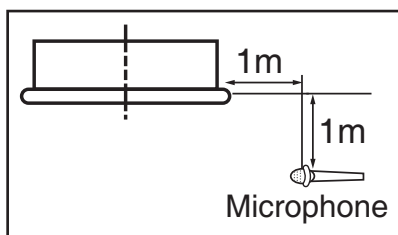
1Way Cassette

AM022FN1DEH/EU, AM028FN1DEH/EU, AM036FN1DEH/EU



5 Sound pressure level

1Way Cassette



Unit: dB(A)

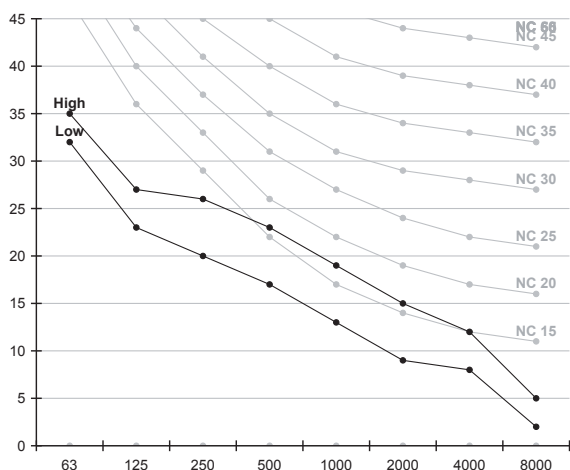
Model	High	Low
AM017HN1DEH/EU	27.0	21.0
AM022FN1DEH/EU	27.0	23.0
AM022HN1DEH/EU	27.0	23.0
AM028FN1DEH/EU	29.0	24.0

Note

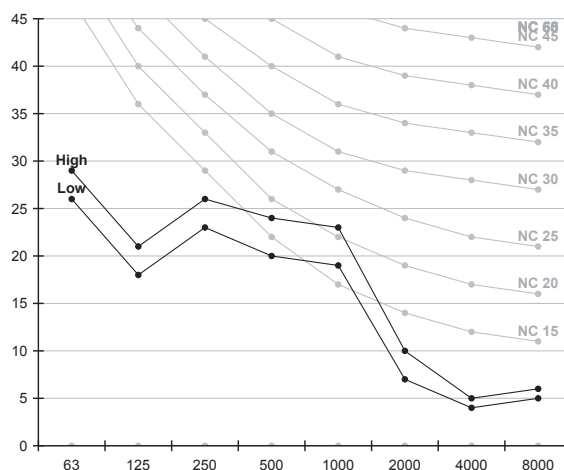
- These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a factors such as the construction of the particular room where the equipment is installed.
- Operation sound level may differ depending on operation and ambient conditions.

NC curve

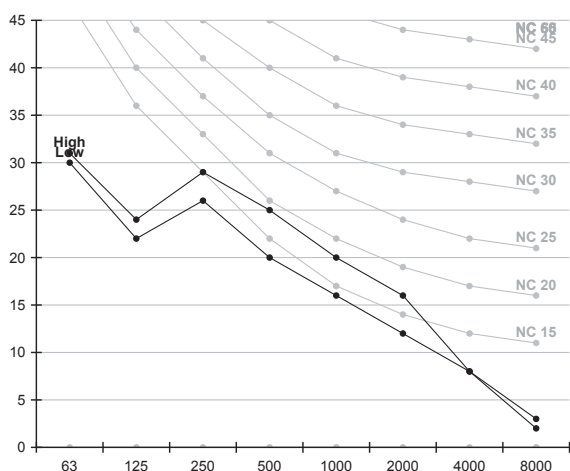
1) AM017HN1DEH/EU



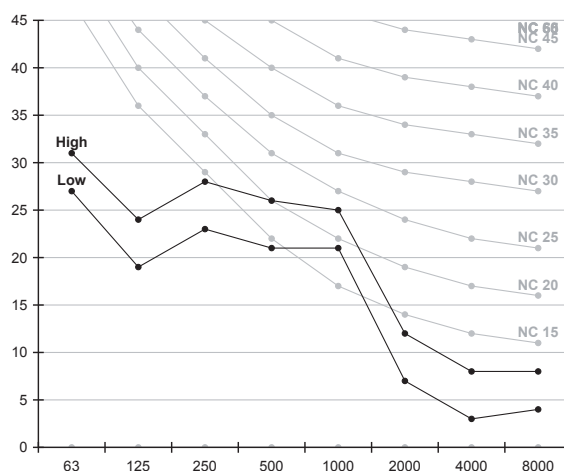
2) AM022FN1DEH/EU



3) AM022HN1DEH/EU

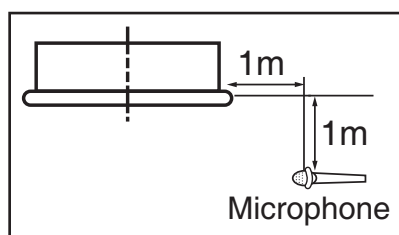


4) AM028FN1DEH/EU



5 Sound pressure level

1Way Cassette



Unit: dB(A)

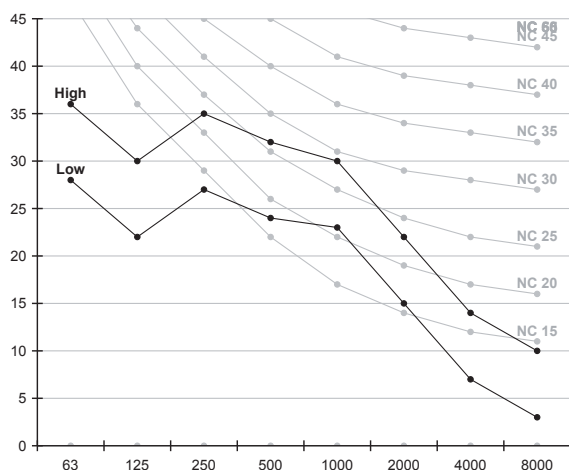
Model	High	Low
AM036FN1DEH/EU	35.0	27.0

Note

- These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a 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.

NC curve

1) AM036FN1DEH/EU



6 Sound power level

1Way Cassette

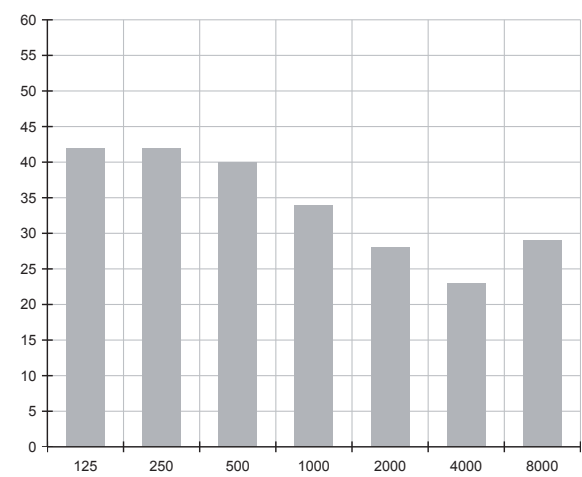
Note

- dBA = A-Weighted sound power level.
- Reference power : 1pW
- Measured according to ISO 3741.

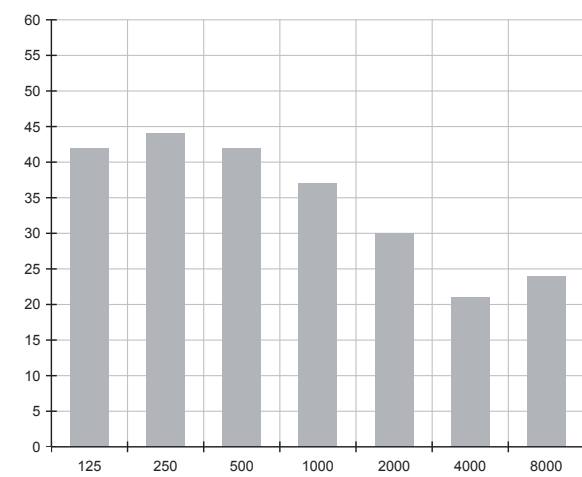
Unit: dB(A)

Model	Power
AM017HN1DEH/EU	43.0
AM022FN1DEH/EU	45.0
AM022HN1DEH/EU	46.0
AM028FN1DEH/EU	48.0

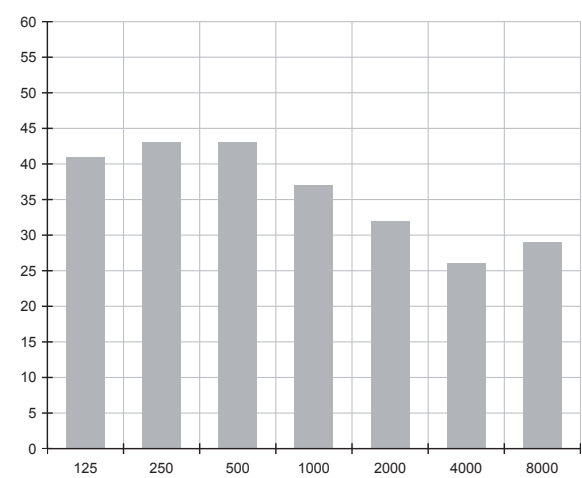
1)AM017HN1DEH/EU



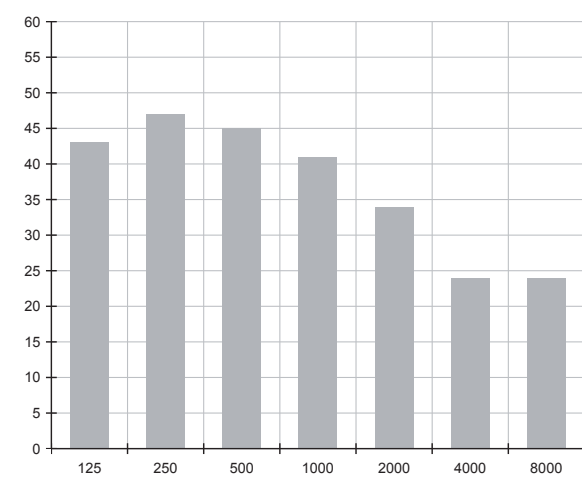
2)AM022FN1DEH/EU



3)AM022HN1DEH/EU



4)AM028FN1DEH/EU



6 Sound power level

1Way Cassette

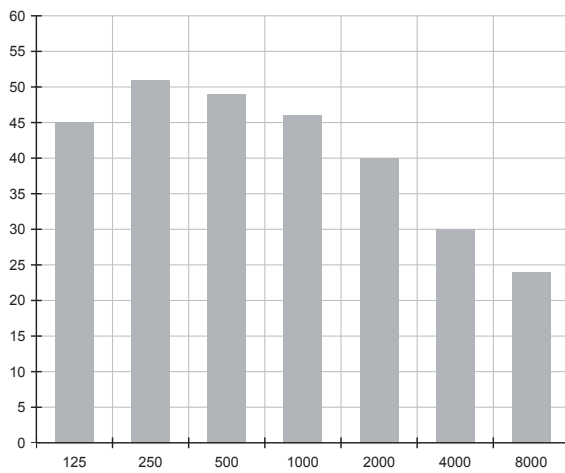
Note

- dBA = A-Weighted sound power level.
- Reference power : 1pW
- Measured according to ISO 3741.

Unit: dB(A)

Model	Power
AM036FN1DEH/EU	52.0

1)AM036FN1DEH/EU



2Way Cassette

1 Specifications

2 Capacity table

3 Dimensional drawing

4 Electrical wiring diagram

5 Sound pressure level

6 Temperature and air flow distribution

1 Specifications

2Way Cassette

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.

2 Capacity table

2Way Cassette

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	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
	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

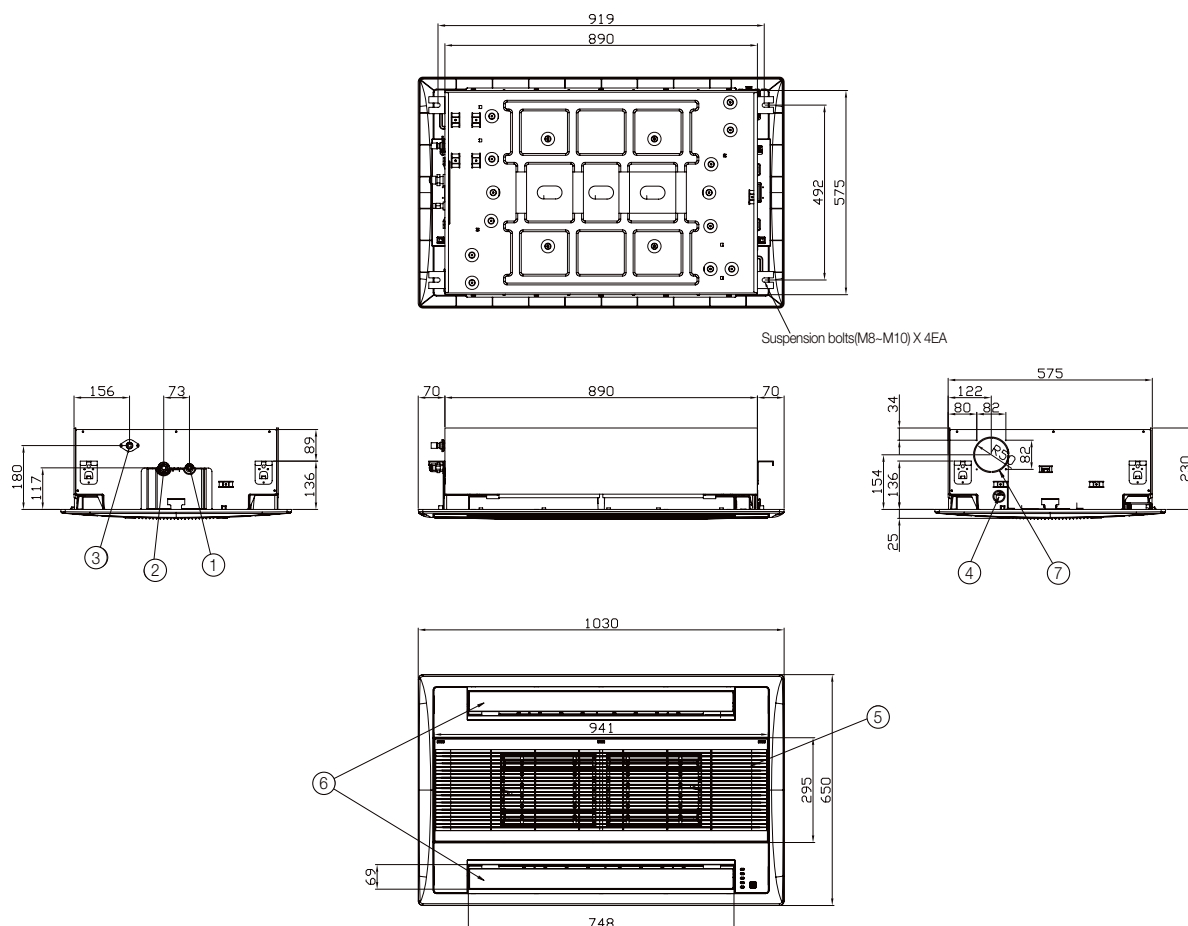
2) Heating

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
071	15	14	7.3	6.8	6.3	5.8	5.3
	-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

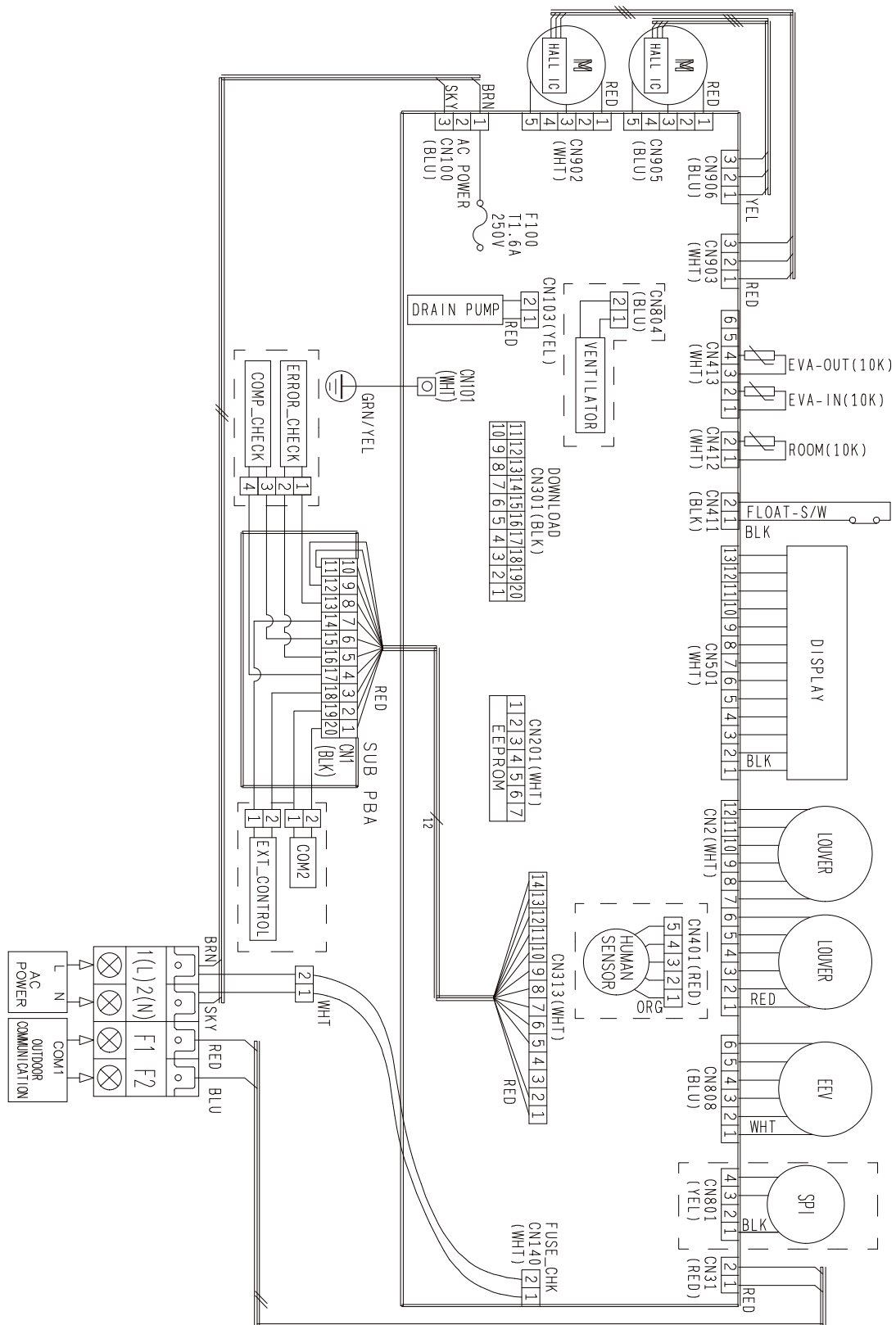
3 Dimensional drawing

2Way Cassette



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	-	-

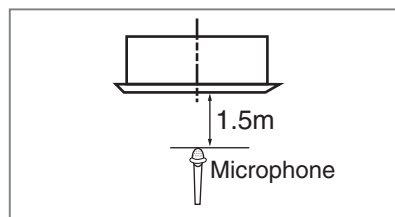
2Way Cassette



5 Sound pressure level

2Way Cassette

Unit : dB(A)



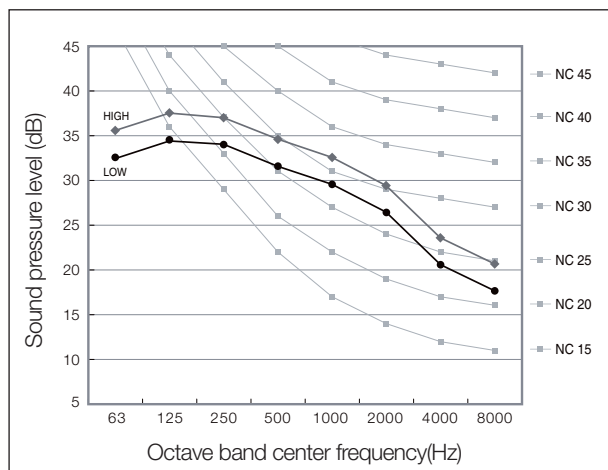
Model	High	Low
AM056FN2DEH***	38	35
AM071FN2DEH***	41	37

✓ Note

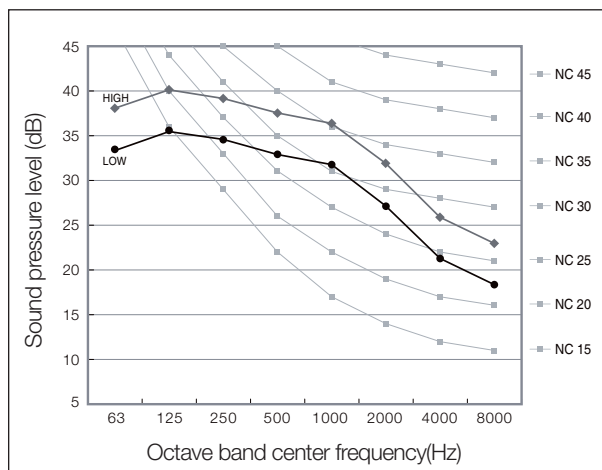
- ◆ These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- ◆ Operation sound level may differ depending on operation and ambient conditions.

2) NC curves

(1) AM056FN2DEH***



(2) AM071FN2DEH***



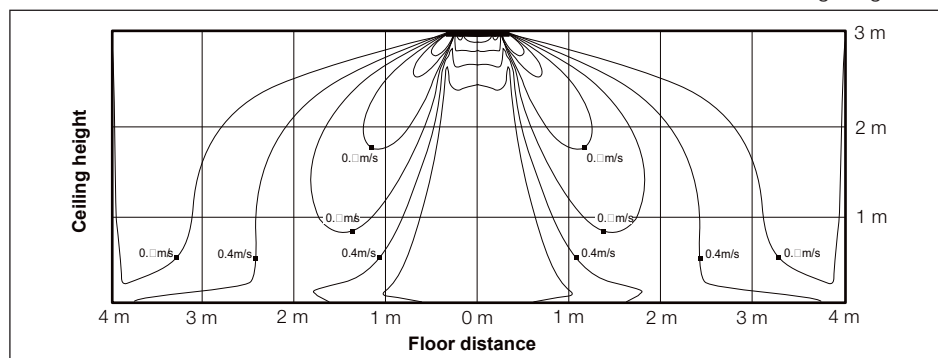
6 Temperature and air flow distribution

2Way Cassette

1) AM071FN2DEH***

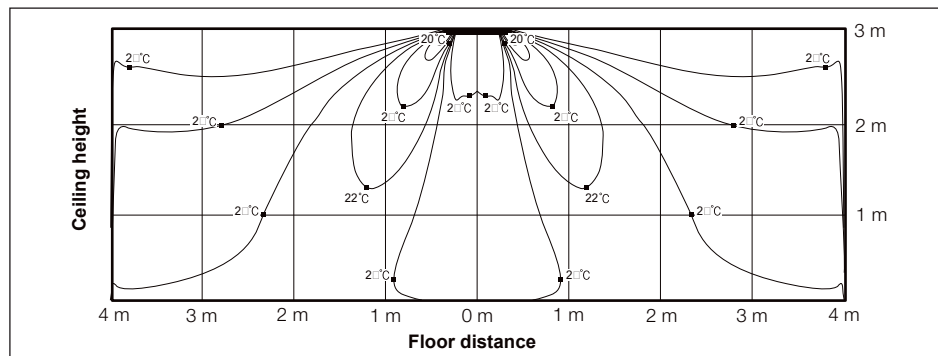
(1) Cooling air velocity distribution

◆ Discharge angle : 54°



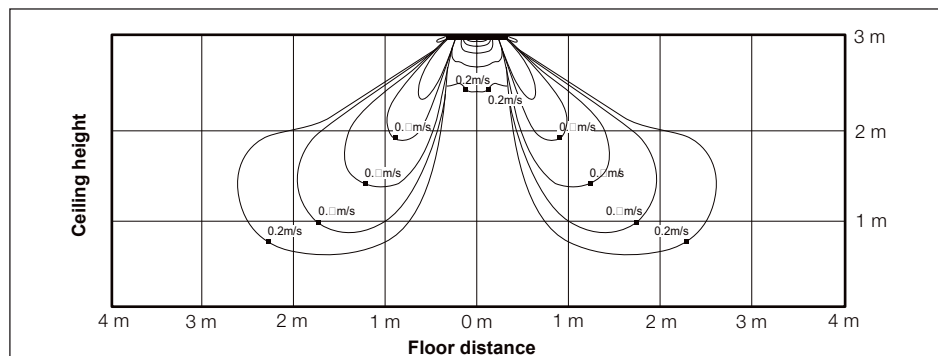
(2) Cooling temperature distribution

◆ Discharge angle : 54°



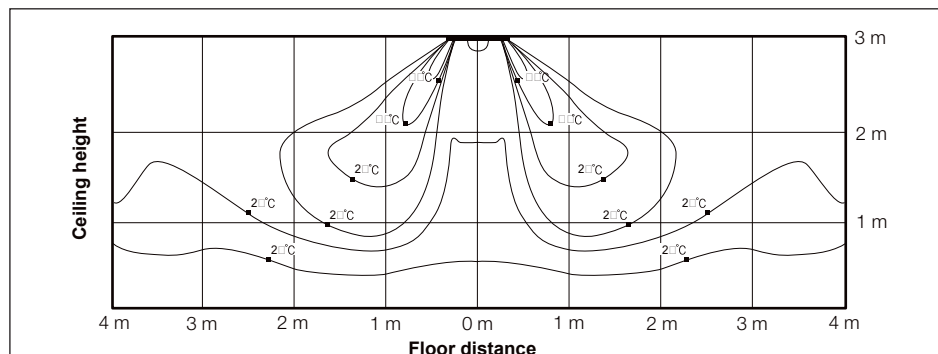
(3) Heating air velocity distribution

◆ Discharge angle : 54°



(4) Heating temperature distribution

◆ Discharge angle : 54°



4Way Cassette S

1 Specifications

2 Capacity table

3 Dimensional drawing

4 Electrical wiring diagram

5 Sound pressure level

6 Temperature and air flow distribution

1 Specifications

4Way Cassette S

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	1,2,220-240,50
Mode			-	HP/HR	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
	Current Input (Nominal)	Cooling	A	0.22	0.22	0.31	0.43
				Heating	0.22	0.22	0.31
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.

1 Specifications

4Way Cassette S

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 Capacity table

4Way Cassette S

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

2 Capacity table

4Way Cassette S

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)	
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 Capacity table

4Way Cassette S

2) Heating

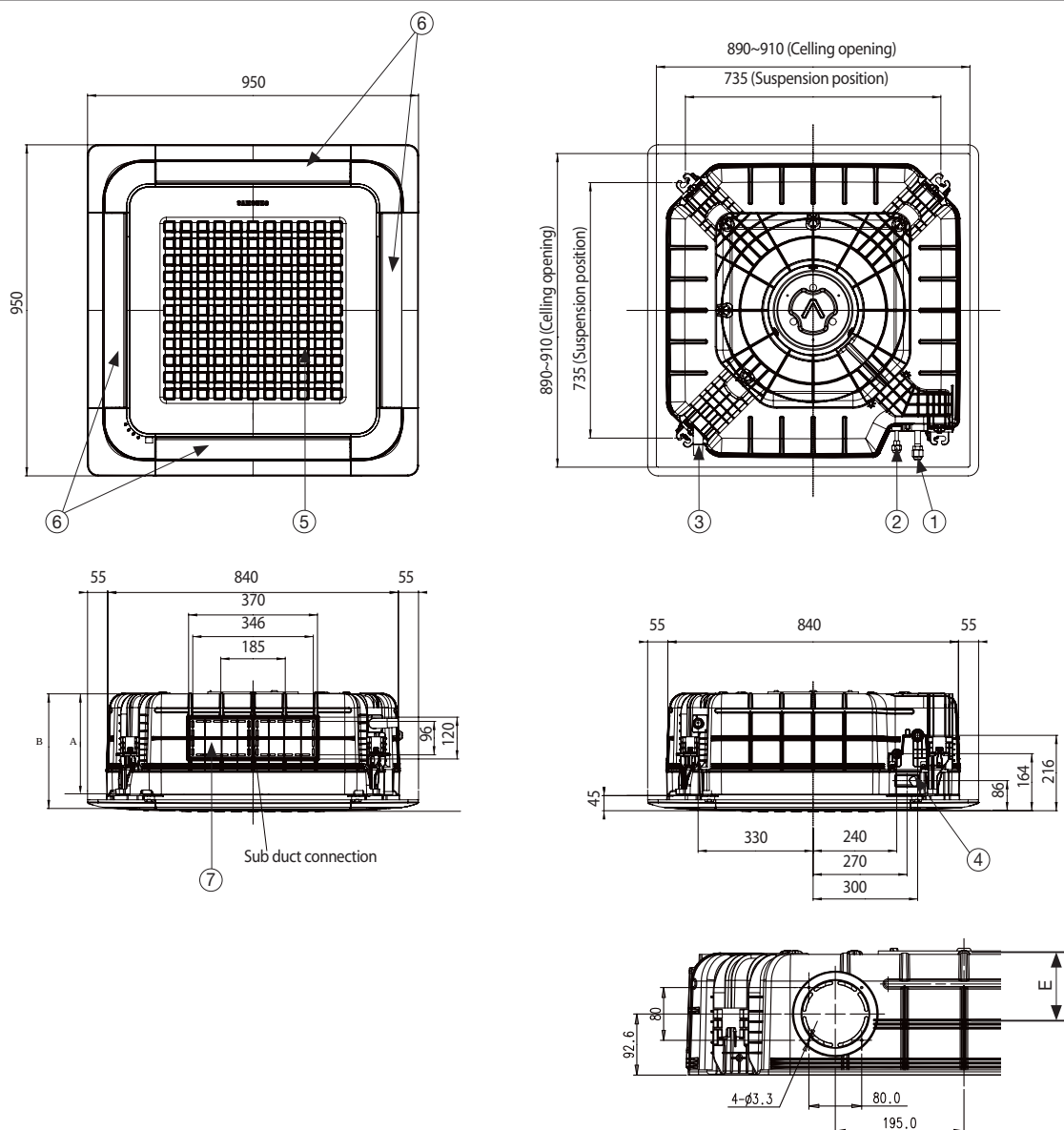
TC : Total Capacity(kW)

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

3 Dimensional drawing

4Way Cassette S

Unit:mm

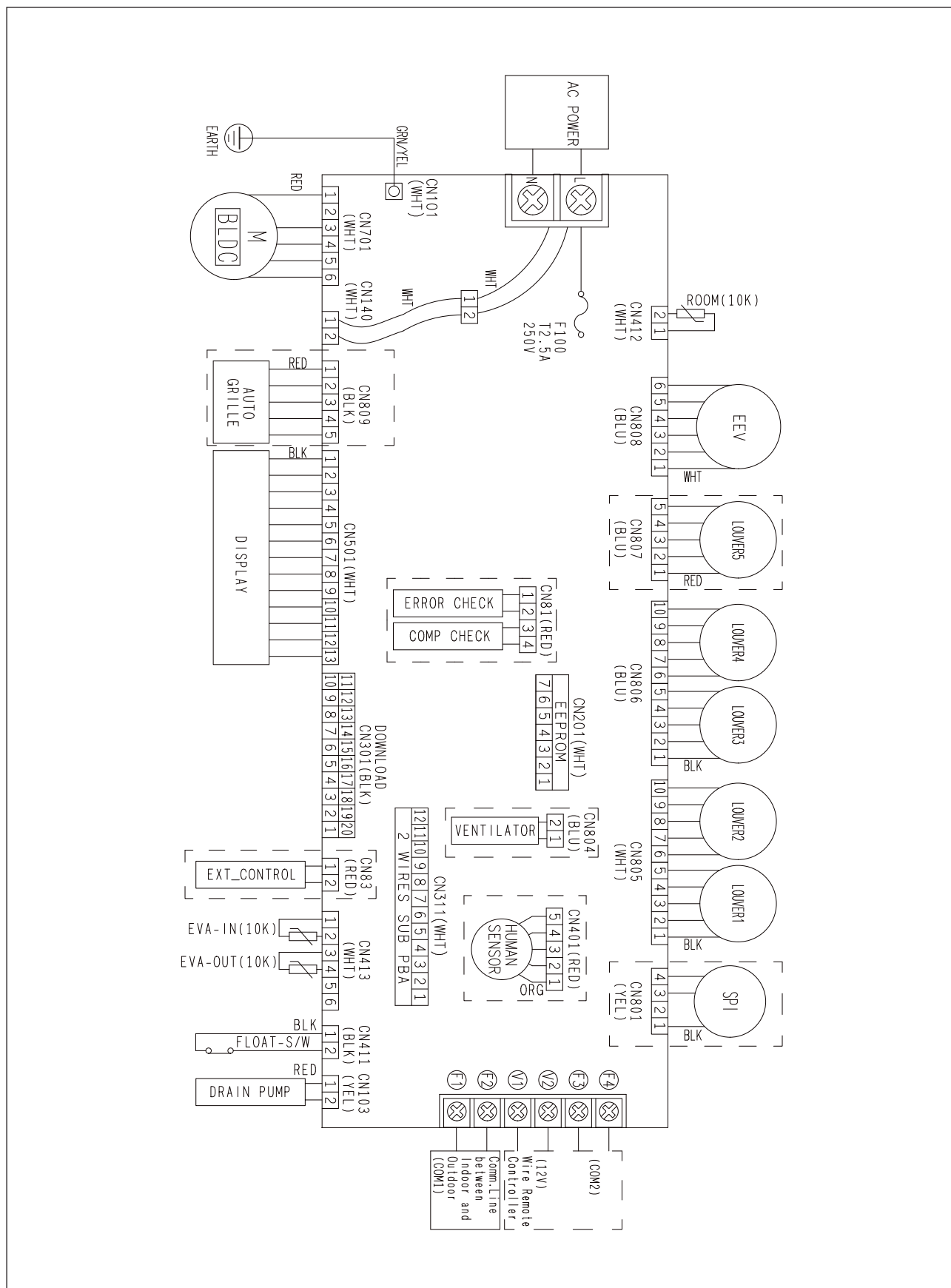


No.	Name	Description			
		4.5/5.6kW	7.1/9.0kW	11.2kW	12.8/14.0kW
①	Liquid pipe connection	Ø6.35 Flare	Ø9.52 Flare		
②	Gas pipe connection	Ø12.70 Flare	Ø15.88 Flare		
③	Drain pipe connection	VP25 (OD 32, ID 25)			
④	Conduit for power supply & communication wiring	-			
⑤	Air inlet grille	-			
⑥	Air outlet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

4 Electrical wiring diagram

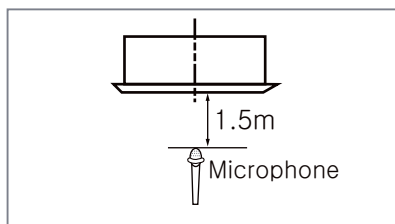
4Way Cassette S



5 Sound pressure level

4Way Cassette S

1) Operation sound level



Unit : dB(A)

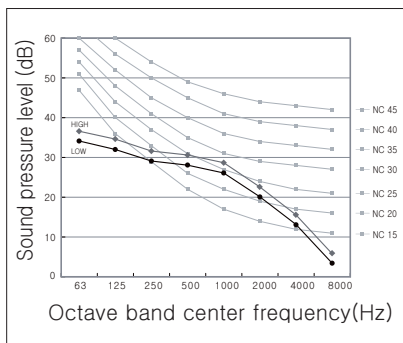
Model	High	Low
AM045FN4DEH***	33	30
AM056FN4DEH***	33	30
AM071FN4DEH***	35	33
AM090FN4DEH***	39	33
AM112FN4DEH***	40	35
AM128FN4DEH***	42	35
AM140FN4DEH***	44	35



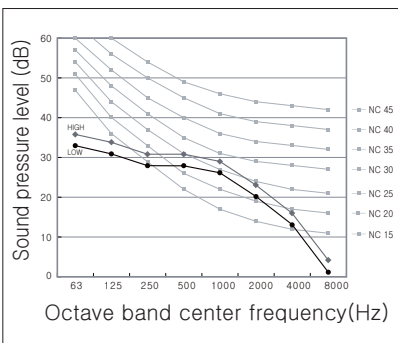
- * These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- * Operation sound level may differ depending on operation and ambient conditions.

2) NC curves

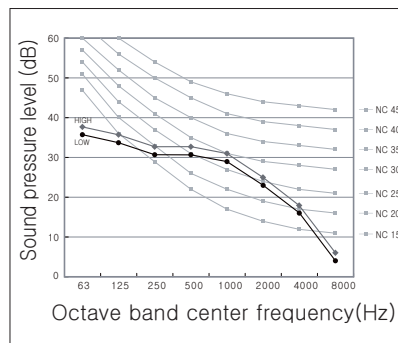
(1)AM045FN4DEH***



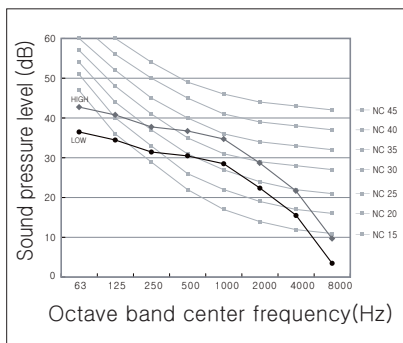
(2)AM056FN4DEH***



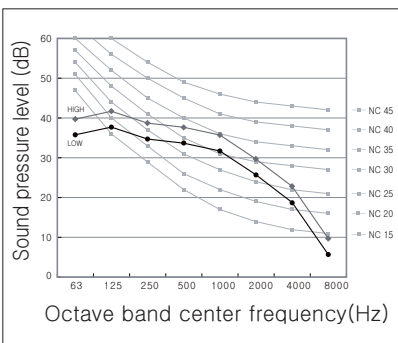
(3)AM071FN4DEH***



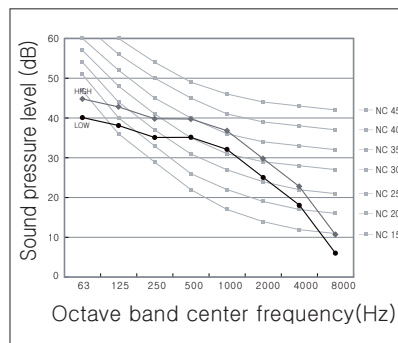
(4)AM090FN4DEH***



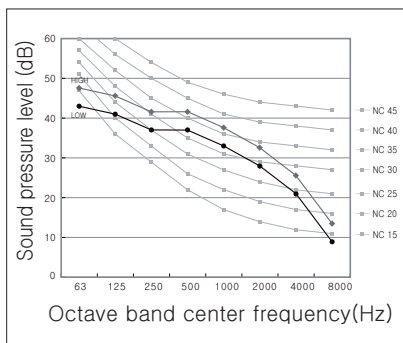
(5)AM112FN4DEH***



(6)AM128FN4DEH***



(7)AM140FN4DEH***



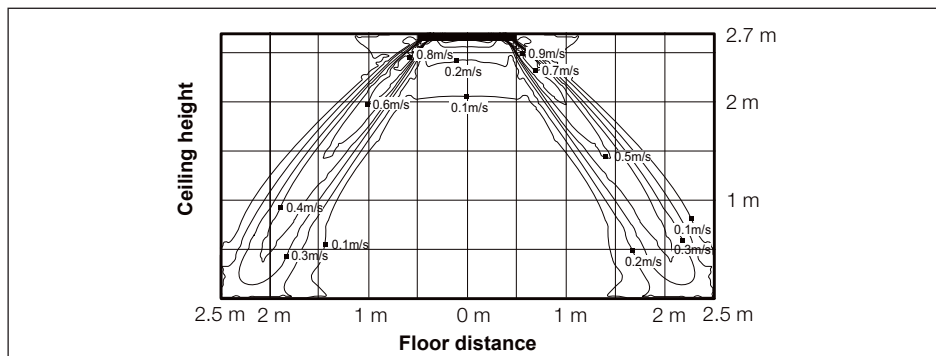
6 Temperature and air flow distribution

4Way Cassette S

1) AM045FN4DEH***

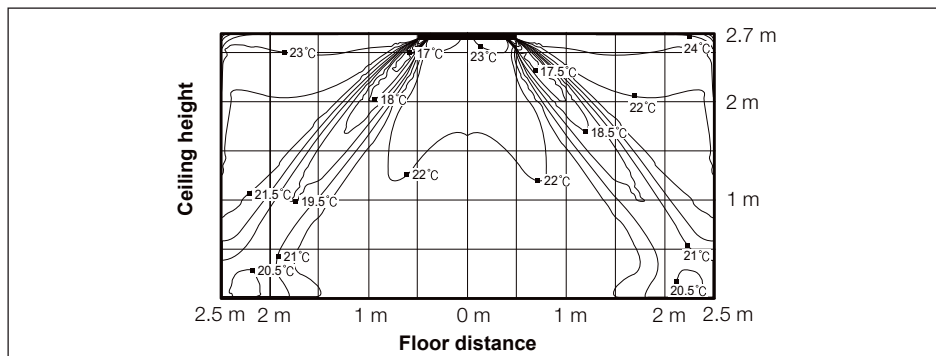
(1) Cooling air velocity distribution

◆ Discharge angle : 45°



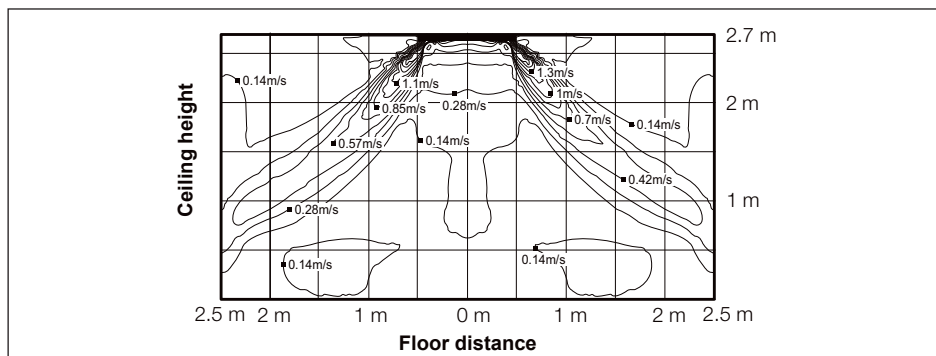
(2) Cooling temperature distribution

◆ Discharge angle : 45°



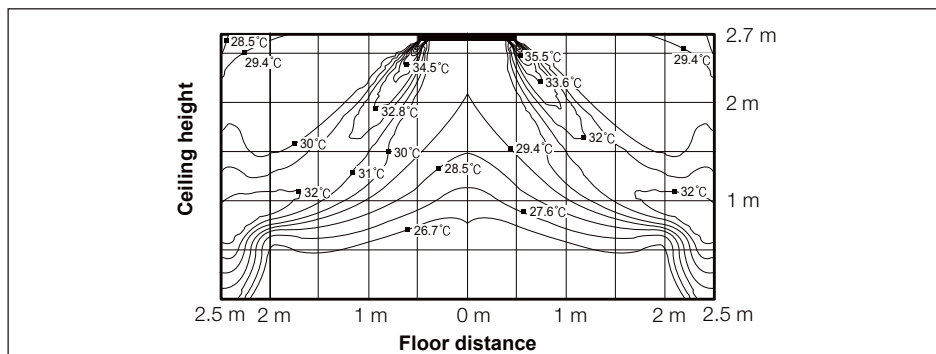
(3) Heating air velocity distribution

◆ Discharge angle : 52°



(4) Heating temperature distribution

◆ Discharge angle : 52°



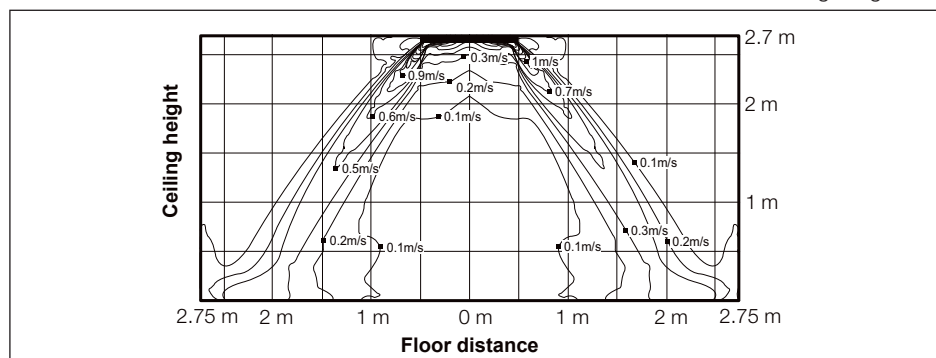
6 Temperature and air flow distribution

4Way Cassette S

2) AM056FN4DEH***

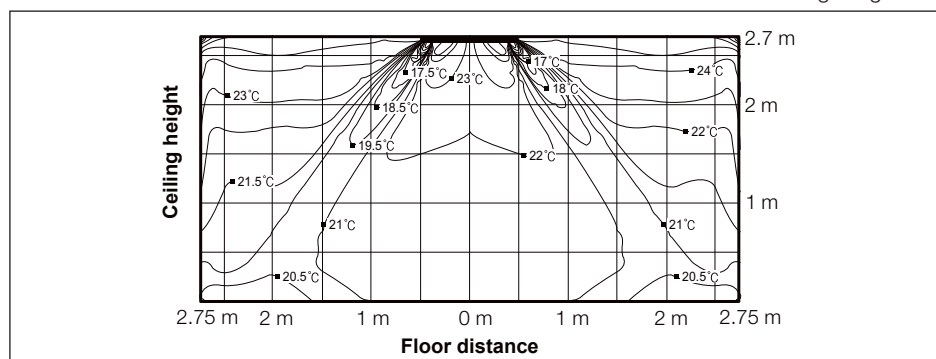
(1) Cooling air velocity distribution

◆ Discharge angle : 45°



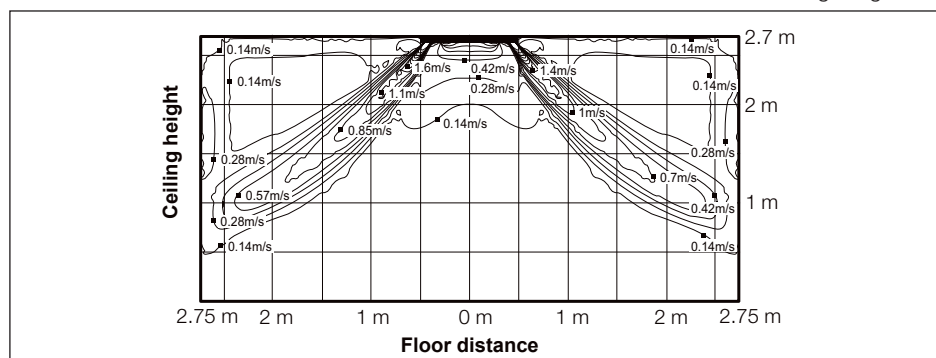
(2) Cooling temperature distribution

◆ Discharge angle : 45°



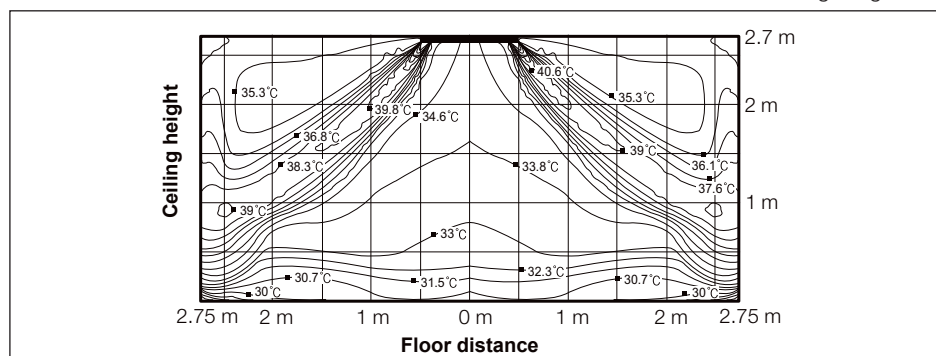
(3) Heating air velocity distribution

◆ Discharge angle : 52°



(4) Heating temperature distribution

◆ Discharge angle : 52°



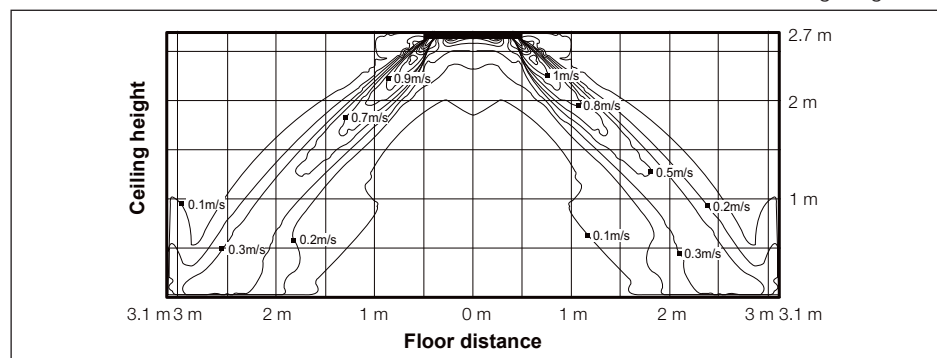
6 Temperature and air flow distribution

4Way Cassette S

3) AM070FN4DEH***

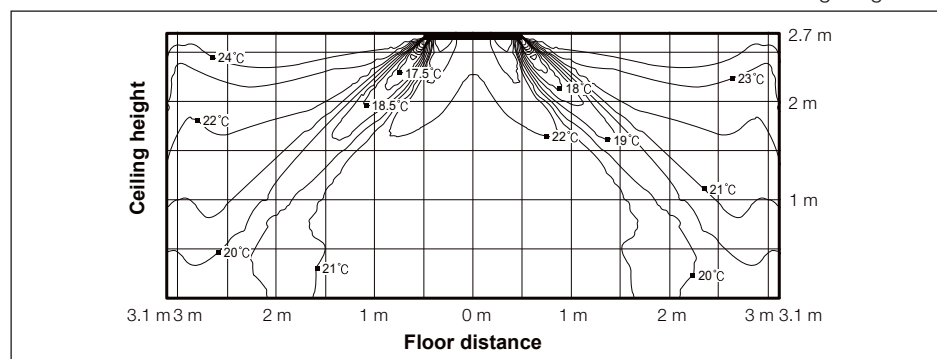
(1) Cooling air velocity distribution

◆ Discharge angle : 45°



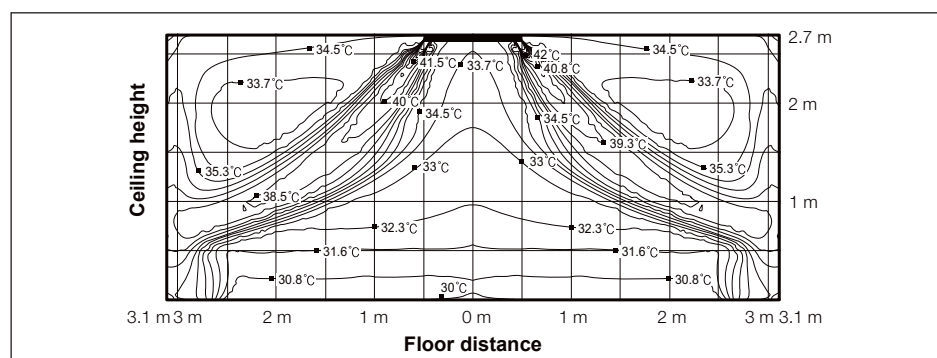
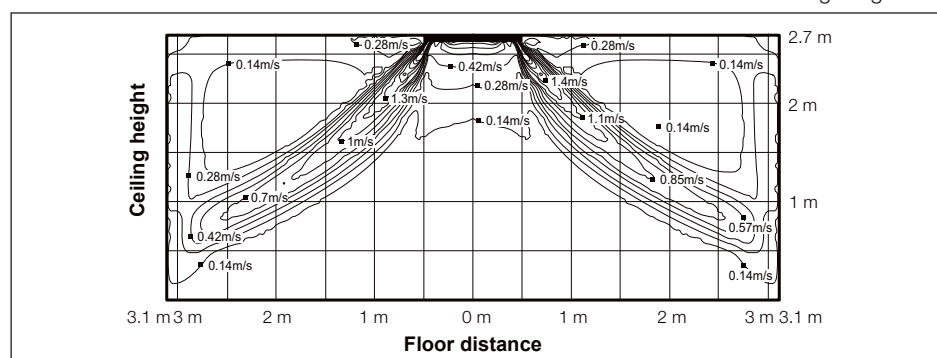
(2) Cooling temperature distribution

◆ Discharge angle : 45°



(3) Heating air velocity distribution

◆ Discharge angle : 52°



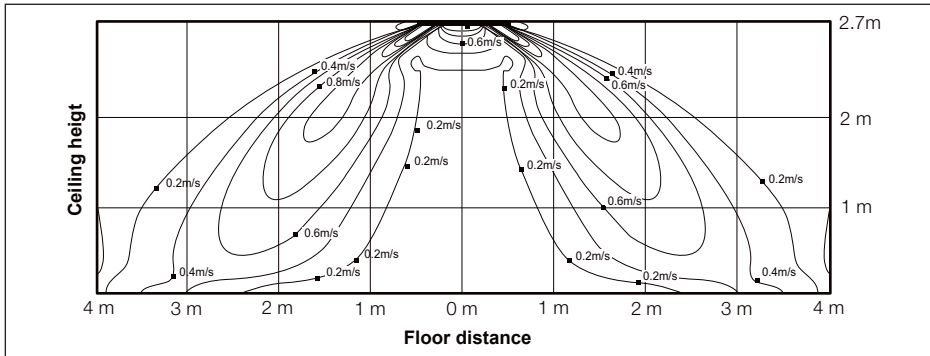
6 Temperature and air flow distribution

4Way Cassette S

4) AM090FN4DEH***

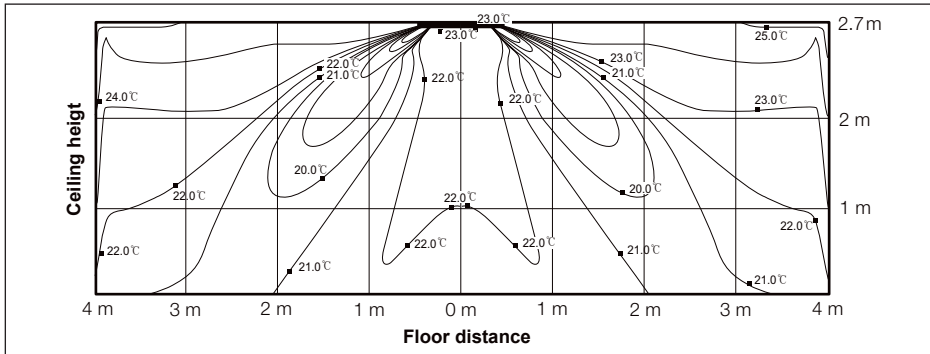
(1) Cooling air velocity distribution

◆ Discharge angle : 45°



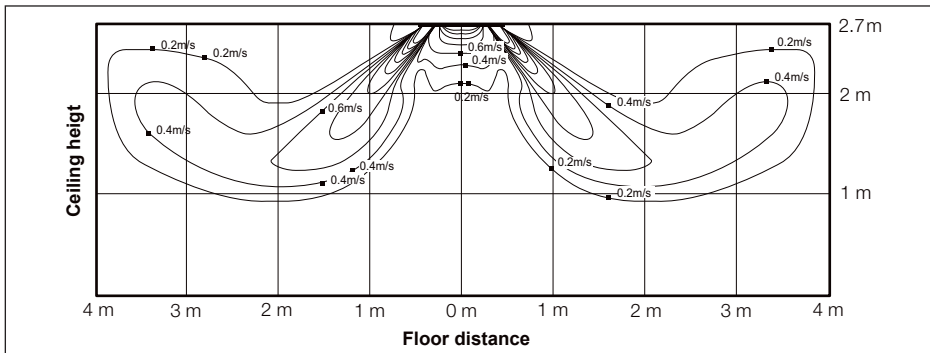
(2) Cooling temperature distribution

◆ Discharge angle : 45°



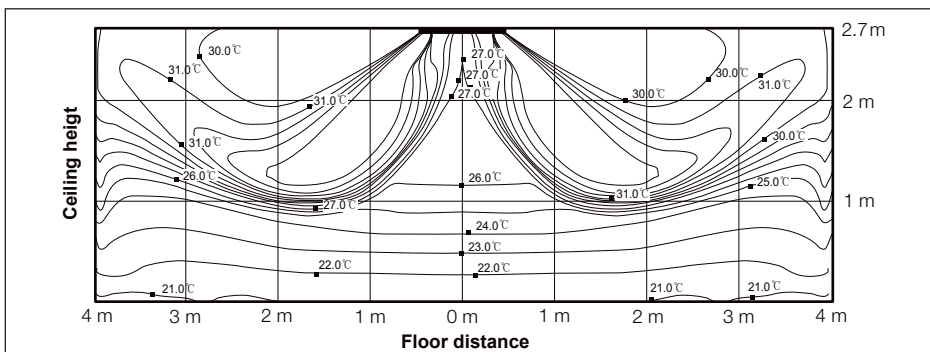
(3) Heating air velocity distribution

◆ Discharge angle : 52°



(4) Heating temperature distribution

◆ Discharge angle : 52°



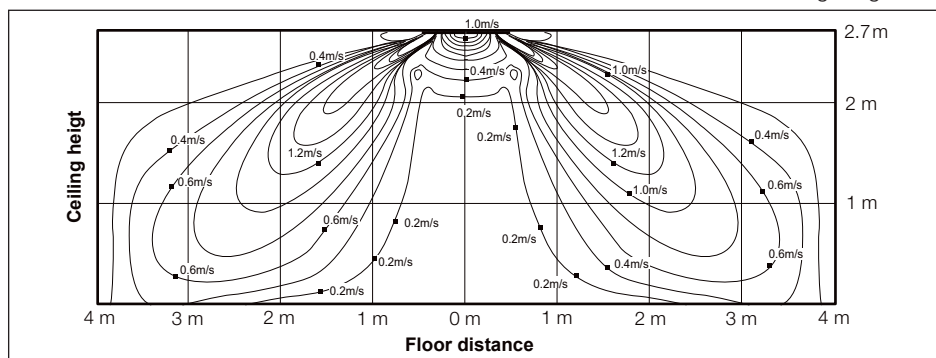
6 Temperature and air flow distribution

4Way Cassette S

5) AM112FN4DEH***

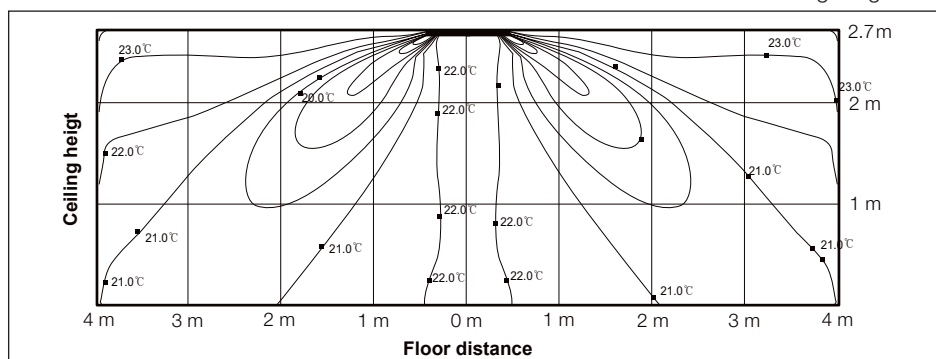
(1) Cooling air velocity distribution

◆ Discharge angle : 45°



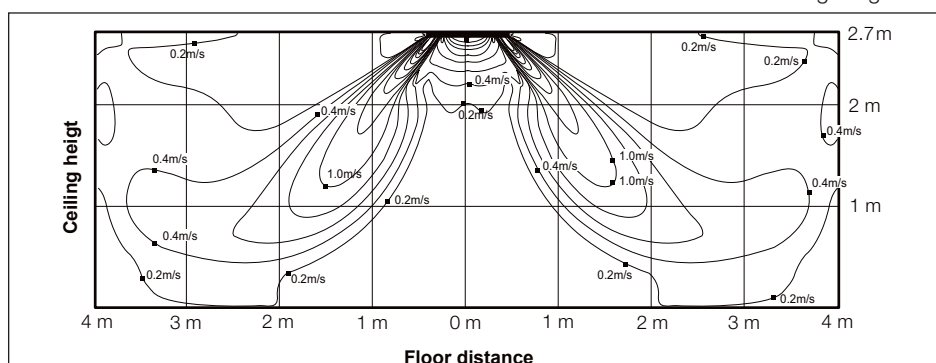
(2) Cooling temperature distribution

◆ Discharge angle : 45°



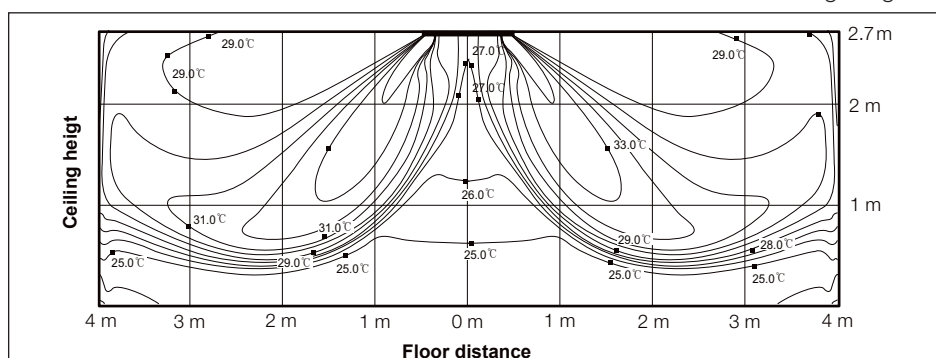
(3) Heating air velocity distribution

◆ Discharge angle : 52°



(4) Heating temperature distribution

◆ Discharge angle : 52°



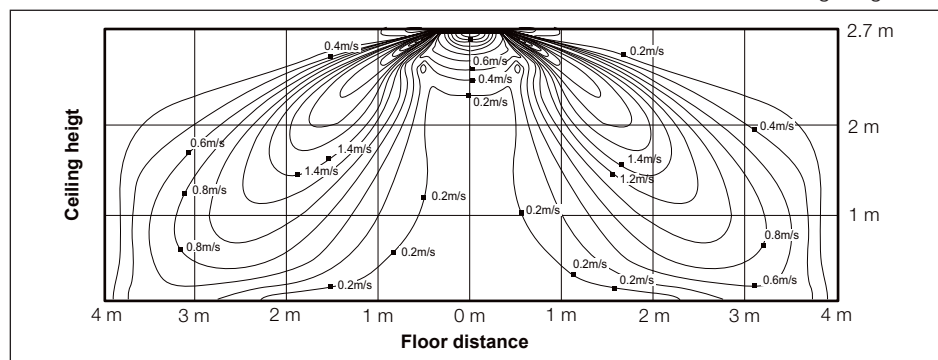
6 Temperature and air flow distribution

4Way Cassette S

6) AM140FN4DEH***

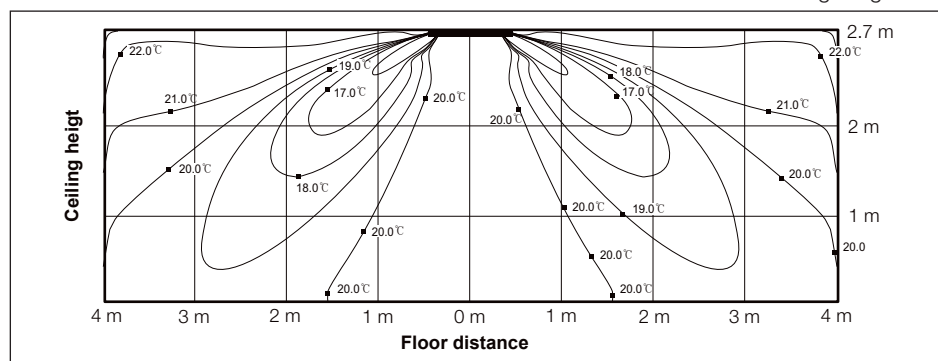
(1) Cooling air velocity distribution

◆ Discharge angle : 45°



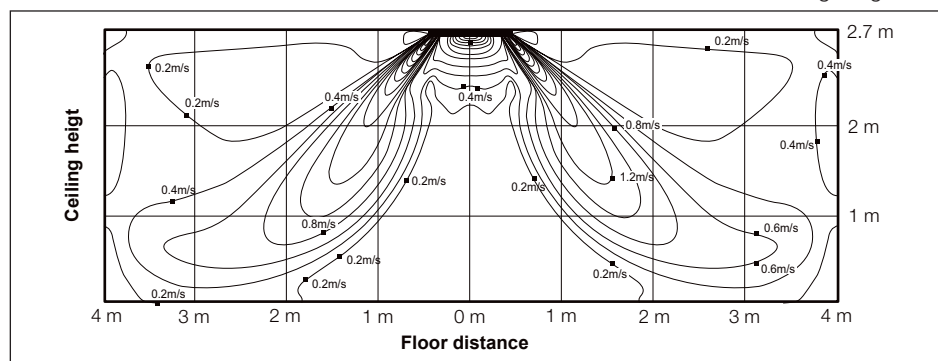
(2) Cooling temperature distribution

◆ Discharge angle : 45°



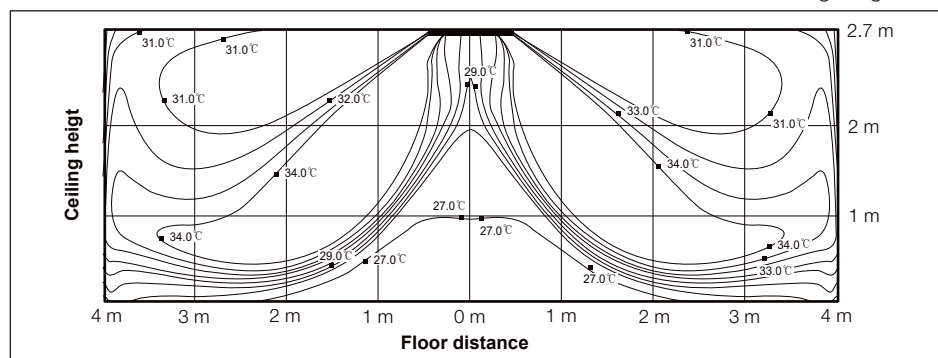
(3) Heating air velocity distribution

◆ Discharge angle : 52°



(4) Heating temperature distribution

◆ Discharge angle : 52°



4Way Cassette S(600X600)

1 Specifications

2 Capacity table

3 Dimensional drawing

4 Electrical wiring diagram

5 Sound pressure level

6 Sound power level

1 Specifications

4Way Cassette S (600 x 600)

Type				4Way Cassette (600 x 600)		4Way Cassette (600 x 600)	
Model				AM015HNNDEH/EU		AM022FNNDEH/EU	
Power Supply			Ø, #, V, Hz	1,2,220–240,50		1,2,220–240,50	
Mode			–	HP/HR		HP/HR	
Performance	Capacity (Nominal)	Cooling	kW	1.50		2.20	
			Btu/h	5,100		7,500	
		Heating	kW	1.70		2.50	
			Btu/h	5,800		8,500	
Power	Power Input (Nominal)	Cooling	W	18.00		18.00	
		Heating		18.00		18.00	
	Current Input (Nominal)	Cooling	A	0.17		0.17	
		Heating		0.17		0.17	
Fan	Motor	Type	–	Turbo Fan		Turbo Fan	
		Output x n	w	65 x 1		65 x 1	
	Air Flow Rate	H/M/L (UL)	CMM	8.20 / 7.00 / 6.30		9.00 / 7.70 / 6.50	
			l/s	136.67 / 116.67 / 105.00		150.00 / 128.33 / 108.33	
	External Pressure	Min/Std/Max	mmAq	–		–	
			Pa	–		–	
Piping Connections	Liquid Pipe		Ø, mm	6.35		6.35	
			Ø, inch	1/4"		1/4"	
	Gas Pipe		Ø, mm	12.70		12.70	
			Ø, inch	1/2"		1/2"	
	Drain Pipe		Ø, mm	VP25 (OD 32,ID 25)		VP25 (OD 32,ID 25)	
Field Wiring	Power Source Wire		mm²	1.5 – 2.5		1.5 – 2.5	
	Transmission Cable		mm²	0.75 – 1.50		0.75 – 1.50	
Refrigerant	Type		–	R410A		R410A	
	Control Method		–	EEV(O)		EEV(O)	
Sound	Pressure	High / Mid / Low	dB(A)	30.0 / 28.0 / 23.0		32.0 / 29.0 / 25.0	
	Power	Cooling		46.0		47.0	
Dimension	Net Weight		kg	12.00		12.00	
	Shipping Weight		kg	14.00		14.00	
	Net Dimensions (WxHxD)		mm	575 x 250 x 575		575 x 250 x 575	
	Shipping Dimensions (WxHxD)		mm	623 x 298 x 653		623 x 298 x 653	
Panel Size	Panel model		–	PC4SUSMAN		PC4SUSMAN	
	Panel Net Weight		kg	2.70		2.70	
	Shipping Weight		kg	4.20		4.20	
	Net Dimensions (WxHxD)		mm	670 x 45 x 670		670 x 45 x 670	
	Shipping Dimensions (WxHxD)		mm	714 x 106 x 724		714 x 106 x 724	
Additional Accessories	Drain Pump	Drain Pump	– / Model	–		–	
		Max. lifting Height / Displacement	mm/liter/h	–		–	
	Air Filter		–	–		–	

- Mode : HP(Heat Pump), HR(Heat Recovery)

- Nominal Cooling : Indoor temperature 27 °CDB / 19 °CWB, Outdoor temperature 35 °CDB/24 °CWB, Refrigerant pipe length 7.5m, Level difference 0m.

- Nominal Heating : Indoor temperature 20 °CDB/15 °CWB, Outdoor temperature 7 °CDB / 6 °CWB, Refrigerant pipe length 7.5m, Level difference 0m.

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

- These products contain R410A which is fluorinated greenhouse gas.

- Specifications may be subject to change without prior notice.

1 Specifications

4Way Cassette S (600 x 600)

Type				4Way Cassette (600 x 600)		4Way Cassette (600 x 600)	
Model				AM028FNNDEH/EU		AM036FNNDEH/EU	
Power Supply			Ø, #, V, Hz	1,2,220–240,50		1,2,220–240,50	
Mode			–	HP/HR		HP/HR	
Performance	Capacity (Nominal)	Cooling	kW	2.80		3.60	
			Btu/h	9,600		12,300	
		Heating	kW	3.20		4.00	
			Btu/h	10,900		13,600	
Power	Power Input (Nominal)	Cooling	W	18.00		20.00	
		Heating		18.00		20.00	
	Current Input (Nominal)	Cooling	A	0.17		0.19	
		Heating		0.17		0.19	
Fan	Motor	Type	–	Turbo Fan		Turbo Fan	
		Output x n	w	65 x 1		65 x 1	
	Air Flow Rate	H/M/L (UL)	CMM	10.00 / 8.50 / 7.50		10.50 / 9.50 / 8.00	
			l/s	166.67 / 141.67 / 125.00		175.00 / 158.33 / 133.33	
	External Pressure	Min/Std/Max	mmAq	–		–	
			Pa	–		–	
Piping Connections	Liquid Pipe		Ø, mm	6.35		6.35	
			Ø, inch	1/4"		1/4"	
	Gas Pipe		Ø, mm	12.70		12.70	
			Ø, inch	1/2"		1/2"	
	Drain Pipe		Ø, mm	VP25 (OD 32,ID 25)		VP25 (OD 32,ID 25)	
Field Wiring	Power Source Wire		mm²	1.5 – 2.5		1.5 – 2.5	
	Transmission Cable		mm²	0.75 – 1.50		0.75 – 1.50	
Refrigerant	Type		–	R410A		R410A	
	Control Method		–	EEV(O)		EEV(O)	
Sound	Pressure	High / Mid / Low	dB(A)	33.0 / 30.0 / 26.0		34.0 / 30.0 / 26.0	
	Power	Cooling		50.0		51.0	
Dimension	Net Weight		kg	12.00		12.00	
	Shipping Weight		kg	14.00		14.00	
	Net Dimensions (WxHxD)		mm	575 x 250 x 575		575 x 250 x 575	
	Shipping Dimensions (WxHxD)		mm	623 x 298 x 653		623 x 298 x 653	
Panel Size	Panel model		–	PC4SUSMAN		PC4SUSMAN	
	Panel Net Weight		kg	2.70		2.70	
	Shipping Weight		kg	4.20		4.20	
	Net Dimensions (WxHxD)		mm	670 x 45 x 670		670 x 45 x 670	
	Shipping Dimensions (WxHxD)		mm	714 x 106 x 724		714 x 106 x 724	
Additional Accessories	Drain Pump	Drain Pump	– / Model	–		–	
		Max. lifting Height / Displacement	mm/liter/h	–		–	
	Air Filter		–	–		–	

- Mode : HP(Heat Pump), HR(Heat Recovery)

- Nominal Cooling : Indoor temperature 27 °CDB / 19 °CWB, Outdoor temperature 35 °CDB/24 °CWB, Refrigerant pipe length 7.5m, Level difference 0m.

- Nominal Heating : Indoor temperature 20 °CDB/15 °CWB, Outdoor temperature 7 °CDB / 6 °CWB, Refrigerant pipe length 7.5m, Level difference 0m.

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

- These products contain R410A which is fluorinated greenhouse gas.

- Specifications may be subject to change without prior notice.

1 Specifications

4Way Cassette S (600 x 600)

Type				4Way Cassette (600 x 600)		4Way Cassette (600 x 600)	
Model				AM045FNNDEH/EU		AM056FNNDEH/EU	
Power Supply			Ø, #, V, Hz	1,2,220–240,50		1,2,220–240,50	
Mode			–	HP/HR		HP/HR	
Performance	Capacity (Nominal)	Cooling	kW	4.50		5.60	
			Btu/h	15,400		19,100	
		Heating	kW	5.00		6.30	
			Btu/h	17,100		21,500	
Power	Power Input (Nominal)	Cooling	W	23.00		28.00	
		Heating		23.00		28.00	
	Current Input (Nominal)	Cooling	A	0.22		0.27	
		Heating		0.22		0.27	
Fan	Motor	Type	–	Turbo Fan		Turbo Fan	
		Output x n	w	65 x 1		65 x 1	
	Air Flow Rate	H/M/L (UL)	CMM	11.50 / 10.20 / 9.00		13.00 / 11.00 / 9.50	
			l/s	191.67 / 170.00 / 150.00		216.67 / 183.33 / 158.33	
	External Pressure	Min/Std/Max	mmAq	–		–	
			Pa	–		–	
Piping Connections	Liquid Pipe		Ø, mm	6.35		6.35	
			Ø, inch	1/4"		1/4"	
	Gas Pipe		Ø, mm	12.70		12.70	
			Ø, inch	1/2"		1/2"	
	Drain Pipe		Ø, mm	VP25 (OD 32,ID 25)		VP25 (OD 32,ID 25)	
Field Wiring	Power Source Wire		mm²	1.5 – 2.5		1.5 – 2.5	
	Transmission Cable		mm²	0.75 – 1.50		0.75 – 1.50	
Refrigerant	Type		–	R410A		R410A	
	Control Method		–	EEV(O)		EEV(O)	
Sound	Pressure	High / Mid / Low	dB(A)	36.0 / 34.0 / 32.0		39.0 / 36.0 / 33.0	
	Power	Cooling		53.0		56.0	
Dimension	Net Weight		kg	12.00		12.00	
	Shipping Weight		kg	14.00		14.00	
	Net Dimensions (WxHxD)		mm	575 x 250 x 575		575 x 250 x 575	
	Shipping Dimensions (WxHxD)		mm	623 x 298 x 653		623 x 298 x 653	
Panel Size	Panel model		–	PC4SUSMAN		PC4SUSMAN	
	Panel Net Weight		kg	2.70		2.70	
	Shipping Weight		kg	4.20		4.20	
	Net Dimensions (WxHxD)		mm	670 x 45 x 670		670 x 45 x 670	
	Shipping Dimensions (WxHxD)		mm	714 x 106 x 724		714 x 106 x 724	
Additional Accessories	Drain Pump	Drain Pump	– / Model	–		–	
		Max. lifting Height / Displacement	mm/liter/h	–		–	
	Air Filter		–	–		–	

- Mode : HP(Heat Pump), HR(Heat Recovery)

- Nominal Cooling : Indoor temperature 27 °CDB / 19 °CWB, Outdoor temperature 35 °CDB/24 °CWB, Refrigerant pipe length 7.5m, Level difference 0m.

- Nominal Heating : Indoor temperature 20 °CDB/15 °CWB, Outdoor temperature 7 °CDB / 6 °CWB, Refrigerant pipe length 7.5m, Level difference 0m.

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

- These products contain R410A which is fluorinated greenhouse gas.

- Specifications may be subject to change without prior notice.

1 Specifications

4Way Cassette S (600 x 600)

Type				4Way Cassette (600 x 600)	
Model				AM060FNNDEH/EU	
Power Supply			Ø, #, V, Hz	1,2,220–240,50	
Mode			–	HP/HR	
Performance	Capacity (Nominal)	Cooling	kW	6.00	
			Btu/h	20,500	
		Heating	kW	6.80	
			Btu/h	23,200	
Power	Power Input (Nominal)	Cooling	W	31.00	
		Heating		31.00	
	Current Input (Nominal)	Cooling	A	0.30	
		Heating		0.30	
Fan	Motor	Type	–	Turbo Fan	
		Output x n	w	65 x 1	
	Air Flow Rate	H/M/L (UL)	CMM	13.50 / 12.00 / 10.20	
			l/s	225.00 / 200.00 / 170.00	
	External Pressure	Min/Std/Max	mmAq	–	
			Pa	–	
Piping Connections	Liquid Pipe		Ø, mm	6.35	
			Ø, inch	1/4"	
	Gas Pipe		Ø, mm	12.70	
			Ø, inch	1/2"	
	Drain Pipe		Ø, mm	VP25 (OD 32,ID 25)	
Field Wiring	Power Source Wire		mm²	1.5 – 2.5	
	Transmission Cable		mm²	0.75 – 1.50	
Refrigerant	Type		–	R410A	
	Control Method		–	EEV(O)	
Sound	Pressure	High / Mid / Low	dB(A)	40.0 / 38.0 / 35.0	
	Power	Cooling		57.0	
Dimension	Net Weight		kg	12.00	
	Shipping Weight		kg	14.00	
	Net Dimensions (WxHxD)		mm	575 x 250 x 575	
	Shipping Dimensions (WxHxD)		mm	623 x 298 x 653	
Panel Size	Panel model		–	PC4SUSMAN	
	Panel Net Weight		kg	2.70	
	Shipping Weight		kg	4.20	
	Net Dimensions (WxHxD)		mm	670 x 45 x 670	
	Shipping Dimensions (WxHxD)		mm	714 x 106 x 724	
Additional Accessories	Drain Pump	Drain Pump	– / Model	–	
		Max. lifting Height / Displacement	mm/liter/h	–	
	Air Filter		–	–	

- Mode : HP(Heat Pump), HR(Heat Recovery)

- Nominal Cooling : Indoor temperature 27°CDB / 19°CWB, Outdoor temperature 35°CDB/24°CWB, Refrigerant pipe length 7.5m, Level difference 0m.

- Nominal Heating : Indoor temperature 20°CDB/15°CWB, Outdoor temperature 7°CDB / 6°CWB, Refrigerant pipe length 7.5m, Level difference 0m.

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

- These products contain R410A which is fluorinated greenhouse gas.

- Specifications may be subject to change without prior notice.

2 Capacity table

4Way Cassette S (600 x 600)

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity

Model	Outdoor temperature (°C, DB)	Indoor temperature (°C, WB)													
		14.0		16.0		18.0		19.0		20.0		22.0		24.0	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
1.50	10	1.00	0.90	1.20	1.00	1.40	1.10	1.50	1.00	1.60	1.00	1.70	1.00	1.90	1.00
	12	1.00	0.90	1.20	1.00	1.40	1.10	1.50	1.00	1.60	1.00	1.70	1.00	1.80	1.00
	14	1.00	0.90	1.20	1.00	1.40	1.10	1.50	1.00	1.60	1.00	1.70	1.00	1.80	1.00
	16	1.00	0.90	1.20	1.00	1.40	1.10	1.50	1.00	1.60	1.00	1.70	1.00	1.80	1.00
	18	1.00	0.90	1.20	1.00	1.40	1.10	1.50	1.00	1.60	1.00	1.70	1.00	1.80	1.00
	20	1.00	0.90	1.20	1.00	1.40	1.10	1.50	1.00	1.60	1.00	1.70	1.00	1.80	1.00
	21	1.00	0.90	1.20	1.00	1.40	1.10	1.50	1.00	1.60	1.00	1.70	1.00	1.80	1.00
	23	1.00	0.90	1.20	1.00	1.40	1.10	1.50	1.00	1.60	1.00	1.70	1.00	1.80	1.00
	25	1.00	0.90	1.20	1.00	1.40	1.10	1.50	1.00	1.60	1.00	1.70	1.00	1.80	1.00
	27	1.00	0.90	1.20	1.00	1.40	1.10	1.50	1.00	1.60	1.00	1.70	1.00	1.80	1.00
	29	1.00	0.90	1.20	1.00	1.40	1.10	1.50	1.00	1.60	1.00	1.70	1.00	1.80	1.00
	31	1.00	0.90	1.20	1.00	1.40	1.10	1.50	1.00	1.60	1.00	1.70	1.00	1.80	1.00
	33	1.00	0.90	1.20	1.00	1.40	1.10	1.50	1.00	1.60	1.00	1.70	1.00	1.80	1.00
	35	1.00	0.90	1.20	1.00	1.40	1.10	1.50	1.00	1.60	1.00	1.70	1.00	1.80	1.00
	37	1.00	0.90	1.20	1.00	1.40	1.10	1.50	1.00	1.60	1.00	1.70	1.00	1.80	1.00
	39	1.00	0.90	1.20	1.00	1.40	1.10	1.50	1.00	1.60	1.00	1.60	1.00	1.70	1.00
	42	1.00	0.90	1.20	1.00	1.40	1.10	1.40	1.00	1.50	1.00	1.60	1.00	1.70	1.00
	44	1.00	0.90	1.20	1.00	1.40	1.10	1.40	1.00	1.50	1.00	1.60	1.00	1.60	1.00
2.20	10	1.50	1.30	1.80	1.40	2.10	1.50	2.20	1.50	2.30	1.50	2.50	1.60	2.60	1.40
	12	1.50	1.30	1.80	1.40	2.10	1.50	2.20	1.50	2.30	1.50	2.50	1.60	2.60	1.40
	14	1.50	1.30	1.80	1.40	2.10	1.50	2.20	1.50	2.30	1.50	2.50	1.60	2.60	1.40
	16	1.50	1.30	1.80	1.40	2.10	1.50	2.20	1.50	2.30	1.50	2.40	1.50	2.60	1.40
	18	1.50	1.30	1.80	1.40	2.10	1.50	2.20	1.50	2.30	1.50	2.40	1.50	2.60	1.40
	20	1.50	1.30	1.80	1.40	2.10	1.50	2.20	1.50	2.30	1.50	2.40	1.50	2.60	1.40
	21	1.50	1.30	1.80	1.40	2.10	1.50	2.20	1.50	2.30	1.50	2.40	1.50	2.60	1.40
	23	1.50	1.30	1.80	1.40	2.10	1.50	2.20	1.50	2.30	1.50	2.40	1.50	2.60	1.40
	25	1.50	1.30	1.80	1.40	2.10	1.50	2.20	1.50	2.30	1.50	2.40	1.50	2.60	1.40
	27	1.50	1.30	1.80	1.40	2.10	1.50	2.20	1.50	2.30	1.50	2.40	1.50	2.60	1.40
	29	1.50	1.30	1.80	1.40	2.10	1.50	2.20	1.50	2.30	1.50	2.40	1.50	2.60	1.40
	31	1.50	1.30	1.80	1.40	2.10	1.50	2.20	1.50	2.30	1.50	2.40	1.50	2.60	1.40
	33	1.50	1.30	1.80	1.40	2.10	1.50	2.20	1.50	2.30	1.50	2.40	1.50	2.60	1.40
	35	1.50	1.30	1.80	1.40	2.10	1.50	2.20	1.50	2.30	1.50	2.40	1.50	2.60	1.40
	37	1.50	1.30	1.80	1.40	2.10	1.50	2.20	1.50	2.30	1.50	2.40	1.50	2.60	1.40
	39	1.50	1.30	1.80	1.40	2.10	1.50	2.20	1.50	2.30	1.50	2.40	1.50	2.50	1.30
	42	1.50	1.30	1.80	1.40	2.10	1.50	2.10	1.40	2.20	1.40	2.30	1.40	2.40	1.20
	44	1.50	1.30	1.80	1.40	2.00	1.40	2.10	1.40	2.10	1.30	2.20	1.40	2.20	1.10
2.80	10	1.90	1.70	2.30	1.80	2.60	2.00	2.80	2.00	2.90	2.00	3.10	2.00	3.40	1.90
	12	1.90	1.70	2.30	1.80	2.60	2.00	2.80	2.00	2.90	2.00	3.10	2.00	3.30	1.80
	14	1.90	1.70	2.30	1.80	2.60	2.00	2.80	2.00	2.90	2.00	3.10	2.00	3.30	1.80
	16	1.90	1.70	2.30	1.80	2.60	2.00	2.80	2.00	2.90	2.00	3.10	2.00	3.30	1.80
	18	1.90	1.70	2.30	1.80	2.60	2.00	2.80	2.00	2.90	2.00	3.10	2.00	3.30	1.80
	20	1.90	1.70	2.30	1.80	2.60	2.00	2.80	2.00	2.90	2.00	3.10	2.00	3.30	1.80
	21	1.90	1.70	2.30	1.80	2.60	2.00	2.80	2.00	2.90	2.00	3.10	2.00	3.30	1.80
	23	1.90	1.70	2.30	1.80	2.60	2.00	2.80	2.00	2.90	2.00	3.10	2.00	3.30	1.80
	25	1.90	1.70	2.30	1.80	2.60	2.00	2.80	2.00	2.90	2.00	3.10	2.00	3.30	1.80
	27	1.90	1.70	2.30	1.80	2.60	2.00	2.80	2.00	2.90	2.00	3.10	2.00	3.30	1.80
	29	1.90	1.70	2.30	1.80	2.60	2.00	2.80	2.00	2.90	2.00	3.10	2.00	3.30	1.80
	31	1.90	1.70	2.30	1.80	2.60	2.00	2.80	2.00	2.90	2.00	3.10	2.00	3.30	1.80
	33	1.90	1.70	2.30	1.80	2.60	2.00	2.80	2.00	2.90	2.00	3.10	2.00	3.30	1.80
	35	1.90	1.70	2.30	1.80	2.60	2.00	2.80	2.00	2.90	2.00	3.10	2.00	3.30	1.80
	37	1.90	1.70	2.30	1.80	2.60	2.00	2.80	2.00	2.90	2.00	3.10	2.00	3.30	1.80
	39	1.90	1.70	2.30	1.80	2.60	2.00	2.80	2.00	2.90	1.90	3.00	1.90	3.20	1.80
	42	1.90	1.70	2.30	1.80	2.60	2.00	2.70	1.90	2.80	1.90	2.90	1.80	3.00	1.70
	44	1.90	1.70	2.30	1.80	2.50	1.90	2.70	1.90	2.70	1.80	2.70	1.70	2.80	1.60
3.60	10	2.50	2.10	2.90	2.20	3.40	2.40	3.60	2.50	3.70	2.50	4.00	2.50	4.30	2.30
	12	2.50	2.10	2.90	2.20	3.40	2.40	3.60	2.50	3.70	2.50	4.00	2.50	4.30	2.30
	14	2.50	2.10	2.90	2.20	3.40	2.40	3.60	2.50	3.70	2.50	4.00	2.50	4.30	2.30
	16	2.50	2.10	2.90	2.20	3.40	2.40	3.60	2.50	3.70	2.50	4.00	2.50	4.30	2.30
	18	2.50	2.10	2.90	2.20	3.40	2.40	3.60	2.50	3.70	2.50	4.00	2.50	4.30	2.30
	20	2.50	2.10	2.90	2.20	3.40	2.40	3.60	2.50	3.70	2.50	4.00	2.50	4.20	2.30
	21	2.50	2.10	2.90	2.20	3.40	2.40	3.60	2.50	3.70	2.50	4.00	2.50	4.20	2.30
	23	2.50	2.10	2.90	2.20	3.40	2.40	3.60	2.50	3.70	2.50	4.00	2.50	4.20	2.30
	25	2.50	2.10	2.90	2.20	3.40	2.40	3.60	2.50	3.70	2.50	4.00	2.50	4.20	2.30
	27	2.50	2.10	2.90	2.20	3.40	2.40	3.60	2.50	3.70	2.50	4.00	2.50	4.20	2.30
	29	2.50	2.10	2.90	2.20	3.40	2.40	3.60	2.50	3.70	2.50	4.00	2.50	4.20	2.30
	31	2.50	2.10	2.90	2.20	3.40	2.40	3.60	2.50	3.70	2.50	4.00	2.50	4.20	2.30
	33	2.50	2.10	2.90	2.20	3.40	2.40	3.60	2.50	3.70	2.50	4.00	2.50	4.20	2.30
	35	2.50	2.10	2.90	2.20	3.40	2.40	3.60	2.50	3.70	2.50	4.00	2.50	4.20	2.30
	37	2.50	2.10	2.90	2.20	3.40	2.40	3.60	2.50	3.70	2.50	3.90	2.40	4.20	2.30
	39	2.50	2.10	2.90	2.20	3.40	2.40	3.60	2.50	3.70	2.50	3.90	2.40	4.10	2.20
	42	2.50	2.10	2.90	2.20	3.40	2.40	3.50	2.40	3.60	2.40	3.70	2.30	3.90	2.10
	44	2.50	2.10	2.90	2.20	3.20	2.30	3.40	2.30	3.50	2.30	3.50	2.20	3.60	2.00
4.50	10	3.10	2.70	3.70	2.80	4.20	3.00	4.50	3.10	4.70	3.10	5.00	3.10	5.40	2.90
	12	3.10	2.70	3.70	2.80	4.20	3.00	4.50	3.10	4.70	3.10	5.00	3.10	5.40	2.90
	14	3.10	2.70	3.70	2.80	4.20	3.00	4.50	3.10	4.70	3.10	5.00	3.10	5.40	2.90
	16	3.10	2.70	3.70	2.80	4.20	3.00	4.50	3.10	4.70	3.10	5.00	3.10	5.30	2.80
	18	3.10	2.70	3.70	2.80	4.20	3.00	4.50	3.10	4.70	3.10	5.00	3.10	5.30	2.80
	20	3.10	2.70	3.70	2.80	4.20	3.00	4.50	3.10	4.70	3.10	5.00	3.10	5.30	2.80
	21	3.10	2.70	3.70	2.80	4.20	3.00	4.50	3.10	4.70	3.10	5.00	3.10	5.30	2.80
	23	3.10	2.70	3.70	2.80	4.20	3.00	4.50	3.10	4.70	3.10	5.00	3.10	5.30	2.80
	25	3.10	2.70	3.70	2.80	4.20	3.00	4.50	3.10	4.70	3.10	5.00	3.10	5.30	2.80
	27	3.10	2.70	3.70	2.80	4.20	3.00	4.50	3.10	4.70	3.10	5.00	3.10	5.30	2.80
	29	3.10	2.70	3.70	2.80	4.20	3.00	4.50	3.10	4.70	3.10	5.00	3.10	5.30	2.80
	31	3.10	2.70	3.70	2.80	4.20	3.00	4.50	3.10	4.70	3.10	5.00	3.10	5.30	2.80
	33	3.10	2.70	3.70	2.80	4.20	3.00	4.50	3.10	4.70	3.10	5.00	3.10	5.30	2.80
	35	3.10	2.70	3.70	2.80	4.20	3.00	4.50	3.10	4.70	3.10	5.00	3.10	5.30	2.80
	37	3.10	2.70	3.70	2.80	4.20	3.00	4.50	3.10	4.60	3.00	4.90	3.00	5.20	2.70
	39	3.10	2.70	3.70	2.80	4.20	3.00	4.50	3.10	4.60	3.00	4.90	3.00	5.10	2.60
	42	3.10	2.70	3.											

2 Capacity table

4Way Cassette S (600 x 600)

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity

Model	Outdoor temperature (°C, DB)	Indoor temperature (°C, WB)													
		14.0		16.0		18.0		19.0		20.0		22.0		24.0	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
5.60	10	3.90	3.30	4.60	3.80	5.30	4.10	5.60	4.20	5.80	4.20	6.30	4.30	6.70	4.10
	12	3.90	3.30	4.60	3.80	5.30	4.10	5.60	4.20	5.80	4.20	6.30	4.30	6.70	4.10
	14	3.90	3.30	4.60	3.80	5.30	4.10	5.60	4.20	5.80	4.20	6.20	4.20	6.70	4.00
	16	3.90	3.30	4.60	3.80	5.30	4.10	5.60	4.20	5.80	4.20	6.20	4.20	6.60	4.00
	18	3.90	3.30	4.60	3.80	5.30	4.10	5.60	4.20	5.80	4.20	6.20	4.20	6.60	4.00
	20	3.90	3.30	4.60	3.80	5.30	4.10	5.60	4.20	5.80	4.20	6.20	4.20	6.60	4.00
	21	3.90	3.30	4.60	3.80	5.30	4.10	5.60	4.20	5.80	4.20	6.20	4.20	6.60	4.00
	23	3.90	3.30	4.60	3.80	5.30	4.10	5.60	4.20	5.80	4.20	6.20	4.20	6.60	4.00
	25	3.90	3.30	4.60	3.80	5.30	4.10	5.60	4.20	5.80	4.20	6.20	4.20	6.60	4.00
	27	3.90	3.30	4.60	3.80	5.30	4.10	5.60	4.20	5.80	4.20	6.20	4.20	6.60	4.00
	29	3.90	3.30	4.60	3.80	5.30	4.10	5.60	4.20	5.80	4.20	6.20	4.20	6.60	4.00
	31	3.90	3.30	4.60	3.80	5.30	4.10	5.60	4.20	5.80	4.20	6.20	4.20	6.60	4.00
	33	3.90	3.30	4.60	3.80	5.30	4.10	5.60	4.20	5.80	4.20	6.20	4.20	6.60	4.00
	35	3.90	3.30	4.60	3.80	5.30	4.10	5.60	4.20	5.80	4.20	6.20	4.20	6.60	4.00
	37	3.90	3.30	4.60	3.80	5.30	4.10	5.60	4.20	5.80	4.20	6.10	4.10	6.50	3.90
	39	3.90	3.30	4.60	3.80	5.30	4.10	5.60	4.20	5.80	4.20	6.10	4.10	6.40	3.80
	42	3.90	3.30	4.60	3.80	5.30	4.10	5.40	4.10	5.60	4.10	5.80	3.90	6.00	3.60
	44	3.90	3.30	4.60	3.80	5.00	4.00	5.30	4.00	5.40	4.00	5.50	3.80	5.60	3.40
6.00	10	4.10	3.50	4.90	4.00	5.60	4.50	6.00	4.50	6.20	4.50	6.70	4.60	7.20	4.40
	12	4.10	3.50	4.90	4.00	5.60	4.50	6.00	4.50	6.20	4.50	6.70	4.60	7.20	4.40
	14	4.10	3.50	4.90	4.00	5.60	4.50	6.00	4.50	6.20	4.50	6.70	4.60	7.10	4.30
	16	4.10	3.50	4.90	4.00	5.60	4.50	6.00	4.50	6.20	4.50	6.70	4.60	7.10	4.30
	18	4.10	3.50	4.90	4.00	5.60	4.50	6.00	4.50	6.20	4.50	6.70	4.60	7.10	4.30
	20	4.10	3.50	4.90	4.00	5.60	4.50	6.00	4.50	6.20	4.50	6.60	4.50	7.10	4.30
	21	4.10	3.50	4.90	4.00	5.60	4.50	6.00	4.50	6.20	4.50	6.60	4.50	7.10	4.30
	23	4.10	3.50	4.90	4.00	5.60	4.50	6.00	4.50	6.20	4.50	6.60	4.50	7.10	4.30
	25	4.10	3.50	4.90	4.00	5.60	4.50	6.00	4.50	6.20	4.50	6.60	4.50	7.10	4.30
	27	4.10	3.50	4.90	4.00	5.60	4.50	6.00	4.50	6.20	4.50	6.60	4.50	7.10	4.30
	29	4.10	3.50	4.90	4.00	5.60	4.50	6.00	4.50	6.20	4.50	6.60	4.50	7.10	4.30
	31	4.10	3.50	4.90	4.00	5.60	4.50	6.00	4.50	6.20	4.50	6.60	4.50	7.10	4.30
	33	4.10	3.50	4.90	4.00	5.60	4.50	6.00	4.50	6.20	4.50	6.60	4.50	7.10	4.30
	35	4.10	3.50	4.90	4.00	5.60	4.50	6.00	4.50	6.20	4.50	6.60	4.50	7.10	4.30
	37	4.10	3.50	4.90	4.00	5.60	4.50	6.00	4.50	6.20	4.50	6.60	4.50	7.00	4.20
	39	4.10	3.50	4.90	4.00	5.60	4.50	6.00	4.50	6.20	4.50	6.50	4.40	6.80	4.10
	42	4.10	3.50	4.90	4.00	5.60	4.50	5.80	4.40	6.10	4.40	6.30	4.30	6.40	3.80
	44	4.10	3.50	4.90	4.00	5.40	4.40	5.70	4.30	5.80	4.30	5.90	4.20	6.00	3.60

2 Capacity table

4Way Cassette S (600 x 600)

Heating

TC : Total Capacity

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
1.50	-20	-21	1.00	1.00	1.00	1.00	0.90
	-17	-18	1.00	1.00	1.00	1.00	0.90
	-15	-16	1.10	1.10	1.00	1.00	0.90
	-12	-13	1.10	1.10	1.10	1.10	1.00
	-10	-11	1.20	1.20	1.20	1.20	1.10
	-7	-8	1.30	1.30	1.30	1.30	1.20
	-5	-6	1.40	1.40	1.30	1.30	1.20
	-3	-4	1.40	1.40	1.40	1.30	1.30
	0	-1	1.50	1.50	1.50	1.40	1.40
	3	2	1.50	1.50	1.50	1.40	1.40
	5	4	1.60	1.60	1.60	1.50	1.40
	7	6	1.70	1.70	1.70	1.60	1.40
	9	8	1.80	1.70	1.70	1.60	1.40
	11	10	1.80	1.70	1.70	1.60	1.40
	13	12	2.00	1.80	1.70	1.60	1.40
	15	14	2.10	1.80	1.70	1.60	1.40
2.20	-20	-21	1.50	1.50	1.50	1.50	1.50
	-17	-18	1.60	1.60	1.60	1.60	1.60
	-15	-16	1.70	1.60	1.60	1.60	1.60
	-12	-13	1.80	1.80	1.80	1.80	1.70
	-10	-11	2.00	2.00	1.90	1.90	1.90
	-7	-8	2.30	2.20	2.20	2.00	2.00
	-5	-6	2.40	2.30	2.30	2.20	2.20
	-3	-4	2.50	2.50	2.40	2.30	2.20
	0	-1	2.60	2.50	2.50	2.30	2.20
	3	2	2.70	2.60	2.50	2.30	2.20
	5	4	2.80	2.70	2.50	2.30	2.20
	7	6	2.80	2.70	2.50	2.30	2.20
	9	8	3.00	2.70	2.50	2.30	2.20
	11	10	3.00	2.70	2.50	2.30	2.20
	13	12	3.00	2.70	2.50	2.30	2.20
	15	14	3.00	2.70	2.50	2.30	2.20
2.80	-20	-21	1.90	1.90	1.90	1.90	1.90
	-17	-18	2.00	2.00	2.00	2.00	1.90
	-15	-16	2.10	2.10	2.00	2.00	1.90
	-12	-13	2.20	2.20	2.20	2.10	2.10
	-10	-11	2.30	2.30	2.30	2.30	2.20
	-7	-8	2.50	2.40	2.40	2.40	2.30
	-5	-6	2.60	2.60	2.50	2.50	2.40
	-3	-4	2.80	2.70	2.70	2.60	2.50
	0	-1	2.90	2.80	2.80	2.70	2.60
	3	2	3.00	3.00	2.90	2.80	2.70
	5	4	3.20	3.10	3.10	2.90	2.70
	7	6	3.30	3.20	3.20	3.00	2.70
	9	8	3.40	3.30	3.20	3.00	2.70
	11	10	3.50	3.30	3.20	3.00	2.70
	13	12	3.60	3.40	3.20	3.00	2.70
	15	14	3.70	3.40	3.20	3.00	2.70
3.60	-20	-21	2.40	2.40	2.30	2.30	2.30
	-17	-18	2.60	2.50	2.40	2.40	2.30
	-15	-16	2.70	2.60	2.50	2.50	2.40
	-12	-13	2.80	2.70	2.70	2.60	2.60
	-10	-11	2.90	2.90	2.90	2.80	2.80
	-7	-8	3.10	3.10	3.00	3.00	2.90
	-5	-6	3.30	3.20	3.20	3.10	3.00
	-3	-4	3.40	3.40	3.30	3.20	3.10
	0	-1	3.60	3.60	3.50	3.40	3.20
	3	2	3.80	3.70	3.70	3.50	3.40
	5	4	3.90	3.90	3.80	3.60	3.40
	7	6	4.10	4.10	4.00	3.70	3.40
	9	8	4.20	4.10	4.00	3.70	3.40
	11	10	4.40	4.20	4.00	3.70	3.40
	13	12	4.50	4.20	4.00	3.70	3.40
	15	14	4.60	4.30	4.00	3.70	3.40
4.50	-20	-21	3.10	3.10	2.90	2.90	2.90
	-17	-18	3.20	3.20	3.10	3.00	3.00
	-15	-16	3.30	3.30	3.20	3.10	3.00
	-12	-13	3.50	3.40	3.40	3.30	3.20
	-10	-11	3.70	3.60	3.60	3.50	3.50
	-7	-8	3.90	3.80	3.80	3.70	3.60
	-5	-6	4.10	4.00	4.00	3.90	3.70
	-3	-4	4.30	4.20	4.20	4.00	3.90
	0	-1	4.50	4.40	4.40	4.20	4.00
	3	2	4.68	4.68	4.60	4.44	4.21
	5	4	4.92	4.84	4.76	4.52	4.21
	7	6	5.10	5.10	5.00	4.60	4.20
	9	8	5.30	5.20	5.00	4.60	4.20
	11	10	5.50	5.20	5.00	4.60	4.20
	13	12	5.60	5.30	5.00	4.60	4.20
	15	14	5.80	5.40	5.00	4.60	4.20
5.60	-20	-21	3.90	3.80	3.80	3.70	3.70
	-17	-18	4.00	4.00	3.90	3.80	3.80
	-15	-16	4.20	4.10	4.00	3.90	3.80
	-12	-13	4.40	4.30	4.20	4.20	4.10
	-10	-11	4.60	4.60	4.50	4.40	4.40
	-7	-8	4.90	4.80	4.80	4.70	4.50
	-5	-6	5.20	5.10	5.00	4.90	4.70
	-3	-4	5.40	5.30	5.30	5.10	4.90
	0	-1	5.70	5.60	5.50	5.30	5.00
	3	2	5.90	5.90	5.80	5.60	5.30

2 Capacity table

4Way Cassette S (600 x 600)

Heating

TC : Total Capacity

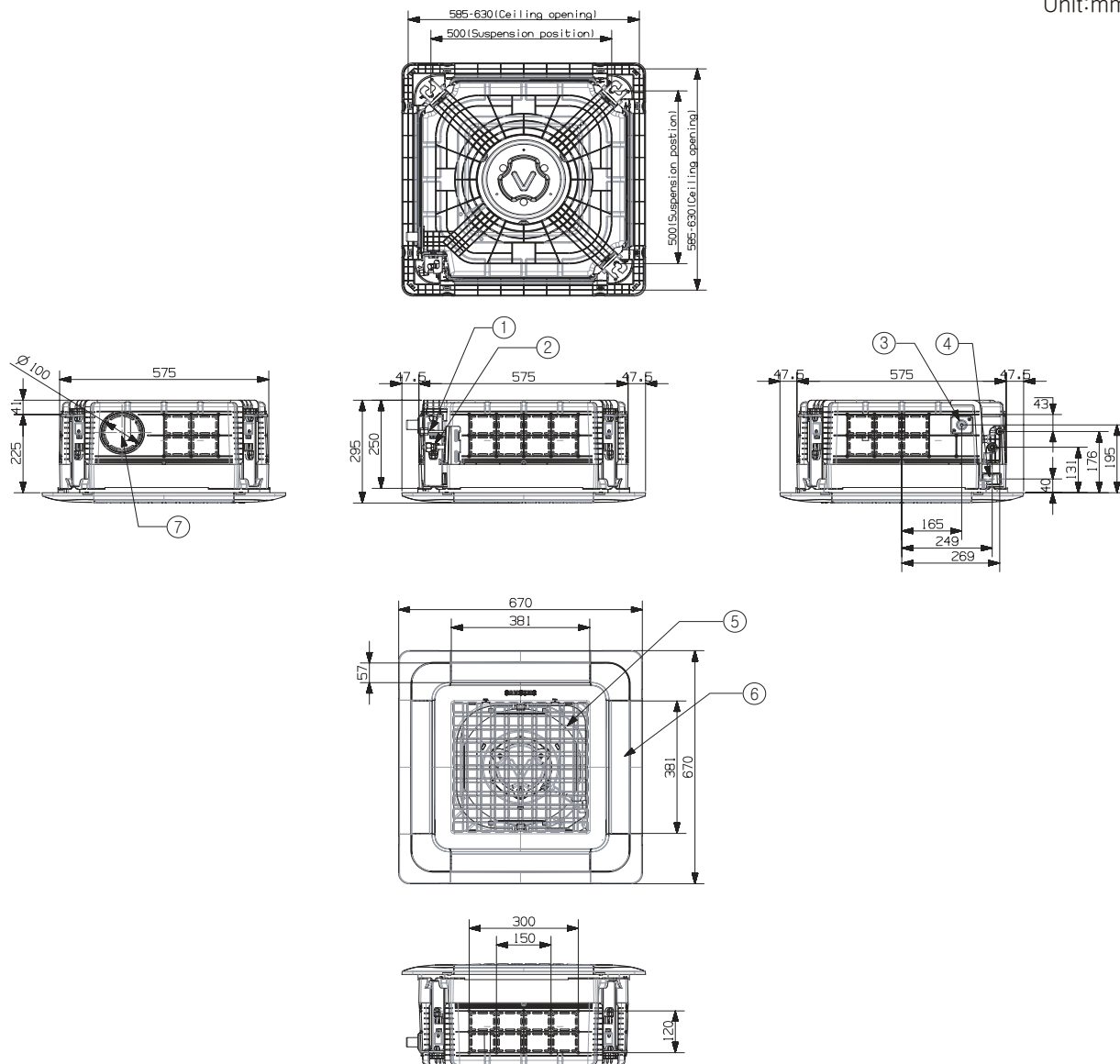
Model	Outdoor temperature (°C)		Indoor temperature (°C, DB)				
			16.0	18.0	20.0	22.0	24.0
	DB	WB	TC	TC	TC	TC	TC
5.60	5	4	6.20	6.10	6.00	5.70	5.30
	7	6	6.50	6.40	6.30	5.80	5.30
	9	8	6.70	6.50	6.30	5.80	5.30
	11	10	6.90	6.60	6.30	5.80	5.30
	13	12	7.10	6.70	6.30	5.80	5.30
	15	14	7.30	6.80	6.30	5.80	5.30
6.00	-20	-21	4.40	4.30	4.20	4.20	4.20
	-17	-18	4.50	4.40	4.30	4.30	4.20
	-15	-16	4.70	4.60	4.40	4.30	4.20
	-12	-13	4.90	4.80	4.70	4.60	4.50
	-10	-11	5.10	5.10	5.00	4.90	4.90
	-7	-8	5.40	5.40	5.30	5.20	5.10
	-5	-6	5.70	5.60	5.60	5.40	5.20
	-3	-4	6.00	5.90	5.90	5.60	5.40
	0	-1	6.30	6.20	6.10	5.90	5.60
	3	2	6.60	6.50	6.40	6.20	5.90
	5	4	6.90	6.80	6.70	6.30	5.90
	7	6	7.20	7.10	6.80	6.50	5.90
	9	8	7.40	7.20	6.80	6.50	5.90
	11	10	7.60	7.30	6.80	6.50	5.90
	13	12	7.90	7.40	6.80	6.50	5.90
	15	14	8.10	7.50	6.80	6.50	5.90

3) Dimensional drawing

4Way Cassette S (600 x 600)

AM015HNNDEH/EU, AM022FNNDDEH/EU, AM028FNNDDEH/EU, AM036FNNDDEH/EU, AM045FNNDDEH/EU, AM056FNNDDEH/EU, AM060FNNDDEH/EU

Unit:mm

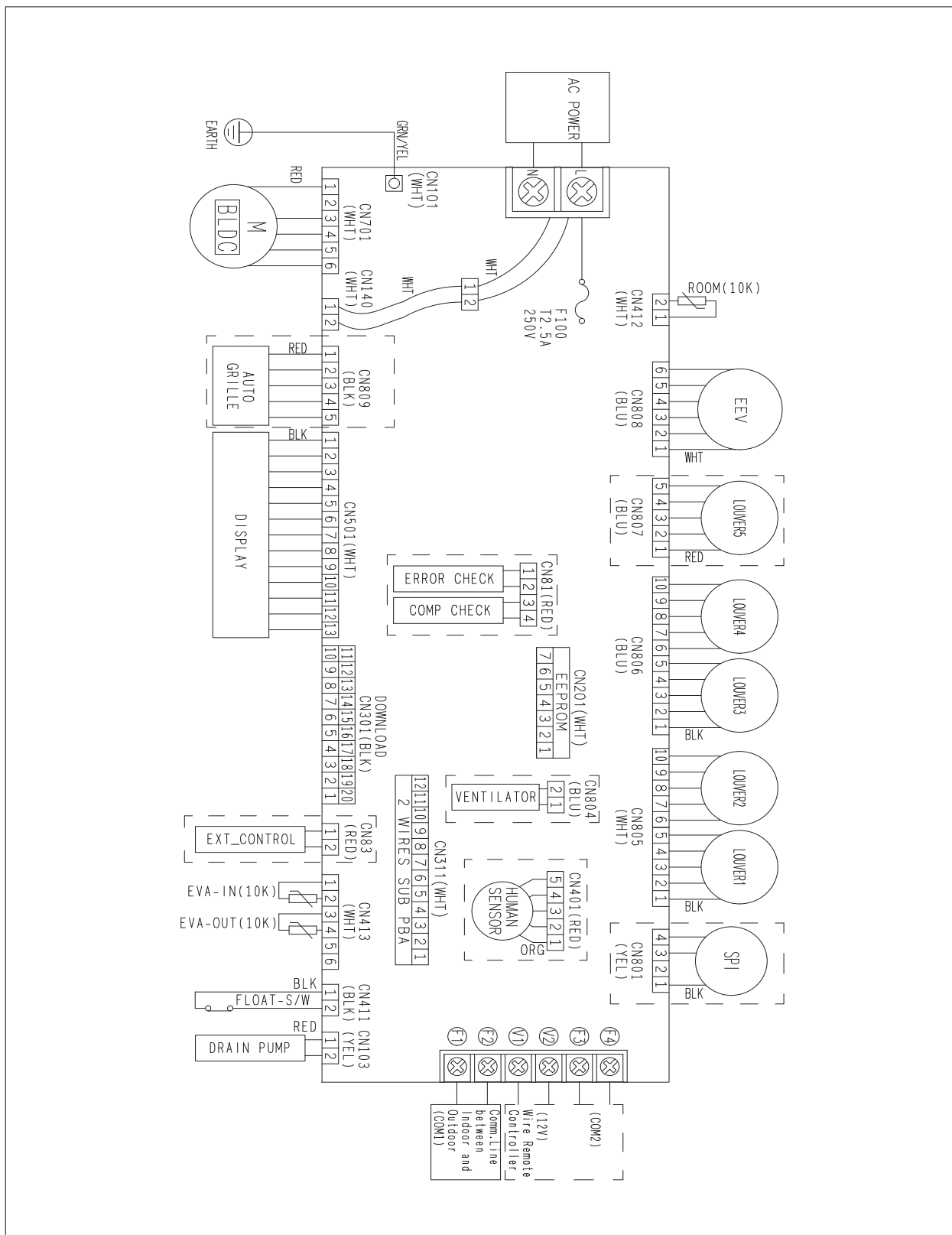


No.	Name	Description
①	Liquid pipe connection	Ø6.35mm (1/4") Flare
②	Gas pipe connection	Ø12.7mm (1/2") Flare
③	Drain pipe connection	VP25 (OD32, ID25)
④	Conduit for power supply & communication wiring	–
⑤	Air inlet grille	–
⑥	Air outlet louver	–
⑦	Fresh air intake	Ø100

4 Electrical wiring diagram

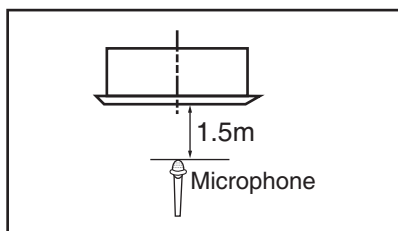
4Way Cassette S (600 x 600)

AM015HNNDEH/EU, AM022FNNDEH/EU, AM028FNNDEH/EU, AM036FNNDEH/EU, AM045FNNDEH/EU, AM056FNNDEH/EU, AM060FNNDEH/EU



5 Sound pressure level

4Way Cassette S (600 x 600)



Unit: dB(A)

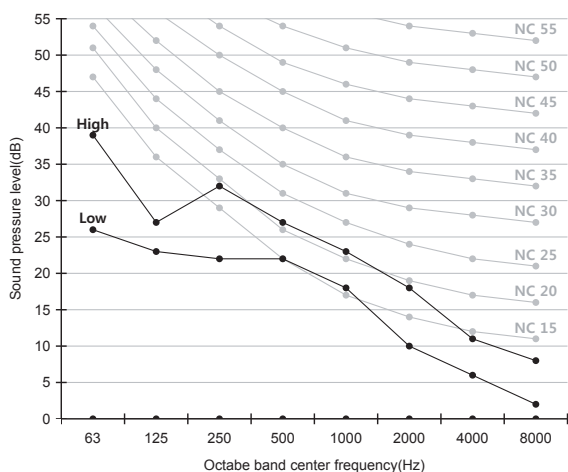
Model	High	Low
AM015HNNDEH/EU	30.0	23.0
AM022FNNDEH/EU	32.0	25.0
AM028FNNDEH/EU	33.0	26.0
AM036FNNDEH/EU	34.0	26.0

Note

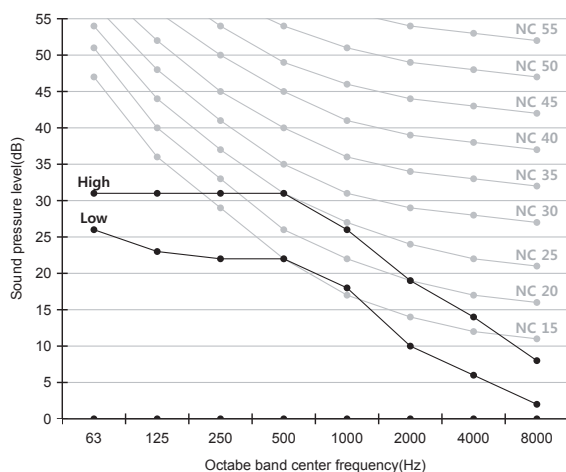
- Measuring place: Anechoic chamber (conversion value)
- These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a construction of the particular room where the equipment is installed.
- Operation sound level may differ depending on operation and ambient conditions.

NC curve

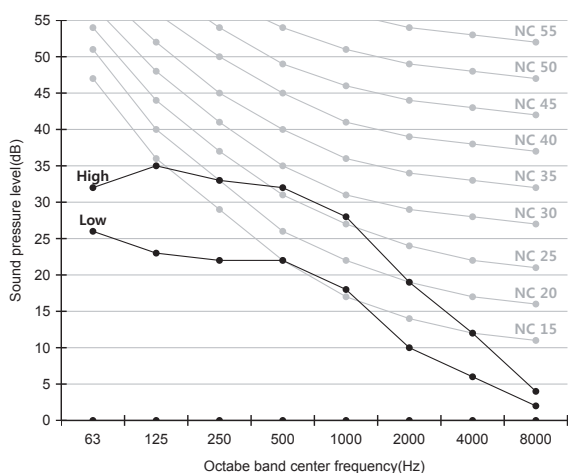
1) AM015HNNDEH/EU



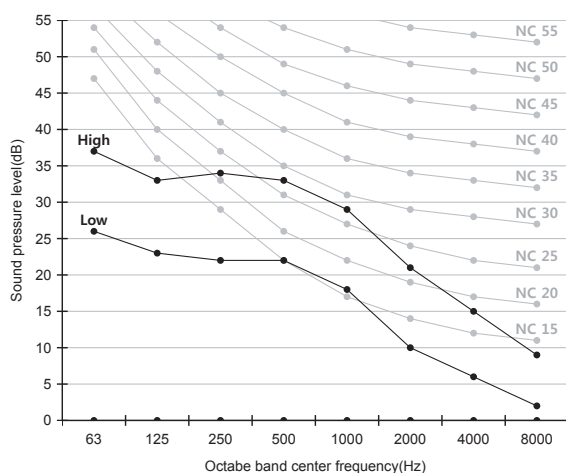
2) AM022FNNDEH/EU



3) AM028FNNDEH/EU

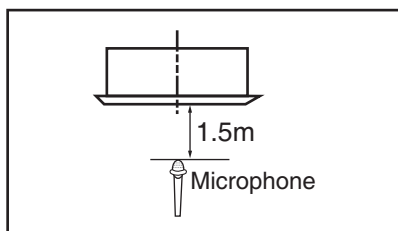


4) AM036FNNDEH/EU



5 Sound pressure level

4Way Cassette S (600 x 600)



Unit: dB(A)

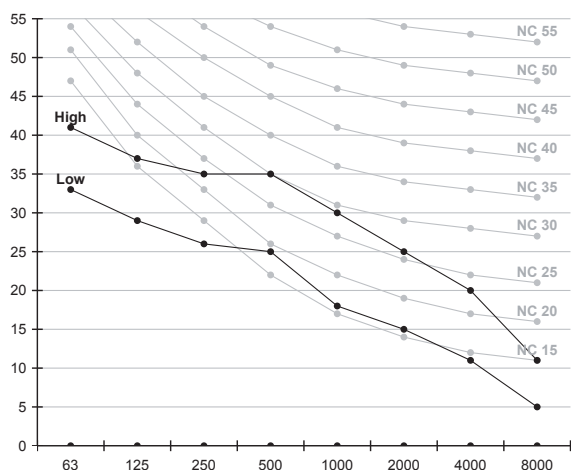
Model	High	Low
AM045FNNDEH/EU	36.0	32.0
AM056FNNDEH/EU	39.0	33.0
AM060FNNDEH/EU	40.0	35.0

Note

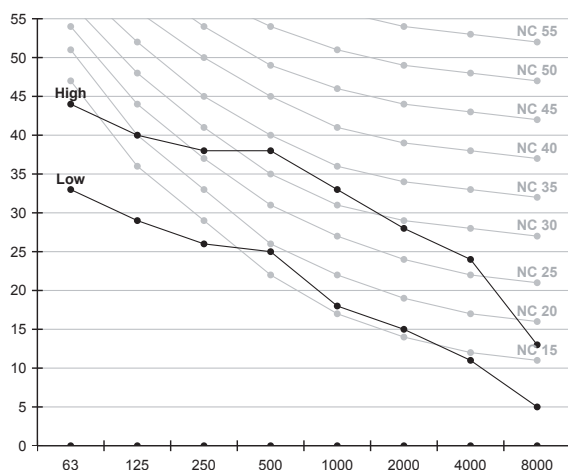
- Measuring place: Anechoic chamber (conversion value)
- These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a construction of the particular room where the equipment is installed.
- Operation sound level may differ depending on operation and ambient conditions.

NC curve

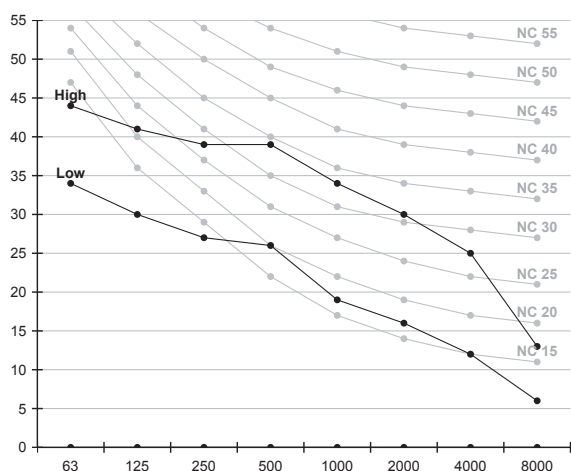
1) AM045FNNDEH/EU



2) AM056FNNDEH/EU



3) AM060FNNDEH/EU



6 Sound power level

4Way Cassette S (600 x 600)

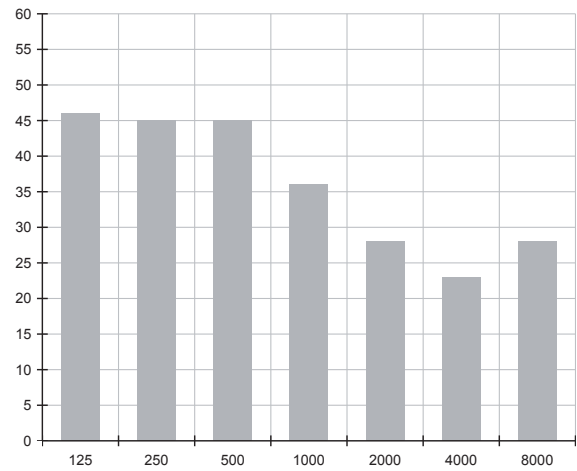
Note

- dBA = A-Weighted sound power level.
- Reference power : 1pW
- Measured according to ISO 3741.

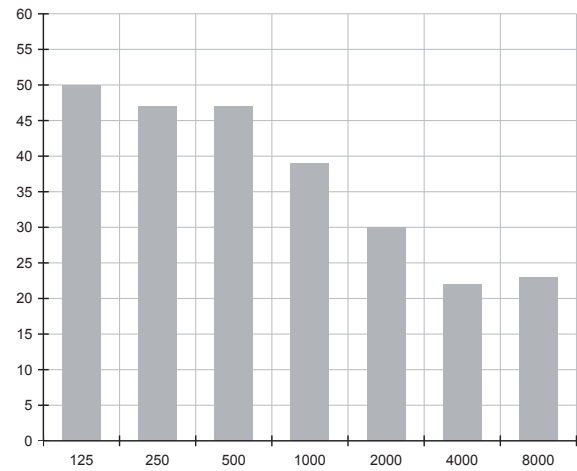
Unit: dB(A)

Model	Power
AM015HNNDEH/EU	46.0
AM022FNNDEH/EU	47.0
AM028FNNDEH/EU	50.0
AM036FNNDEH/EU	51.0

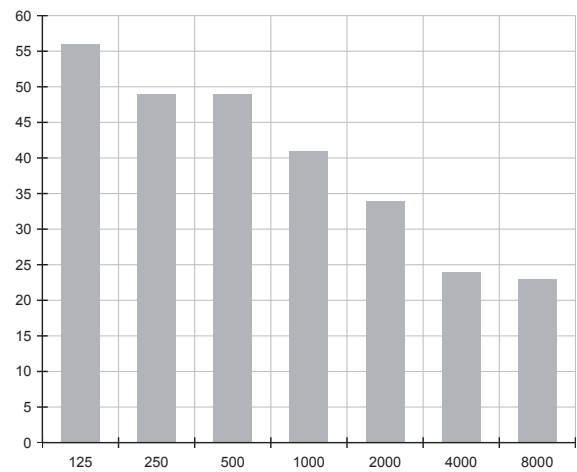
1)AM015HNNDEH/EU



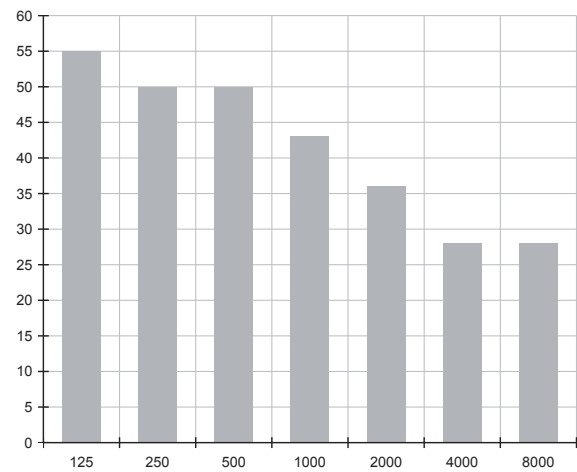
2)AM022FNNDEH/EU



3)AM028FNNDEH/EU



4)AM036FNNDEH/EU



6 Sound power level

4Way Cassette S (600 x 600)

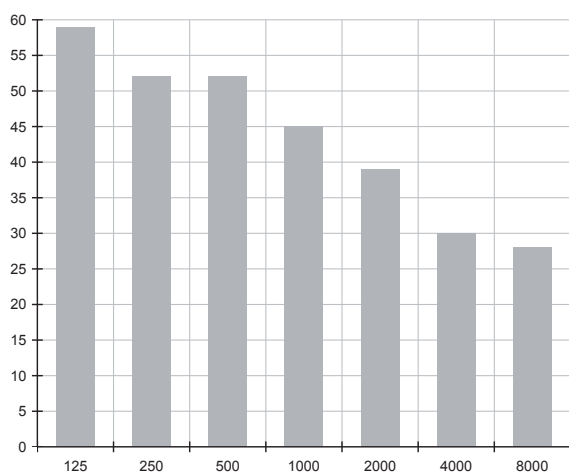
Note

- dBA = A-Weighted sound power level.
- Reference power : 1pW
- Measured according to ISO 3741.

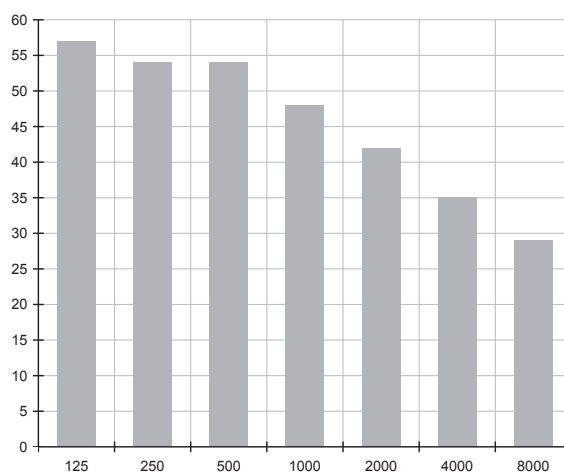
Unit: dB(A)

Model	Power
AM045FNNDEH/EU	53.0
AM056FNNDEH/EU	56.0
AM060FNNDEH/EU	57.0

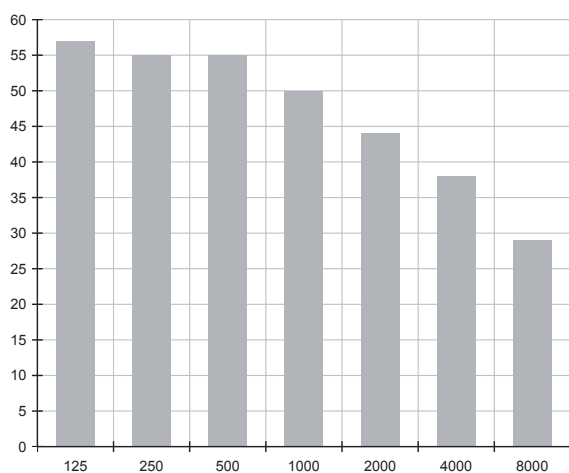
1)AM045FNNDEH/EU



2)AM056FNNDEH/EU



3)AM060FNNDEH/EU



Duct S

1 Specifications

2 Capacity table

3 Dimensional drawing

4 Electrical wiring diagram

5 Sound pressure level

6 Sound power level

7 Recommended operation range

1 Specifications

Duct S

Type				Duct S		Duct S	
Model				AM036HNMPKH/EU		AM045HNMPKH/EU	
Power Supply			Ø, #, V, Hz	1,2,220-240,50		1,2,220-240,50	
Mode			-	HP/HR		HP/HR	
Performance	Capacity (Nominal)	Cooling	kW	3.60		4.50	
			Btu/h	12,300		15,400	
		Heating	kW	4.00		5.00	
			Btu/h	13,600		17,100	
Power	Power Input (Nominal)	Cooling	W	50.00		60.00	
		Heating		50.00		60.00	
	Current Input (Nominal)	Cooling	A	0.50		0.60	
		Heating		0.50		0.60	
Fan	Motor	Type	-	Sirocco Fan		Sirocco Fan	
		Output x n	w	153 x 1		153 x 1	
	Air Flow Rate	H/M/L (UL)	CMM	12.00 / 9.50 / 8.00		14.00 / 11.00 / 8.00	
			l/s	200.00 / 158.33 / 133.33		233.33 / 183.33 / 133.33	
	External Pressure	Min/Std/Max	mmAq	0 / 2.50 / 15.00		0 / 3.00 / 15.00	
			Pa	24.50 / 147.00		29.40 / 147.00	
Piping Connections	Liquid Pipe		Ø, mm	6.35		6.35	
			Ø, inch	1/4"		1/4"	
	Gas Pipe		Ø, mm	12.70		12.70	
			Ø, inch	1/2"		1/2"	
	Drain Pipe		Ø, mm	VP25 (OD 32,ID 25)		VP25 (OD 32,ID 25)	
Field Wiring	Power Source Wire		mm²	1.5 - 2.5		1.5 - 2.5	
	Transmission Cable		mm²	0.75 - 1.50		0.75 - 1.50	
Refrigerant	Type		-	R410A		R410A	
	Control Method		-	EEV(O)		EEV(O)	
Sound	Pressure	High / Mid / Low	dB(A)	29.0 / 26.0 / 23.0		31.0 / 28.0 / 24.0	
	Power	Cooling		47.0		49.0	
Dimension	Net Weight		kg	25.50		25.50	
	Shipping Weight		kg	30.00		30.00	
	Net Dimensions (WxHxD)		mm	850 x 250 x 700		850 x 250 x 700	
	Shipping Dimensions (WxHxD)		mm	1,064 x 320 x 784		1,064 x 320 x 784	
Panel Size	Panel model		-	-		-	
	Panel Net Weight		kg	-		-	
	Shipping Weight		kg	-		-	
	Net Dimensions (WxHxD)		mm	-		-	
	Shipping Dimensions (WxHxD)		mm	-		-	
Additional Accessories	Drain Pump	Drain Pump	- / Model	MDP-G075SP		MDP-G075SP	
		Max. lifting Height / Displacement	mm/liter/h	-		-	
	Air Filter		-	-		-	

- Mode : HP(Heat Pump), HR(Heat Recovery)

- Nominal Cooling : Indoor temperature 27°CDB / 19°CWB, Outdoor temperature 35°CDB/24°CWB, Refrigerant pipe length 7.5m, Level difference 0m.

- Nominal Heating : Indoor temperature 20°CDB / 15°CWB, Outdoor temperature 7°CDB / 6°CWB, Refrigerant pipe length 7.5m, Level difference 0m.

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

- These products contain R410A which is fluorinated greenhouse gas.

- Specifications may be subject to change without prior notice.

1 Specifications

Duct S

Type				Duct S		Duct S	
Model				AM056HNMPKH/EU		AM071HNMPKH/EU	
Power Supply			Ø, #, V, Hz	1,2,220-240,50		1,2,220-240,50	
Mode			-	HP/HR		HP/HR	
Performance	Capacity (Nominal)	Cooling	kW	5.60		7.10	
			Btu/h	19,100		24,200	
		Heating	kW	6.30		8.00	
			Btu/h	21,500		27,300	
Power	Power Input (Nominal)	Cooling	W	70.00		120.00	
		Heating		70.00		120.00	
	Current Input (Nominal)	Cooling	A	0.70		1.00	
		Heating		0.70		1.00	
Fan	Motor	Type	-	Sirocco Fan		Sirocco Fan	
		Output x n	w	153 x 1		153 x 1	
	Air Flow Rate	H/M/L (UL)	CMM	16.00 / 13.50 / 11.00		22.00 / 19.00 / 16.00	
			l/s	266.67 / 225.00 / 183.33		366.67 / 316.67 / 266.67	
	External Pressure	Min/Std/Max	mmAq	0 / 3.00 / 15.00		0 / 3.00 / 15.00	
			Pa	29.40 / 147.00		29.40 / 147.00	
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		mm²	1.5 - 2.5		1.5 - 2.5	
	Transmission Cable		mm²	0.75 - 1.50		0.75 - 1.50	
Refrigerant	Type		-	R410A		R410A	
	Control Method		-	EEV(O)		EEV(O)	
Sound	Pressure	High / Mid / Low	dB(A)	32.0 / 29.0 / 25.0		37.0 / 33.0 / 29.0	
	Power	Cooling		49.0		57.0	
Dimension	Net Weight		kg	25.50		25.50	
	Shipping Weight		kg	30.00		30.00	
	Net Dimensions (WxHxD)		mm	850 x 250 x 700		850 x 250 x 700	
	Shipping Dimensions (WxHxD)		mm	1,064 x 320 x 784		1,064 x 320 x 784	
Panel Size	Panel model		-	-		-	
	Panel Net Weight		kg	-		-	
	Shipping Weight		kg	-		-	
	Net Dimensions (WxHxD)		mm	-		-	
	Shipping Dimensions (WxHxD)		mm	-		-	
Additional Accessories	Drain Pump	Drain Pump	- / Model	MDP-G075SP		MDP-G075SP	
		Max. lifting Height / Displacement	mm/liter/h	-		-	
	Air Filter		-	-		-	

- Mode : HP(Heat Pump), HR(Heat Recovery)

- Nominal Cooling : Indoor temperature 27°CDB / 19°CWB, Outdoor temperature 35°CDB/24°CWB, Refrigerant pipe length 7.5m, Level difference 0m.

- Nominal Heating : Indoor temperature 20°CDB / 15°CWB, Outdoor temperature 7°CDB / 6°CWB, Refrigerant pipe length 7.5m, Level difference 0m.

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

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- Specifications may be subject to change without prior notice.

1 Specifications

Duct S

Type				Duct S		Duct S	
Model				AM090HNMPKH/EU		AM112HNMPKH/EU	
Power Supply			Ø, #, V, Hz	1,2,220-240,50		1,2,220-240,50	
Mode			-	HP/HR		HP/HR	
Performance	Capacity (Nominal)	Cooling	kW	9.00		11.20	
			Btu/h	30,700		38,200	
		Heating	kW	10.00		12.50	
			Btu/h	34,100		42,700	
Power	Power Input (Nominal)	Cooling	W	145.00		165.00	
		Heating		145.00		165.00	
	Current Input (Nominal)	Cooling	A	1.20		1.40	
		Heating		1.20		1.40	
Fan	Motor	Type	-	Sirocco Fan		Sirocco Fan	
		Output x n	w	153 x 1		244 x 1	
	Air Flow Rate	H/M/L (UL)	CMM	29.00 / 25.00 / 22.00		35.00 / 29.00 / 22.00	
			l/s	483.33 / 416.67 / 366.67		583.33 / 483.33 / 366.67	
	External Pressure	Min/Std/Max	mmAq	0 / 4.00 / 15.00		0 / 5.20 / 15.00	
			Pa	39.20 / 147.00		50.96 / 147.00	
Piping Connections	Liquid Pipe		Ø, mm	9.52		9.52	
			Ø, inch	3/8"		3/8"	
	Gas Pipe		Ø, mm	15.88		15.88	
			Ø, inch	5/8"		5/8"	
	Drain Pipe		Ø, mm	VP25 (OD 32,ID 25)		VP25 (OD 32,ID 25)	
Field Wiring	Power Source Wire		mm²	1.5 - 2.5		1.5 - 2.5	
	Transmission Cable		mm²	0.75 - 1.50		0.75 - 1.50	
Refrigerant	Type		-	R410A		R410A	
	Control Method		-	EEV(O)		EEV(O)	
Sound	Pressure	High / Mid / Low	dB(A)	38.0 / 35.0 / 32.0		38.0 / 35.0 / 32.0	
	Power	Cooling		58.0		62.0	
Dimension	Net Weight		kg	32.50		38.50	
	Shipping Weight		kg	38.00		44.50	
	Net Dimensions (WxHxD)		mm	1,200 x 250 x 700		1,300 x 300 x 700	
	Shipping Dimensions (WxHxD)		mm	1,429 x 320 x 779		1,529 x 370 x 779	
Panel Size	Panel model		-	-		-	
	Panel Net Weight		kg	-		-	
	Shipping Weight		kg	-		-	
	Net Dimensions (WxHxD)		mm	-		-	
	Shipping Dimensions (WxHxD)		mm	-		-	
Additional Accessories	Drain Pump	Drain Pump	- / Model	MDP-G075SP		MDP-G075SP	
		Max. lifting Height / Displacement	mm/liter/h	-		-	
	Air Filter		-	-		-	

- Mode : HP(Heat Pump), HR(Heat Recovery)

- Nominal Cooling : Indoor temperature 27°CDB / 19°CWB, Outdoor temperature 35°CDB/24°CWB, Refrigerant pipe length 7.5m, Level difference 0m.

- Nominal Heating : Indoor temperature 20°CDB / 15°CWB, Outdoor temperature 7°CDB / 6°CWB, Refrigerant pipe length 7.5m, Level difference 0m.

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

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1 Specifications

Duct S

Type				Duct S		Duct S	
Model				AM128HNMPKH/EU		AM140HNMPKH/EU	
Power Supply			Ø, #, V, Hz	1,2,220-240,50		1,2,220-240,50	
Mode			-	HP/HR		HP/HR	
Performance	Capacity (Nominal)	Cooling	kW	12.80		14.00	
			Btu/h	43,700		47,800	
		Heating	kW	13.80		16.00	
			Btu/h	47,100		54,600	
Power	Power Input (Nominal)	Cooling	W	175.00		215.00	
		Heating		175.00		215.00	
	Current Input (Nominal)	Cooling	A	1.50		1.70	
		Heating		1.50		1.70	
Fan	Motor	Type	-	Sirocco Fan		Sirocco Fan	
		Output x n	w	244 x 1		244 x 1	
	Air Flow Rate	H/M/L (UL)	CMM	38.00 / 32.00 / 25.00		42.00 / 34.00 / 25.00	
			l/s	633.33 / 533.33 / 416.67		700.00 / 566.67 / 416.67	
	External Pressure	Min/Std/Max	mmAq	0 / 5.20 / 15.00		0 / 5.20 / 15.00	
			Pa	50.96 / 147.00		50.96 / 147.00	
Piping Connections	Liquid Pipe		Ø, mm	9.52		9.52	
			Ø, inch	3/8"		3/8"	
	Gas Pipe		Ø, mm	15.88		15.88	
			Ø, inch	5/8"		5/8"	
	Drain Pipe		Ø, mm	VP25 (OD 32,ID 25)		VP25 (OD 32,ID 25)	
Field Wiring	Power Source Wire		mm²	1.5 - 2.5		1.5 - 2.5	
	Transmission Cable		mm²	0.75 - 1.50		0.75 - 1.50	
Refrigerant	Type		-	R410A		R410A	
	Control Method		-	EEV(O)		EEV(O)	
Sound	Pressure	High / Mid / Low	dB(A)	39.0 / 36.0 / 32.0		40.0 / 37.0 / 32.0	
	Power	Cooling		62.0		64.0	
Dimension	Net Weight		kg	38.50		38.50	
	Shipping Weight		kg	44.50		44.50	
	Net Dimensions (WxHxD)		mm	1,300 x 300 x 700		1,300 x 300 x 700	
	Shipping Dimensions (WxHxD)		mm	1,529 x 370 x 779		1,529 x 370 x 779	
Panel Size	Panel model		-	-		-	
	Panel Net Weight		kg	-		-	
	Shipping Weight		kg	-		-	
	Net Dimensions (WxHxD)		mm	-		-	
	Shipping Dimensions (WxHxD)		mm	-		-	
Additional Accessories	Drain Pump	Drain Pump	- / Model	MDP-G075SP		MDP-G075SP	
		Max. lifting Height / Displacement	mm/liter/h	-		-	
	Air Filter		-	-		-	

- Mode : HP(Heat Pump), HR(Heat Recovery)

- Nominal Cooling : Indoor temperature 27°CDB / 19°CWB, Outdoor temperature 35°CDB/24°CWB, Refrigerant pipe length 7.5m, Level difference 0m.

- Nominal Heating : Indoor temperature 20°CDB / 15°CWB, Outdoor temperature 7°CDB / 6°CWB, Refrigerant pipe length 7.5m, Level difference 0m.

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

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1 Specifications

Duct S

Type				Duct S	Duct S	Duct S
Model				AM112HNHPKH/EU	AM128HNHPKH/EU	AM140HNHPKH/EU
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	205.00	230.00	260.00
		Heating		205.00	230.00	260.00
	Current Input (Nominal)	Cooling	A	1.20	1.40	1.50
		Heating		1.20	1.40	1.50
Fan	Motor	Type	-	Sirocco Fan	Sirocco Fan	Sirocco Fan
		Output x n	w	350 x 1	350 x 1	350 x 1
	Air Flow Rate	H/M/L (UL)	CMM	35.00 / 29.00 / 22.00	38.00 / 32.00 / 25.00	42.00 / 34.00 / 25.00
			l/s	583.33 / 483.33 / 366.67	633.33 / 533.33 / 416.67	700.00 / 566.67 / 416.67
	External Pressure	Min/Std/Max	mmAq	3.00 / 6.20 / 20.00	3.00 / 6.20 / 20.00	3.00 / 6.20 / 20.00
			Pa	29.40 / 60.76 / 196.00	29.40 / 60.76 / 196.00	29.40 / 60.76 / 196.00
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(O)	EEV(O)	EEV(O)
Sound	Pressure	High / Mid / Low	dB(A)	38.0 / 35.0 / 32.0	39.0 / 36.0 / 32.0	40.0 / 37.0 / 32.0
	Power	Cooling		63.0	63.0	65.0
Dimension	Net Weight		kg	46.50	46.50	46.50
	Shipping Weight		kg	52.50	52.50	52.50
	Net Dimensions (WxHxD)		mm	1,300 x 300 x 700	1,300 x 300 x 700	1,300 x 300 x 700
	Shipping Dimensions (WxHxD)		mm	1,529 x 370 x 779	1,529 x 370 x 779	1,529 x 370 x 779
Panel Size	Panel model		-	-	-	-
	Panel Net Weight		kg	-	-	-
	Shipping Weight		kg	-	-	-
	Net Dimensions (WxHxD)		mm	-	-	-
	Shipping Dimensions (WxHxD)		mm	-	-	-
Additional Accessories	Drain Pump	Drain Pump	- / Model	MDP-G075SP	MDP-G075SP	MDP-G075SP
		Max. lifting Height / Displacement	mm/liter/h	-	-	-
	Air Filter		-	-	-	-

- Mode : HP(Heat Pump), HR(Heat Recovery)

- Nominal Cooling : Indoor temperature 27°CDB / 19°CWB, Outdoor temperature 35°CDB/24°CWB, Refrigerant pipe length 7.5m, Level difference 0m.

- Nominal Heating : Indoor temperature 20°CDB / 15°CWB, Outdoor temperature 7°CDB / 6°CWB, Refrigerant pipe length 7.5m, Level difference 0m.

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

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2) Capacity table

Duct S

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity

Model	Outdoor temperature (°C, DB)	Indoor temperature (°C, DB / WB)													
		20 / 14		23 / 16		26 / 18		27 / 19		28 / 20		30 / 22		32 / 24	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
3.60	10	2.50	2.00	2.90	2.30	3.40	2.60	3.60	2.60	3.70	2.60	4.00	2.60	4.30	2.50
	12	2.50	2.00	2.90	2.30	3.40	2.60	3.60	2.60	3.70	2.60	4.00	2.60	4.30	2.50
	14	2.50	2.00	2.90	2.30	3.40	2.60	3.60	2.60	3.70	2.60	4.00	2.60	4.30	2.50
	16	2.50	2.00	2.90	2.30	3.40	2.60	3.60	2.60	3.70	2.60	4.00	2.60	4.30	2.50
	18	2.50	2.00	2.90	2.30	3.40	2.60	3.60	2.60	3.70	2.60	4.00	2.60	4.20	2.50
	20	2.50	2.00	2.90	2.30	3.40	2.60	3.60	2.60	3.70	2.60	4.00	2.60	4.20	2.50
	21	2.50	2.00	2.90	2.30	3.40	2.60	3.60	2.60	3.70	2.60	4.00	2.60	4.20	2.50
	23	2.50	2.00	2.90	2.30	3.40	2.60	3.60	2.60	3.70	2.60	4.00	2.60	4.20	2.50
	25	2.50	2.00	2.90	2.30	3.40	2.60	3.60	2.60	3.70	2.60	4.00	2.60	4.20	2.50
	27	2.50	2.00	2.90	2.30	3.40	2.60	3.60	2.60	3.70	2.60	4.00	2.60	4.20	2.50
	29	2.50	2.00	2.90	2.30	3.40	2.60	3.60	2.60	3.70	2.60	4.00	2.60	4.20	2.50
	31	2.50	2.00	2.90	2.30	3.40	2.60	3.60	2.60	3.70	2.60	4.00	2.60	4.20	2.50
	33	2.50	2.00	2.90	2.30	3.40	2.60	3.60	2.60	3.70	2.60	4.00	2.60	4.20	2.50
	35	2.50	2.00	2.90	2.30	3.40	2.60	3.60	2.60	3.70	2.60	4.00	2.60	4.20	2.50
	37	2.50	2.00	2.90	2.30	3.40	2.60	3.60	2.60	3.70	2.60	3.90	2.60	4.20	2.50
	39	2.50	2.00	2.90	2.30	3.40	2.60	3.60	2.60	3.70	2.60	3.90	2.60	4.10	2.50
4.50	10	3.10	2.70	3.70	3.10	4.20	3.20	4.50	3.30	4.70	3.30	5.00	3.30	5.40	3.20
	12	3.10	2.70	3.70	3.10	4.20	3.20	4.50	3.30	4.70	3.30	5.00	3.30	5.40	3.20
	14	3.10	2.70	3.70	3.10	4.20	3.20	4.50	3.30	4.70	3.30	5.00	3.30	5.40	3.20
	16	3.10	2.70	3.70	3.10	4.20	3.20	4.50	3.30	4.70	3.30	5.00	3.30	5.30	3.20
	18	3.10	2.70	3.70	3.10	4.20	3.20	4.50	3.30	4.70	3.30	5.00	3.30	5.30	3.20
	20	3.10	2.70	3.70	3.10	4.20	3.20	4.50	3.30	4.70	3.30	5.00	3.30	5.30	3.20
	21	3.10	2.70	3.70	3.10	4.20	3.20	4.50	3.30	4.70	3.30	5.00	3.30	5.30	3.20
	23	3.10	2.70	3.70	3.10	4.20	3.20	4.50	3.30	4.70	3.30	5.00	3.30	5.30	3.20
	25	3.10	2.70	3.70	3.10	4.20	3.20	4.50	3.30	4.70	3.30	5.00	3.30	5.30	3.20
	27	3.10	2.70	3.70	3.10	4.20	3.20	4.50	3.30	4.70	3.30	5.00	3.30	5.30	3.20
	29	3.10	2.70	3.70	3.10	4.20	3.20	4.50	3.30	4.70	3.30	5.00	3.30	5.30	3.20
	31	3.10	2.70	3.70	3.10	4.20	3.20	4.50	3.30	4.70	3.30	5.00	3.30	5.30	3.20
	33	3.10	2.70	3.70	3.10	4.20	3.20	4.50	3.30	4.70	3.30	5.00	3.30	5.30	3.20
	35	3.10	2.70	3.70	3.10	4.20	3.20	4.50	3.30	4.70	3.30	5.00	3.30	5.30	3.20
	37	3.10	2.70	3.70	3.10	4.20	3.20	4.50	3.30	4.60	3.30	4.90	3.30	5.20	3.20
	39	3.10	2.70	3.70	3.10	4.20	3.20	4.50	3.30	4.60	3.30	4.90	3.30	5.10	3.20
5.60	10	3.90	3.40	4.60	3.90	5.30	4.10	5.60	4.20	5.80	4.20	6.30	4.20	6.70	4.10
	12	3.90	3.40	4.60	3.90	5.30	4.10	5.60	4.20	5.80	4.20	6.30	4.20	6.70	4.10
	14	3.90	3.40	4.60	3.90	5.30	4.10	5.60	4.20	5.80	4.20	6.20	4.20	6.70	4.10
	16	3.90	3.40	4.60	3.90	5.30	4.10	5.60	4.20	5.80	4.20	6.20	4.20	6.60	4.10
	18	3.90	3.40	4.60	3.90	5.30	4.10	5.60	4.20	5.80	4.20	6.20	4.20	6.60	4.10
	20	3.90	3.40	4.60	3.90	5.30	4.10	5.60	4.20	5.80	4.20	6.20	4.20	6.60	4.10
	21	3.90	3.40	4.60	3.90	5.30	4.10	5.60	4.20	5.80	4.20	6.20	4.20	6.60	4.10
	23	3.90	3.40	4.60	3.90	5.30	4.10	5.60	4.20	5.80	4.20	6.20	4.20	6.60	4.10
	25	3.90	3.40	4.60	3.90	5.30	4.10	5.60	4.20	5.80	4.20	6.20	4.20	6.60	4.10
	27	3.90	3.40	4.60	3.90	5.30	4.10	5.60	4.20	5.80	4.20	6.20	4.20	6.60	4.10
	29	3.90	3.40	4.60	3.90	5.30	4.10	5.60	4.20	5.80	4.20	6.20	4.20	6.60	4.10
	31	3.90	3.40	4.60	3.90	5.30	4.10	5.60	4.20	5.80	4.20	6.20	4.20	6.60	4.10
	33	3.90	3.40	4.60	3.90	5.30	4.10	5.60	4.20	5.80	4.20	6.20	4.20	6.60	4.10
	35	3.90	3.40	4.60	3.90	5.30	4.10	5.60	4.20	5.80	4.20	6.20	4.20	6.60	4.10
	37	3.90	3.40	4.60	3.90	5.30	4.10	5.60	4.20	5.80	4.20	6.10	4.20	6.50	4.10
	39	3.90	3.40	4.60	3.90	5.30	4.10	5.60	4.20	5.80	4.20	6.10	4.20	6.40	4.10
7.10	10	4.90	4.30	5.80	5.00	6.70	5.20	7.10	5.40	7.40	5.60	8.00	5.60	8.50	5.30
	12	4.90	4.30	5.80	5.00	6.70	5.20	7.10	5.40	7.40	5.60	7.90	5.60	8.50	5.30
	14	4.90	4.30	5.80	5.00	6.70	5.20	7.10	5.40	7.40	5.60	7.90	5.60	8.50	5.30
	16	4.90	4.30	5.80	5.00	6.70	5.20	7.10	5.40	7.40	5.60	7.90	5.60	8.40	5.30
	18	4.90	4.30	5.80	5.00	6.70	5.20	7.10	5.40	7.40	5.60	7.90	5.60	8.40	5.30
	20	4.90	4.30	5.80	5.00	6.70	5.20	7.10	5.40	7.40	5.60	7.90	5.60	8.40	5.30
	21	4.90	4.30	5.80	5.00	6.70	5.20	7.10	5.40	7.40	5.60	7.90	5.60	8.40	5.30
	23	4.90	4.30	5.80	5.00	6.70	5.20	7.10	5.40	7.40	5.60	7.90	5.60	8.40	5.30
	25	4.90	4.30	5.80	5.00	6.70	5.20	7.10	5.40	7.40	5.60	7.90	5.60	8.40	5.30
	27	4.90	4.30	5.80	5.00	6.70	5.20	7.10	5.40	7.40	5.60	7.90	5.60	8.40	5.30
	29	4.90	4.30	5.80	5.00	6.70	5.20	7.10	5.40	7.40	5.60	7.90	5.60	8.40	5.30
	31	4.90	4.30	5.80	5.00	6.70	5.20	7.10	5.40	7.40	5.60	7.90	5.60	8.40	5.30
	33	4.90	4.30	5.80	5.00	6.70	5.20	7.10	5.40	7.40	5.60	7.90	5.60	8.40	5.30
	35	4.90	4.30	5.80	5.00	6.70	5.20	7.10	5.40	7.40	5.60	7.90	5.60	8.40	5.30
	37	4.90	4.30	5.80	5.00	6.70	5.20	7.10	5.40	7.40	5.60	7.80	5.60	8.20	5.20
	39	4.90	4.30	5.80	5.00	6.70	5.20	7.10	5.40	7.40	5.60	7.70	5.60	8.10	5.20
9.00	10	6.20	5.70	7.30	6.50	8.40	6.90	9.00	7.10	9.40	7.20	10.10	7.20	10.80	7.00
	12	6.20	5.70	7.30	6.50	8.40	6.90	9.00	7.10	9.40	7.20	10.10	7.20	10.80	7.00
	14	6.20	5.70	7.30	6.50	8.40	6.90	9.00	7.10	9.30	7.20	10.00	7.20	10.70	7.00
	16	6.20	5.70	7.30	6.50	8.40	6.90	9.00	7.10	9.30	7.20	10.00	7.20	10.70	7.00
	18	6.20	5.70	7.30	6.50	8.40	6.90	9.00	7.10	9.30	7.20	10.00	7.20	10.60	7.00
	20	6.20	5.70	7.30	6.50	8.40	6.90	9.00	7.10	9.30	7.20	10.00	7.20	10.60	7.00
	21	6.20	5.70	7.30	6.50	8.40	6.90	9.00	7.10	9.30	7.20	10.00	7.20	10.60	7.00
	23	6.20	5.70	7.30	6.50	8.40	6.90	9.00	7.10	9.30	7.20	10.00	7.20	10.60	7.00
	25	6.20	5.70	7.30	6.50	8.40	6.90	9.00	7.10	9.30	7.20	10.00	7.20	10.60	7.00
	27	6.20	5.70	7.30	6.50	8.40	6.90	9.00	7.10	9.30	7.20	10.00	7.20	10.60	7.00
	29	6.20	5.70	7.30	6.50	8.40	6.90	9.00	7.10	9.30	7.20	10.00	7.20	10.60	7.00
	31	6.20	5.70	7.30	6.50	8.40	6.90	9.00	7.10	9.30	7.20	10.00	7.20	10.60	7.00
	33	6.20	5.70	7.30	6.50	8.40	6.90	9.00	7.10	9.30	7.20	10.00	7.20	10.60	7.00
	35	6.20	5.70	7.30	6.50	8.40	6.90	9.00	7.10	9.30	7.20	10.00	7.20	10.60	7.00
	37	6.20	5.70	7.30	6.50	8.40	6.90	9.00	7.10	9.30	7.20	9.90	7.20	10.40	7.00
	39	6.20	5.70	7.30	6.50	8.40	6.90	9.00	7.10	9.20	7.20	9.70	7.10	10.20	7.00
11.20	10	7.70	6.80	9.10	7.80	10.50	8.30	11.20	8.60	11.60	8.80	12.50	8.60	13.40	8.40
	12	7.70	6.80	9.10	7.80	10.50	8.30	11.20	8.60	11.60	8.80	12.50	8.60	13.40	8.40
	14	7.70	6.80	9.10	7.80	10.50	8.30	11.20	8.60	11.60	8.80	12.50	8.60	13.30	8.40
	16	7.70	6.80	9.10	7.80	10.50	8.30	11.20	8.60	11.60	8.80	12.50	8.60	13.30	8.40
	18	7.70	6.80	9.10	7.80	10.50	8.30	11.20	8.60	11.60	8.80	12.40	8.60	13.20	8.40
	20	7.70	6.80	9.10	7.80	10.50	8.30	11.20	8.60	11.60	8.80	12.40	8.60	13.20	8.40
	21	7.70	6.80	9.10	7.80	10.50	8.30	11.20	8.60	11.60	8.80	12.40	8.60	13.20	8.40
	23	7.70	6.80	9.10	7.80	10.50	8.30	11.20							

2 Capacity table

Duct S

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity

Model	Outdoor temperature (°C, DB)	Indoor temperature (°C, DB / WB)													
		20 / 14		23 / 16		26 / 18		27 / 19		28 / 20		30 / 22		32 / 24	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
11.20	29	7.70	6.80	9.10	7.80	10.50	8.30	11.20	8.60	11.60	8.80	12.40	8.60	13.20	8.40
	31	7.70	6.80	9.10	7.80	10.50	8.30	11.20	8.60	11.60	8.80	12.40	8.60	13.20	8.40
	33	7.70	6.80	9.10	7.80	10.50	8.30	11.20	8.60	11.60	8.80	12.40	8.60	13.20	8.40
	35	7.70	6.80	9.10	7.80	10.50	8.30	11.20	8.60	11.60	8.80	12.40	8.60	13.20	8.40
	37	7.70	6.80	9.10	7.80	10.50	8.30	11.20	8.60	11.60	8.80	12.30	8.60	13.00	8.40
	39	7.70	6.80	9.10	7.80	10.50	8.30	11.20	8.60	11.50	8.80	12.10	8.50	12.70	8.30
12.80	10	8.80	7.80	10.40	8.90	12.00	9.50	12.80	9.90	13.30	10.10	14.30	10.00	15.40	9.90
	12	8.80	7.80	10.40	8.90	12.00	9.50	12.80	9.90	13.30	10.10	14.30	10.00	15.30	9.90
	14	8.80	7.80	10.40	8.90	12.00	9.50	12.80	9.90	13.30	10.10	14.30	10.00	15.30	9.90
	16	8.80	7.80	10.40	8.90	12.00	9.50	12.80	9.90	13.30	10.10	14.20	10.00	15.20	9.90
	18	8.80	7.80	10.40	8.90	12.00	9.50	12.80	9.90	13.30	10.10	14.20	10.00	15.10	9.90
	20	8.80	7.80	10.40	8.90	12.00	9.50	12.80	9.90	13.30	10.10	14.20	10.00	15.10	9.90
	21	8.80	7.80	10.40	8.90	12.00	9.50	12.80	9.90	13.30	10.10	14.20	10.00	15.10	9.90
	23	8.80	7.80	10.40	8.90	12.00	9.50	12.80	9.90	13.30	10.10	14.20	10.00	15.10	9.90
	25	8.80	7.80	10.40	8.90	12.00	9.50	12.80	9.90	13.30	10.10	14.20	10.00	15.10	9.90
	27	8.80	7.80	10.40	8.90	12.00	9.50	12.80	9.90	13.30	10.10	14.20	10.00	15.10	9.90
	29	8.80	7.80	10.40	8.90	12.00	9.50	12.80	9.90	13.30	10.10	14.20	10.00	15.10	9.90
	31	8.80	7.80	10.40	8.90	12.00	9.50	12.80	9.90	13.30	10.10	14.20	10.00	15.10	9.90
	33	8.80	7.80	10.40	8.90	12.00	9.50	12.80	9.90	13.30	10.10	14.20	10.00	15.10	9.90
	35	8.80	7.80	10.40	8.90	12.00	9.50	12.80	9.90	13.30	10.10	14.20	10.00	15.10	9.90
	37	8.80	7.80	10.40	8.90	12.00	9.50	12.80	9.90	13.20	10.10	14.00	10.00	14.90	9.90
	39	8.80	7.80	10.40	8.90	12.00	9.50	12.80	9.90	13.10	10.10	13.80	10.00	14.50	9.80
14.00	10	9.70	8.60	11.40	9.60	13.10	10.40	14.00	10.80	14.60	11.00	15.70	11.00	16.80	11.00
	12	9.70	8.60	11.40	9.60	13.10	10.40	14.00	10.80	14.50	11.00	15.60	11.00	16.70	11.00
	14	9.70	8.60	11.40	9.60	13.10	10.40	14.00	10.80	14.50	11.00	15.60	11.00	16.70	11.00
	16	9.70	8.60	11.40	9.60	13.10	10.40	14.00	10.80	14.50	11.00	15.60	11.00	16.60	11.00
	18	9.70	8.60	11.40	9.60	13.10	10.40	14.00	10.80	14.50	11.00	15.50	11.00	16.60	11.00
	20	9.70	8.60	11.40	9.60	13.10	10.40	14.00	10.80	14.50	11.00	15.50	11.00	16.50	11.00
	21	9.70	8.60	11.40	9.60	13.10	10.40	14.00	10.80	14.50	11.00	15.50	11.00	16.50	11.00
	23	9.70	8.60	11.40	9.60	13.10	10.40	14.00	10.80	14.50	11.00	15.50	11.00	16.50	11.00
	25	9.70	8.60	11.40	9.60	13.10	10.40	14.00	10.80	14.50	11.00	15.50	11.00	16.50	11.00
	27	9.70	8.60	11.40	9.60	13.10	10.40	14.00	10.80	14.50	11.00	15.50	11.00	16.50	11.00
	29	9.70	8.60	11.40	9.60	13.10	10.40	14.00	10.80	14.50	11.00	15.50	11.00	16.50	11.00
	31	9.70	8.60	11.40	9.60	13.10	10.40	14.00	10.80	14.50	11.00	15.50	11.00	16.50	11.00
	33	9.70	8.60	11.40	9.60	13.10	10.40	14.00	10.80	14.50	11.00	15.50	11.00	16.50	11.00
	35	9.70	8.60	11.40	9.60	13.10	10.40	14.00	10.80	14.50	11.00	15.50	11.00	16.50	11.00
	37	9.70	8.60	11.40	9.60	13.10	10.40	14.00	10.80	14.50	11.00	15.40	11.00	16.30	11.00
	39	9.70	8.60	11.40	9.60	13.10	10.40	14.00	10.80	14.40	11.00	15.10	10.90	15.90	10.90

2 Capacity table

Duct S

Heating

TC : Total Capacity

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
3.60	-20	-21	2.40	2.40	2.30	2.30	2.30
	-17	-18	2.60	2.50	2.40	2.40	2.30
	-15	-16	2.70	2.60	2.50	2.50	2.40
	-12	-13	2.80	2.70	2.70	2.60	2.60
	-10	-11	2.90	2.90	2.90	2.80	2.80
	-7	-8	3.10	3.10	3.00	3.00	2.90
	-5	-6	3.30	3.20	3.20	3.10	3.00
	-3	-4	3.40	3.40	3.30	3.20	3.10
	0	-1	3.60	3.60	3.50	3.40	3.20
	3	2	3.80	3.70	3.70	3.50	3.40
	5	4	3.90	3.90	3.80	3.60	3.40
	7	6	4.10	4.10	4.00	3.70	3.40
	9	8	4.20	4.10	4.00	3.70	3.40
	11	10	4.40	4.20	4.00	3.70	3.40
	13	12	4.50	4.20	4.00	3.70	3.40
4.50	-20	-21	3.10	3.10	2.90	2.90	2.90
	-17	-18	3.20	3.20	3.10	3.00	3.00
	-15	-16	3.30	3.30	3.20	3.10	3.00
	-12	-13	3.50	3.40	3.40	3.30	3.20
	-10	-11	3.70	3.60	3.60	3.50	3.50
	-7	-8	3.90	3.80	3.80	3.70	3.60
	-5	-6	4.10	4.00	4.00	3.90	3.70
	-3	-4	4.30	4.20	4.20	4.00	3.90
	0	-1	4.50	4.40	4.40	4.20	4.00
	3	2	4.70	4.70	4.60	4.40	4.20
	5	4	4.90	4.90	4.80	4.50	4.20
	7	6	5.10	5.10	5.00	4.60	4.20
	9	8	5.30	5.20	5.00	4.60	4.20
	11	10	5.50	5.20	5.00	4.60	4.20
	13	12	5.60	5.30	5.00	4.60	4.20
5.60	-20	-21	3.90	3.80	3.80	3.70	3.70
	-17	-18	4.00	4.00	3.90	3.80	3.80
	-15	-16	4.20	4.10	4.00	3.90	3.80
	-12	-13	4.40	4.30	4.20	4.20	4.10
	-10	-11	4.60	4.60	4.50	4.40	4.40
	-7	-8	4.90	4.80	4.80	4.70	4.50
	-5	-6	5.20	5.10	5.00	4.90	4.70
	-3	-4	5.40	5.30	5.30	5.10	4.90
	0	-1	5.70	5.60	5.50	5.30	5.00
	3	2	5.90	5.90	5.80	5.60	5.30
	5	4	6.20	6.10	6.00	5.70	5.30
	7	6	6.50	6.40	6.30	5.80	5.30
	9	8	6.70	6.50	6.30	5.80	5.30
	11	10	6.90	6.60	6.30	5.80	5.30
	13	12	7.10	6.70	6.30	5.80	5.30
7.10	-20	-21	7.30	6.80	6.30	5.80	5.30
	-17	-18	4.90	4.90	4.80	4.70	4.70
	-15	-16	5.10	5.00	4.90	4.80	4.80
	-12	-13	5.30	5.20	5.10	4.90	4.80
	-10	-11	5.60	5.50	5.40	5.30	5.20
	-7	-8	5.90	5.80	5.70	5.60	5.60
	-5	-6	6.20	6.10	6.00	5.90	5.80
	-3	-4	6.50	6.40	6.30	6.20	6.00
	0	-1	6.80	6.70	6.60	6.40	6.20
	3	2	7.20	7.10	7.00	6.70	6.40
	5	4	7.60	7.50	7.30	7.10	6.80
	7	6	7.90	7.80	7.70	7.20	6.80
	9	8	8.20	8.10	8.00	7.40	6.80
	11	10	8.50	8.20	8.00	7.40	6.80
	13	12	8.70	8.40	8.00	7.40	6.80
9.00	-20	-21	9.00	8.50	8.00	7.40	6.80
	-17	-18	9.20	8.60	8.00	7.40	6.80
	-15	-16	9.40	8.80	8.00	7.40	6.80
	-12	-13	9.60	9.00	8.00	7.40	6.80
	-10	-11	9.80	9.20	8.00	7.40	6.80
	-7	-8	10.00	9.40	8.00	7.40	6.80
	-5	-6	10.20	9.60	8.00	7.40	6.80
	-3	-4	10.40	9.80	8.00	7.40	6.80
	0	-1	10.60	10.00	8.00	7.40	6.80
	3	2	10.80	10.20	8.00	7.40	6.80
	5	4	11.00	10.40	8.00	7.40	6.80
	7	6	11.20	10.60	8.00	7.40	6.80
	9	8	11.40	10.80	8.00	7.40	6.80
	11	10	11.60	11.00	8.00	7.40	6.80
	13	12	11.80	11.20	8.00	7.40	6.80
11.20	-20	-21	11.20	10.60	10.00	9.20	8.40
	-17	-18	11.40	10.80	10.20	9.40	8.60
	-15	-16	11.60	11.00	10.40	9.60	8.80
	-12	-13	11.80	11.20	10.60	9.80	9.00
	-10	-11	12.00	11.40	10.80	10.00	9.20
	-7	-8	12.20	11.60	11.00	10.20	9.40
	-5	-6	12.40	11.80	11.20	10.40	9.60
	-3	-4	12.60	12.00	11.40	10.60	9.80
	0	-1	12.80	12.20	11.60	10.80	10.00
	3	2	13.00	12.40	11.80	11.00	10.20

2 Capacity table

Duct S

Heating

TC : Total Capacity

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
11.20	5	4	12.30	12.20	12.00	11.30	10.60
	7	6	12.90	12.70	12.50	11.50	10.60
	9	8	13.30	12.90	12.50	11.50	10.60
	11	10	13.70	13.10	12.50	11.50	10.60
	13	12	14.00	13.30	12.50	11.50	10.60
	15	14	14.40	13.50	12.50	11.50	10.60
12.80	-20	-21	8.10	8.10	8.00	8.00	8.00
	-17	-18	8.70	8.50	8.40	8.30	8.10
	-15	-16	9.20	9.00	8.70	8.50	8.20
	-12	-13	9.70	9.50	9.30	9.10	8.90
	-10	-11	10.10	10.00	9.90	9.70	9.60
	-7	-8	10.70	10.60	10.40	10.20	10.00
	-5	-6	11.30	11.10	11.00	10.70	10.30
	-3	-4	11.90	11.70	11.50	11.10	10.70
	0	-1	12.40	12.30	12.10	11.60	11.00
	3	2	13.00	12.90	12.70	12.20	11.70
	5	4	13.60	13.40	13.20	12.40	11.70
	7	6	14.20	14.00	13.80	12.70	11.70
	9	8	14.60	14.20	13.80	12.70	11.70
	11	10	15.10	14.40	13.80	12.70	11.70
	13	12	15.50	14.70	13.80	12.70	11.70
	15	14	15.90	14.90	13.80	12.70	11.70
	-20	-21	9.50	9.50	9.40	9.40	9.30
	-17	-18	10.10	9.90	9.60	9.60	9.40
14.00	-15	-16	10.70	10.40	10.10	9.80	9.50
	-12	-13	11.20	11.00	10.80	10.60	10.30
	-10	-11	11.70	11.60	11.40	11.30	11.10
	-7	-8	12.40	12.20	12.10	11.80	11.50
	-5	-6	13.10	12.90	12.70	12.30	12.00
	-3	-4	13.80	13.60	13.40	12.90	12.40
	0	-1	14.40	14.20	14.00	13.40	12.80
	3	2	15.10	14.90	14.70	14.10	13.50
	5	4	15.80	15.60	15.30	14.40	13.50
	7	6	16.50	16.20	16.00	14.80	13.50
	9	8	17.00	16.50	16.00	14.80	13.50
	11	10	17.50	16.70	16.00	14.80	13.50
	13	12	18.00	17.00	16.00	14.80	13.50
	15	14	18.50	17.20	16.00	14.80	13.50

2 Capacity table

Duct S

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity

Model	Outdoor temperature (°C, DB)	Indoor temperature (°C, DB / WB)													
		20 / 14		23 / 16		26 / 18		27 / 19		28 / 20		30 / 22		32 / 24	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
11.20	10	7.70	6.80	9.10	7.80	10.50	8.30	11.20	8.60	11.60	8.80	12.50	8.60	13.40	8.40
	12	7.70	6.80	9.10	7.80	10.50	8.30	11.20	8.60	11.60	8.80	12.50	8.60	13.40	8.40
	14	7.70	6.80	9.10	7.80	10.50	8.30	11.20	8.60	11.60	8.80	12.50	8.60	13.30	8.40
	16	7.70	6.80	9.10	7.80	10.50	8.30	11.20	8.60	11.60	8.80	12.50	8.60	13.30	8.40
	18	7.70	6.80	9.10	7.80	10.50	8.30	11.20	8.60	11.60	8.80	12.40	8.60	13.20	8.40
	20	7.70	6.80	9.10	7.80	10.50	8.30	11.20	8.60	11.60	8.80	12.40	8.60	13.20	8.40
	21	7.70	6.80	9.10	7.80	10.50	8.30	11.20	8.60	11.60	8.80	12.40	8.60	13.20	8.40
	23	7.70	6.80	9.10	7.80	10.50	8.30	11.20	8.60	11.60	8.80	12.40	8.60	13.20	8.40
	25	7.70	6.80	9.10	7.80	10.50	8.30	11.20	8.60	11.60	8.80	12.40	8.60	13.20	8.40
	27	7.70	6.80	9.10	7.80	10.50	8.30	11.20	8.60	11.60	8.80	12.40	8.60	13.20	8.40
	29	7.70	6.80	9.10	7.80	10.50	8.30	11.20	8.60	11.60	8.80	12.40	8.60	13.20	8.40
	31	7.70	6.80	9.10	7.80	10.50	8.30	11.20	8.60	11.60	8.80	12.40	8.60	13.20	8.40
	33	7.70	6.80	9.10	7.80	10.50	8.30	11.20	8.60	11.60	8.80	12.40	8.60	13.20	8.40
	35	7.70	6.80	9.10	7.80	10.50	8.30	11.20	8.60	11.60	8.80	12.40	8.60	13.20	8.40
	37	7.70	6.80	9.10	7.80	10.50	8.30	11.20	8.60	11.60	8.80	12.30	8.60	13.00	8.40
	39	7.70	6.80	9.10	7.80	10.50	8.30	11.20	8.60	11.50	8.80	12.10	8.50	12.70	8.30
12.80	10	8.80	7.80	10.40	8.90	12.00	9.50	12.80	9.90	13.30	10.10	14.30	10.00	15.40	9.90
	12	8.80	7.80	10.40	8.90	12.00	9.50	12.80	9.90	13.30	10.10	14.30	10.00	15.30	9.90
	14	8.80	7.80	10.40	8.90	12.00	9.50	12.80	9.90	13.30	10.10	14.30	10.00	15.30	9.90
	16	8.80	7.80	10.40	8.90	12.00	9.50	12.80	9.90	13.30	10.10	14.20	10.00	15.20	9.90
	18	8.80	7.80	10.40	8.90	12.00	9.50	12.80	9.90	13.30	10.10	14.20	10.00	15.10	9.90
	20	8.80	7.80	10.40	8.90	12.00	9.50	12.80	9.90	13.30	10.10	14.20	10.00	15.10	9.90
	21	8.80	7.80	10.40	8.90	12.00	9.50	12.80	9.90	13.30	10.10	14.20	10.00	15.10	9.90
	23	8.80	7.80	10.40	8.90	12.00	9.50	12.80	9.90	13.30	10.10	14.20	10.00	15.10	9.90
	25	8.80	7.80	10.40	8.90	12.00	9.50	12.80	9.90	13.30	10.10	14.20	10.00	15.10	9.90
	27	8.80	7.80	10.40	8.90	12.00	9.50	12.80	9.90	13.30	10.10	14.20	10.00	15.10	9.90
	29	8.80	7.80	10.40	8.90	12.00	9.50	12.80	9.90	13.30	10.10	14.20	10.00	15.10	9.90
	31	8.80	7.80	10.40	8.90	12.00	9.50	12.80	9.90	13.30	10.10	14.20	10.00	15.10	9.90
	33	8.80	7.80	10.40	8.90	12.00	9.50	12.80	9.90	13.30	10.10	14.20	10.00	15.10	9.90
	35	8.80	7.80	10.40	8.90	12.00	9.50	12.80	9.90	13.30	10.10	14.20	10.00	15.10	9.90
	37	8.80	7.80	10.40	8.90	12.00	9.50	12.80	9.90	13.20	10.10	14.00	10.00	14.90	9.90
	39	8.80	7.80	10.40	8.90	12.00	9.50	12.80	9.90	13.10	10.10	13.80	10.00	14.50	9.80
14.00	10	9.70	8.60	11.40	9.60	13.10	10.40	14.00	10.80	14.60	11.00	15.70	11.00	16.80	11.00
	12	9.70	8.60	11.40	9.60	13.10	10.40	14.00	10.80	14.50	11.00	15.60	11.00	16.70	11.00
	14	9.70	8.60	11.40	9.60	13.10	10.40	14.00	10.80	14.50	11.00	15.60	11.00	16.70	11.00
	16	9.70	8.60	11.40	9.60	13.10	10.40	14.00	10.80	14.50	11.00	15.60	11.00	16.60	11.00
	18	9.70	8.60	11.40	9.60	13.10	10.40	14.00	10.80	14.50	11.00	15.50	11.00	16.60	11.00
	20	9.70	8.60	11.40	9.60	13.10	10.40	14.00	10.80	14.50	11.00	15.50	11.00	16.50	11.00
	21	9.70	8.60	11.40	9.60	13.10	10.40	14.00	10.80	14.50	11.00	15.50	11.00	16.50	11.00
	23	9.70	8.60	11.40	9.60	13.10	10.40	14.00	10.80	14.50	11.00	15.50	11.00	16.50	11.00
	25	9.70	8.60	11.40	9.60	13.10	10.40	14.00	10.80	14.50	11.00	15.50	11.00	16.50	11.00
	27	9.70	8.60	11.40	9.60	13.10	10.40	14.00	10.80	14.50	11.00	15.50	11.00	16.50	11.00
	29	9.70	8.60	11.40	9.60	13.10	10.40	14.00	10.80	14.50	11.00	15.50	11.00	16.50	11.00
	31	9.70	8.60	11.40	9.60	13.10	10.40	14.00	10.80	14.50	11.00	15.50	11.00	16.50	11.00
	33	9.70	8.60	11.40	9.60	13.10	10.40	14.00	10.80	14.50	11.00	15.50	11.00	16.50	11.00
	35	9.70	8.60	11.40	9.60	13.10	10.40	14.00	10.80	14.50	11.00	15.50	11.00	16.50	11.00
	37	9.70	8.60	11.40	9.60	13.10	10.40	14.00	10.80	14.50	11.00	15.40	11.00	16.30	11.00
	39	9.70	8.60	11.40	9.60	13.10	10.40	14.00	10.80	14.40	11.00	15.10	10.90	15.90	10.90

2 Capacity table

Duct S

Heating

TC : Total Capacity

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
11.20	-20	-21	7.40	7.40	7.30	7.30	7.30
	-17	-18	8.00	7.80	7.60	7.50	7.40
	-15	-16	8.40	8.10	7.90	7.70	7.50
	-12	-13	8.80	8.60	8.40	8.20	8.10
	-10	-11	9.20	9.00	8.80	8.60	8.70
	-7	-8	9.70	9.60	9.40	9.20	9.00
	-5	-6	10.20	10.10	9.90	9.60	9.30
	-3	-4	10.70	10.60	10.50	10.10	9.70
	0	-1	11.30	11.10	11.10	10.50	10.00
	3	2	11.80	11.60	11.50	11.00	10.60
	5	4	12.30	12.20	12.00	11.30	10.60
	7	6	12.90	12.70	12.50	11.50	10.60
	9	8	13.30	12.90	12.50	11.50	10.60
	11	10	13.70	13.10	12.50	11.50	10.60
	13	12	14.00	13.30	12.50	11.50	10.60
12.80	15	14	14.40	13.50	12.50	11.50	10.60
	-20	-21	8.10	8.10	8.00	8.00	8.00
	-17	-18	8.70	8.50	8.40	8.30	8.10
	-15	-16	9.20	9.00	8.70	8.50	8.20
	-12	-13	9.70	9.50	9.30	9.10	8.90
	-10	-11	10.10	10.00	9.90	9.70	9.60
	-7	-8	10.70	10.60	10.40	10.20	10.00
	-5	-6	11.30	11.10	11.00	10.70	10.30
	-3	-4	11.90	11.70	11.50	11.10	10.70
	0	-1	12.40	12.30	12.10	11.60	11.00
	3	2	13.00	12.90	12.70	12.20	11.70
	5	4	13.60	13.40	13.20	12.40	11.70
	7	6	14.20	14.00	13.80	12.70	11.70
	9	8	14.60	14.20	13.80	12.70	11.70
	11	10	15.10	14.40	13.80	12.70	11.70
14.00	13	12	15.50	14.70	13.80	12.70	11.70
	15	14	15.90	14.90	13.80	12.70	11.70
	-20	-21	9.50	9.50	9.40	9.40	9.30
	-17	-18	10.10	9.90	9.60	9.60	9.40
	-15	-16	10.70	10.40	10.10	9.80	9.50
	-12	-13	11.20	11.00	10.80	10.60	10.30
	-10	-11	11.70	11.60	11.40	11.30	11.10
	-7	-8	12.40	12.20	12.10	11.80	11.50
	-5	-6	13.10	12.90	12.70	12.30	12.00
	-3	-4	13.80	13.60	13.40	12.90	12.40
	0	-1	14.40	14.20	14.00	13.40	12.80
	3	2	15.10	14.90	14.70	14.10	13.50
	5	4	15.80	15.60	15.30	14.40	13.50
	7	6	16.50	16.20	16.00	14.80	13.50
	9	8	17.00	16.50	16.00	14.80	13.50
	11	10	17.50	16.70	16.00	14.80	13.50
	13	12	18.00	17.00	16.00	14.80	13.50
	15	14	18.50	17.20	16.00	14.80	13.50

3 Dimensional drawing

Duct S

AM036HNMPKH/EU, AM045HNMPKH/EU, AM056HNMPKH/EU, AM071HNMPKH/EU

Units : mm / inches

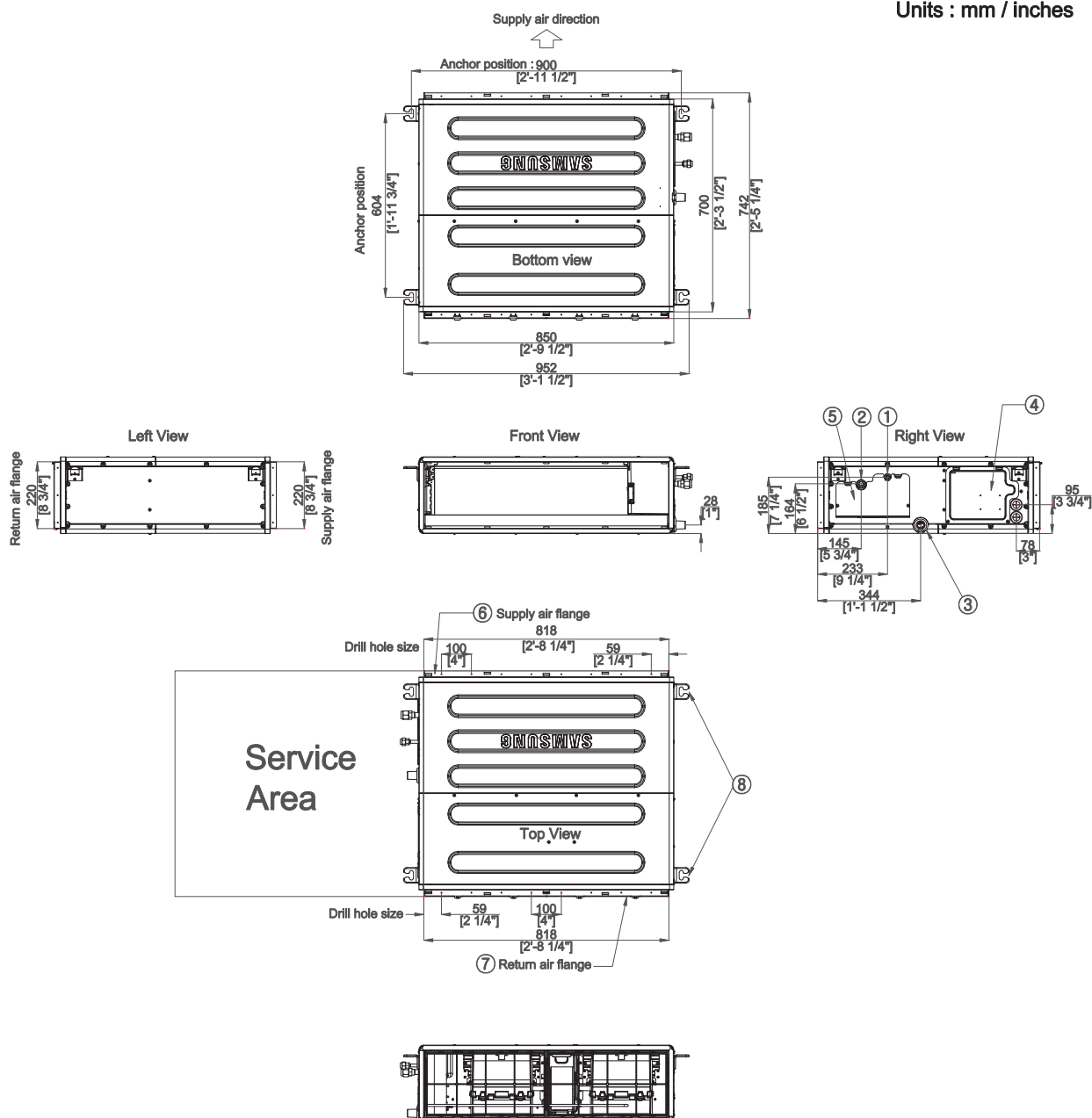


Table of descriptions

1	Refrigerant liquid pipe	7	Return air flange
2	Refrigerant gas pipe	8	Hook
3	Condensate drain	9	
4	Power & Comm. wiring conduits	10	
5	Refrigerant pipe conduits	11	
6	Supply air flange	12	

3 Dimensional drawing

Duct S

AM090HNMPKH/EU

Units : mm / inches

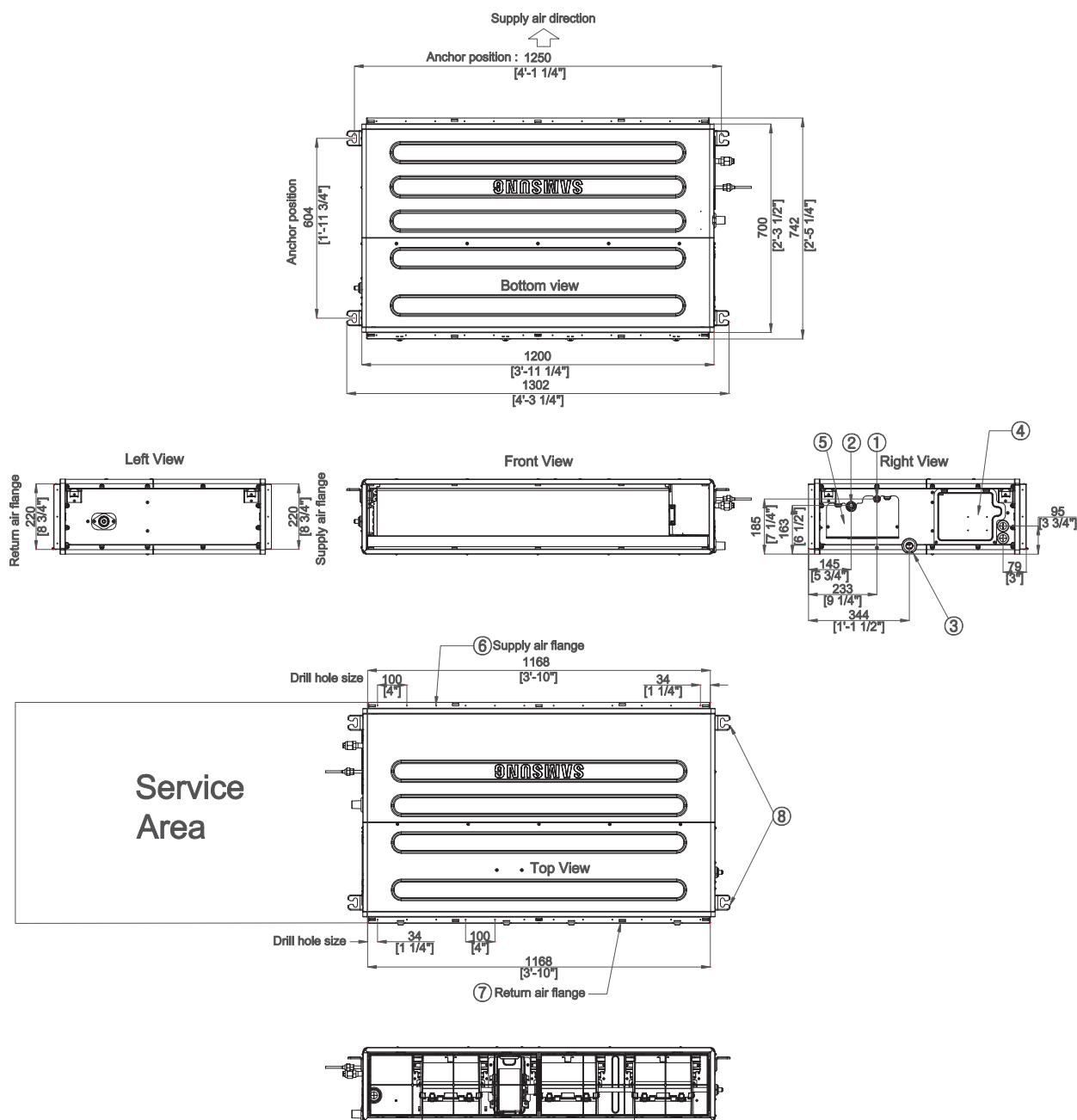


Table of descriptions

1	Refrigerant liquid pipe	7	Return air flange
2	Refrigerant gas pipe	8	Hook
3	Condensate drain	9	
4	Power & Comm. wiring conduits	10	
5	Refrigerant pipe conduits	11	
6	Supply air flange	12	

3 Dimensional drawing

Duct S

AM112HNMPKH/EU, AM128HNMPKH/EU, AM140HNMPKH/EU
AM112HNHPKH/EU, AM128HNHPKH/EU, AM140HNHPKH/EU

Units : mm / inches

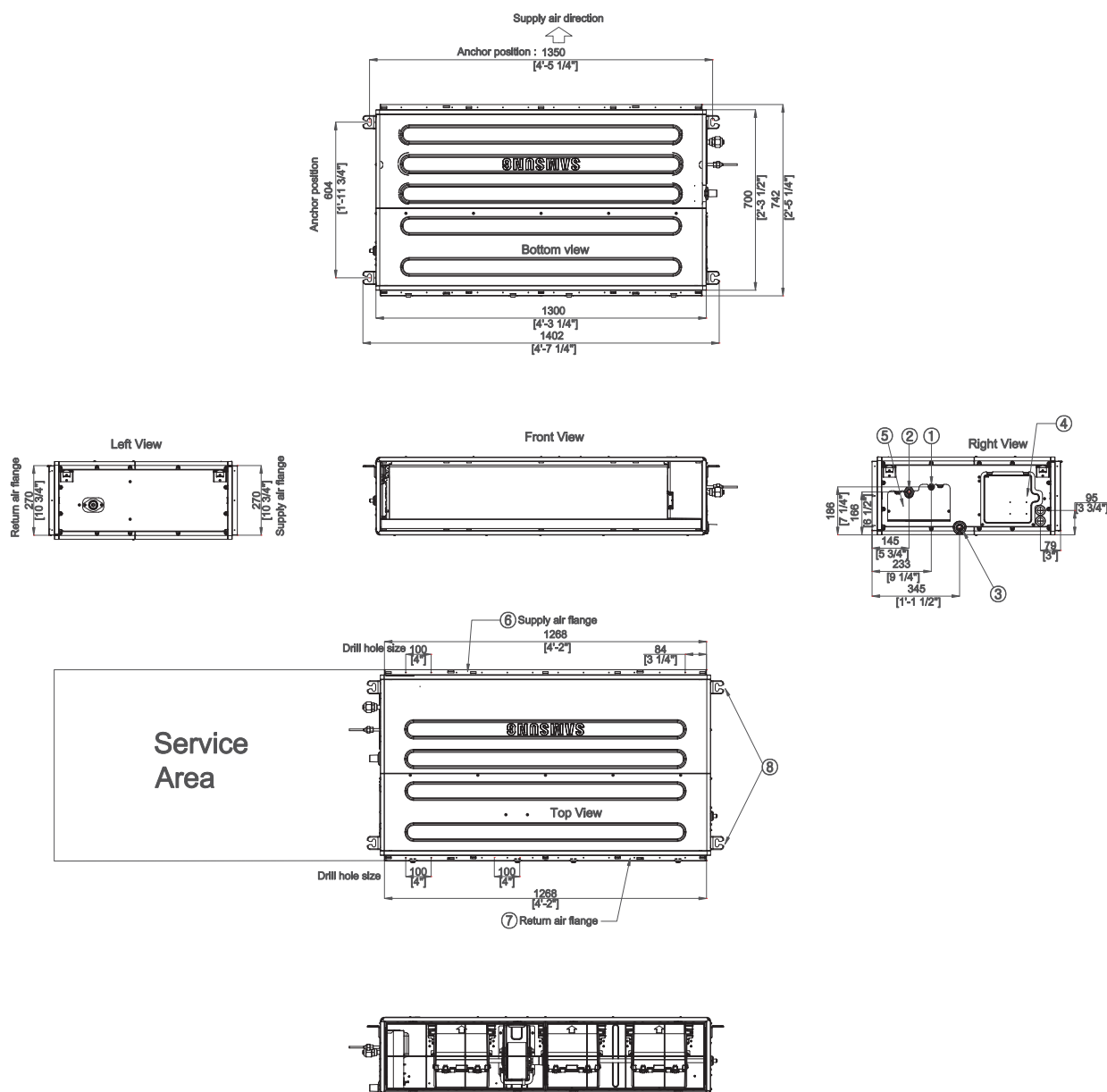


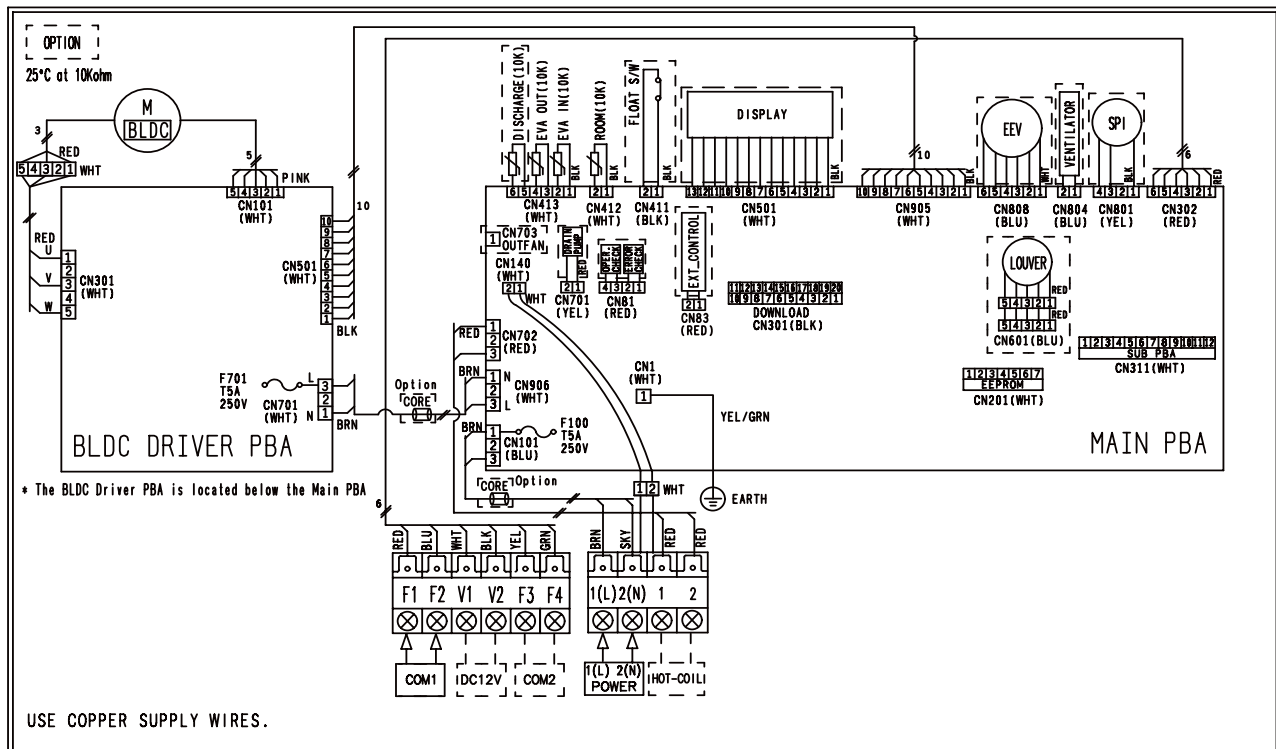
Table of descriptions

1	Refrigerant liquid pipe	7	Return air flange
2	Refrigerant gas pipe	8	Hook
3	Condensate drain	9	
4	Power & Comm. wiring conduits	10	
5	Refrigerant pipe conduits	11	
6	Supply air flange	12	

4 Electrical wiring diagram

Duct S

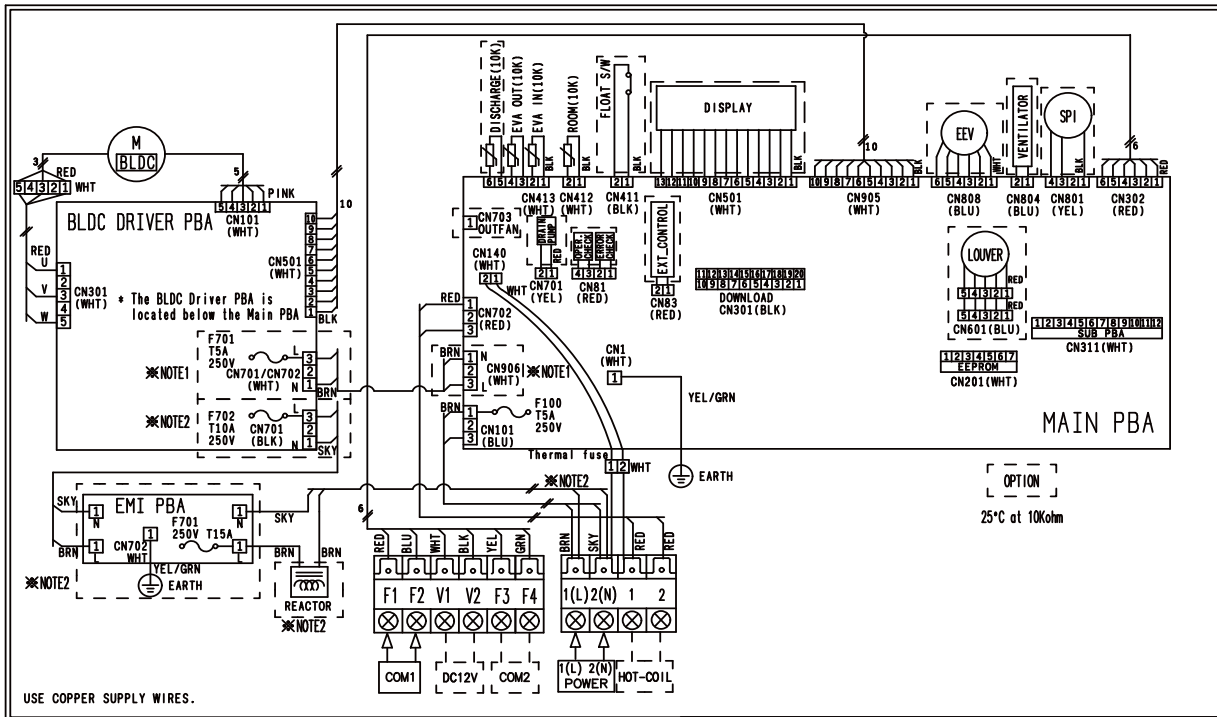
AM036HNMPKH/EU, AM045HNMPKH/EU, AM056HNMPKH/EU, AM071HNMPKH/EU, AM090HNMPKH/EU, AM112HNMPKH/EU, AM128HNMPKH/EU
AM140HNMPKH/EU



4 Electrical wiring diagram

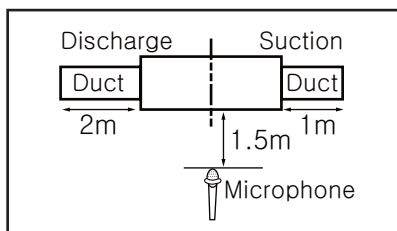
Duct S

AM12HNHPKH/EU, AM128HNHPKH/EU, AM140HNHPKH/EU



5 Sound pressure level

Duct S



Unit: dB(A)

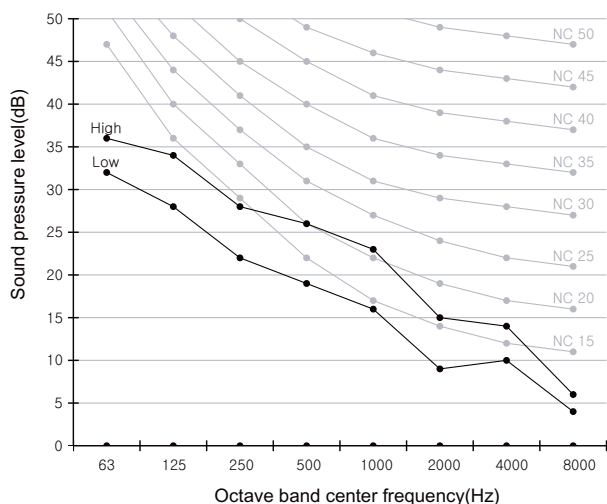
Model	High	Low
AM036HNMPKH/EU	29.0	23.0
AM045HNMPKH/EU	31.0	24.0
AM056HNMPKH/EU	32.0	25.0
AM071HNMPKH/EU	37.0	29.0

Note

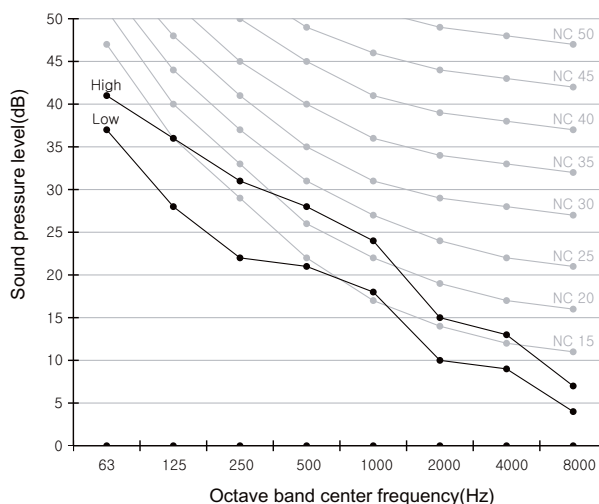
- These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a factors such as the construction of the particular room where the equipment is installed.
- Operation sound level may differ depending on operation and ambient conditions.

NC curve

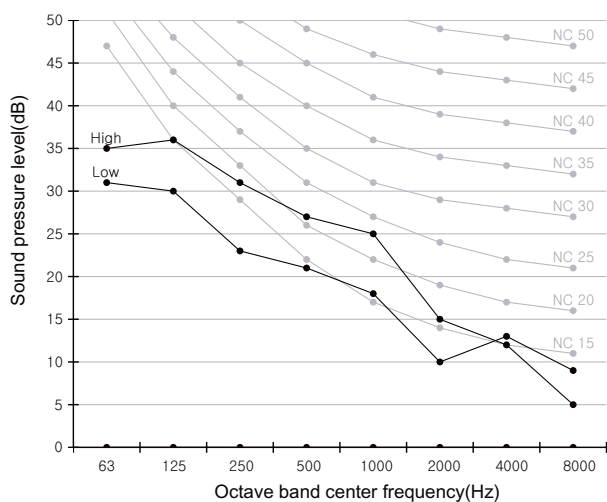
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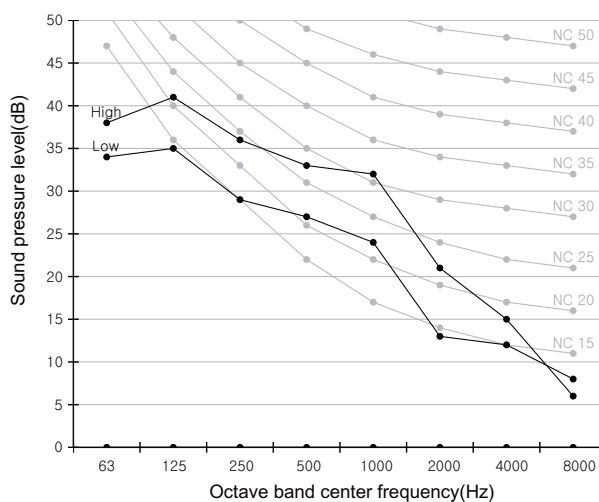
2) AM045HNMPKH/EU



3) AM056HNMPKH/EU

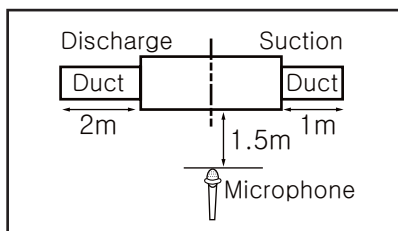


4) AM071HNMPKH/EU



5 Sound pressure level

Duct S



Unit: dB(A)

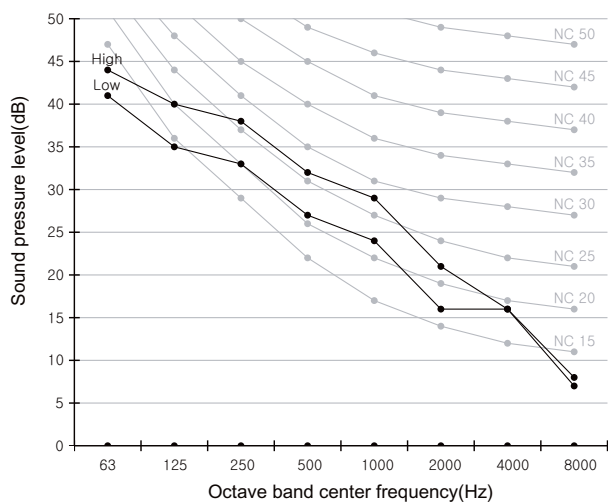
Model	High	Low
AM090HNMPKH/EU	38.0	32.0
AM112HNMPKH/EU	38.0	32.0
AM128HNMPKH/EU	39.0	32.0
AM140HNMPKH/EU	40.0	32.0

Note

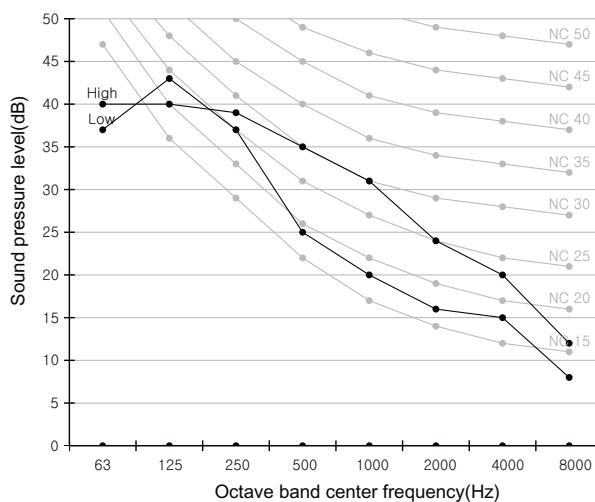
- These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a factors such as the construction of the particular room where the equipment is installed.
- Operation sound level may differ depending on operation and ambient conditions.

NC curve

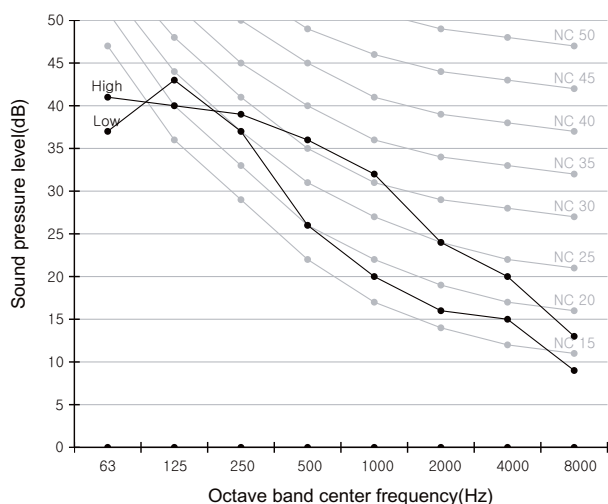
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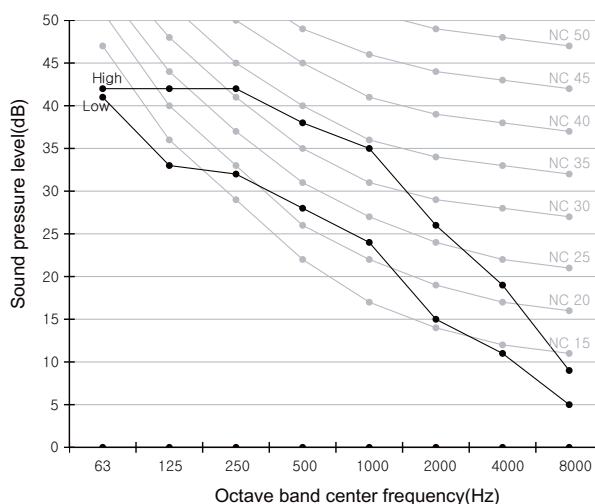
2) AM112HNMPKH/EU



3) AM128HNMPKH/EU

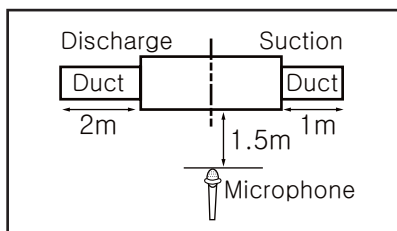


4) AM140HNMPKH/EU



5 Sound pressure level

Duct S



Unit: dB(A)

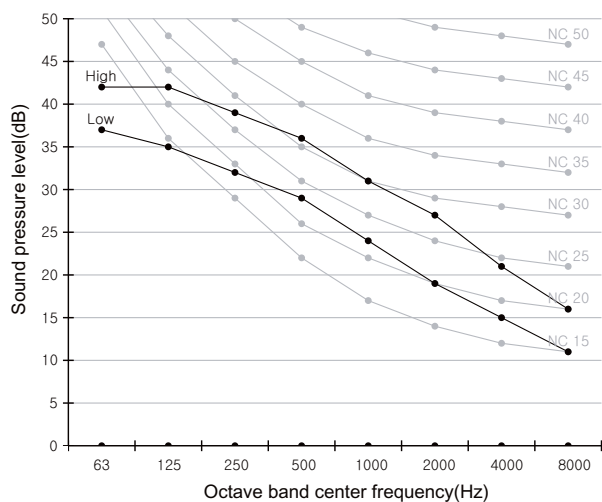
Model	High	Low
AM112HNHPKH/EU	38.0	32.0
AM128HNHPKH/EU	39.0	32.0
AM140HNHPKH/EU	40.0	32.0

Note

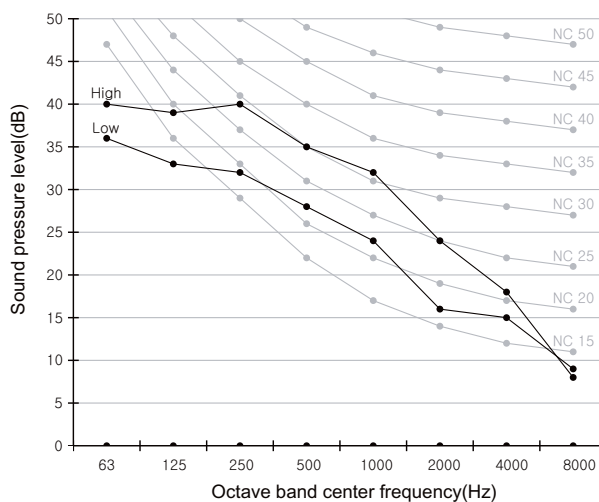
- These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a factors such as the construction of the particular room where the equipment is installed.
- Operation sound level may differ depending on operation and ambient conditions.

NC curve

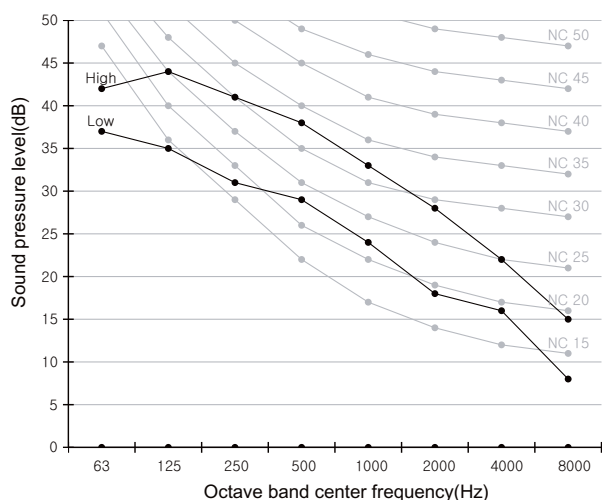
1) AM112HNHPKH/EU



2) AM128HNHPKH/EU



3) AM140HNHPKH/EU



6 Sound power level

Duct S

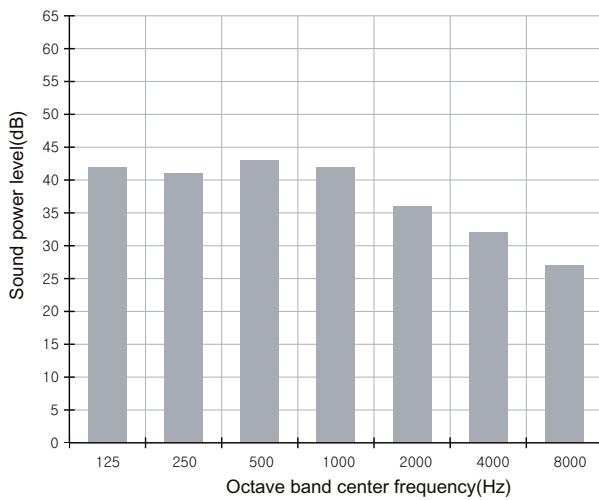
Note

- dBA = A-Weighted sound power level.
- Reference power : 1pW
- Measured according to ISO 3741.

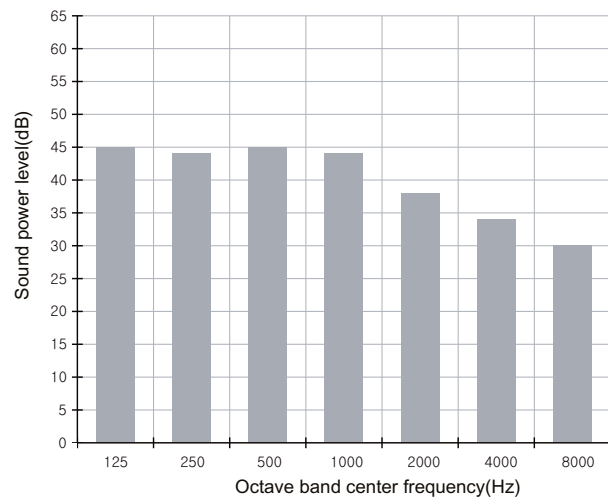
Unit: dB(A)

Model	Power
AM036HNMPKH/EU	47.0
AM045HNMPKH/EU	49.0
AM056HNMPKH/EU	49.0
AM071HNMPKH/EU	57.0

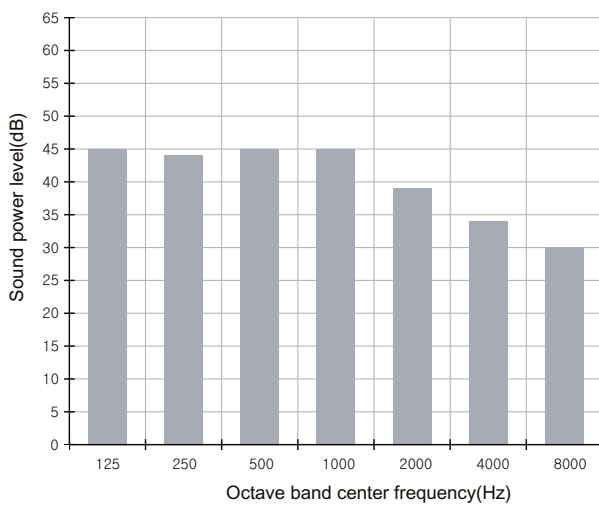
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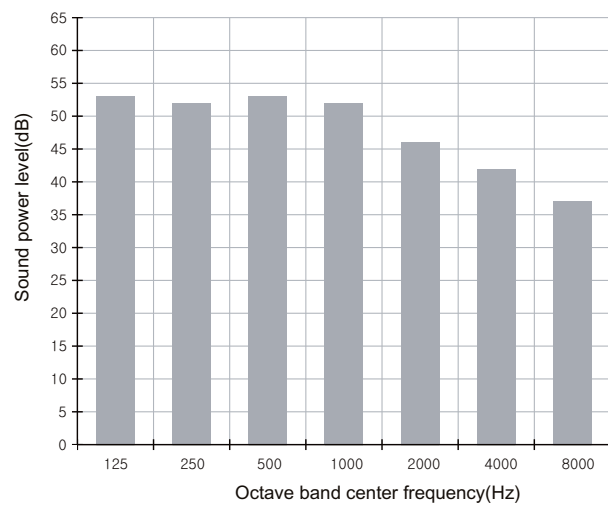
2)AM045HNMPKH/EU



3)AM056HNMPKH/EU



4)AM071HNMPKH/EU



6 Sound power level

Duct S

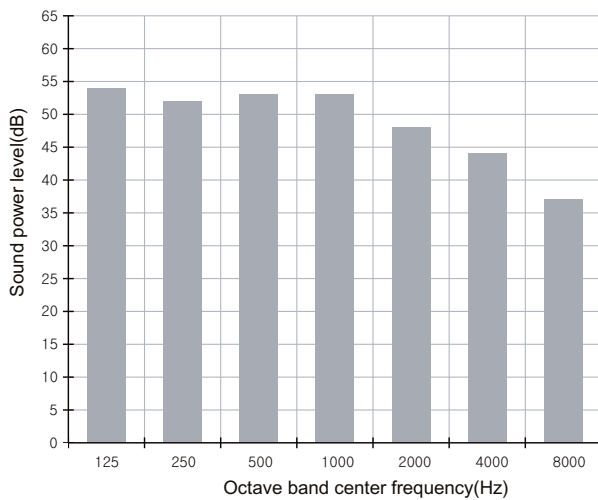
Note

- dBA = A-Weighted sound power level.
- Reference power : 1pW
- Measured according to ISO 3741.

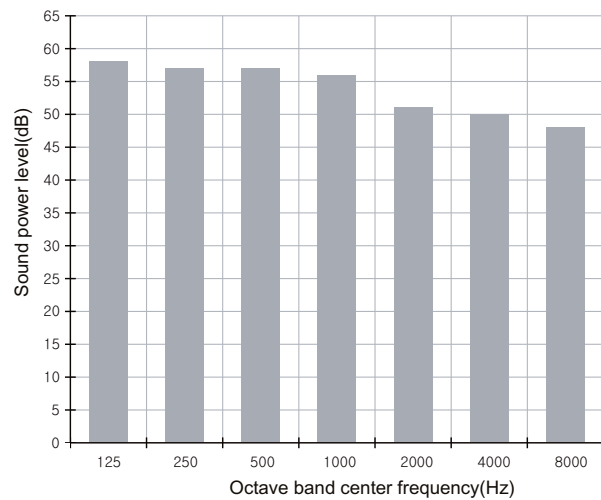
Unit: dB(A)

Model	Power
AM090HNMPKH/EU	58.0
AM112HNMPKH/EU	62.0
AM128HNMPKH/EU	62.0
AM140HNMPKH/EU	64.0

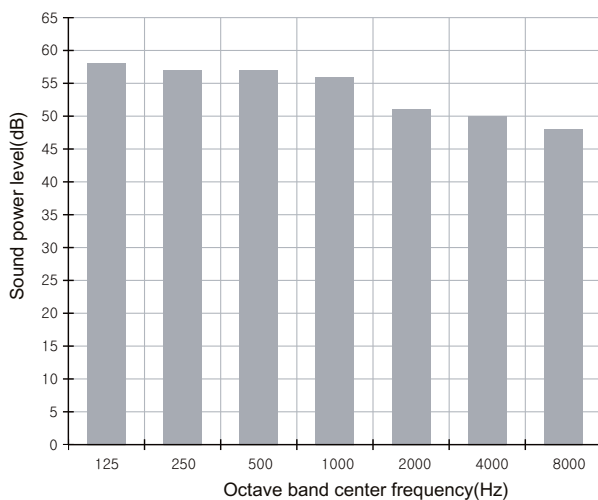
1)AM090HNMPKH/EU



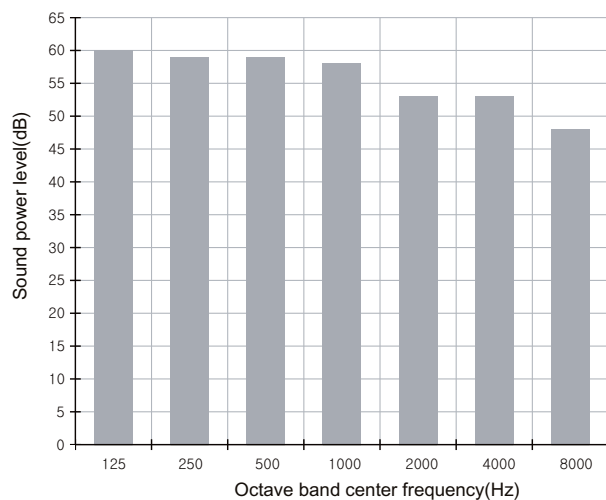
2)AM112HNMPKH/EU



3)AM128HNMPKH/EU



4)AM140HNMPKH/EU



6 Sound power level

Duct S

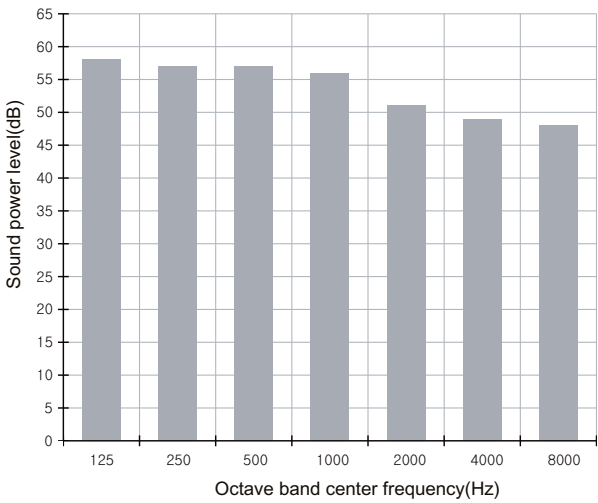
Note

- dBA = A-Weighted sound power level.
- Reference power : 1pW
- Measured according to ISO 3741.

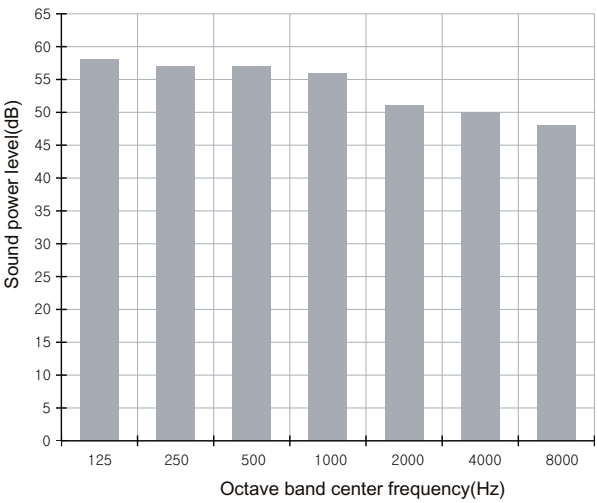
Unit: dB(A)

Model	Power
AM112HNHPKH/EU	63.0
AM128HNHPKH/EU	63.0
AM140HNHPKH/EU	65.0

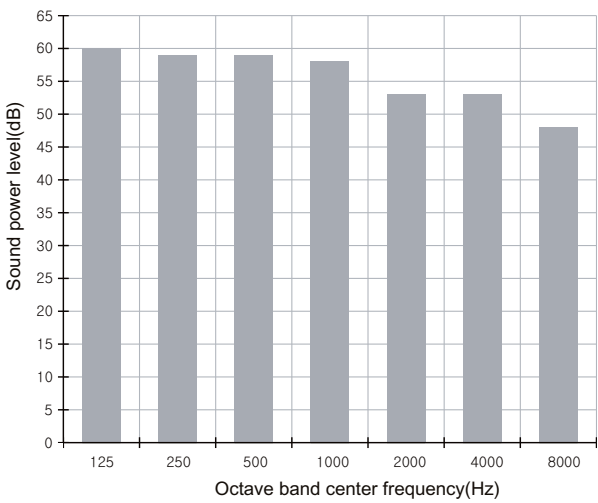
1)AM112HNHPKH/EU



2)AM128HNHPKH/EU



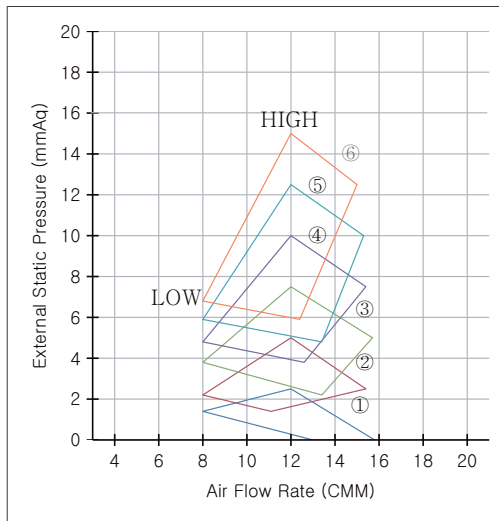
3)AM140HNHPKH/EU



7 Recommended operation range

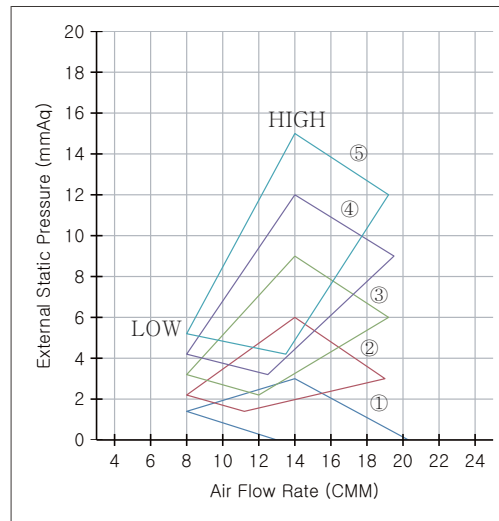
Duct S

1) AM036HNMPKH/EU



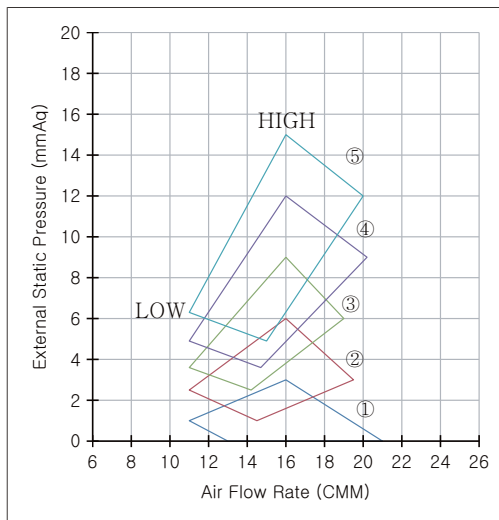
External Static Pressure (mmAq)	Option Code
① $0 \leq SP \leq 2.5$ (Default)	010054-1C5081-202424-331205
② $2.5 < SP \leq 5$	010054-1C50E3-202424-331205
③ $5 < SP \leq 7.5$	010054-1C5459-202424-331205
④ $7.5 < SP \leq 10$	010054-1C54CD-202424-331205
⑤ $10 < SP \leq 12.5$	010054-1C5931-202424-331205
⑥ $12.5 < SP \leq 15$	010054-1C5983-202424-331205

2) AM045HNMPKH/EU



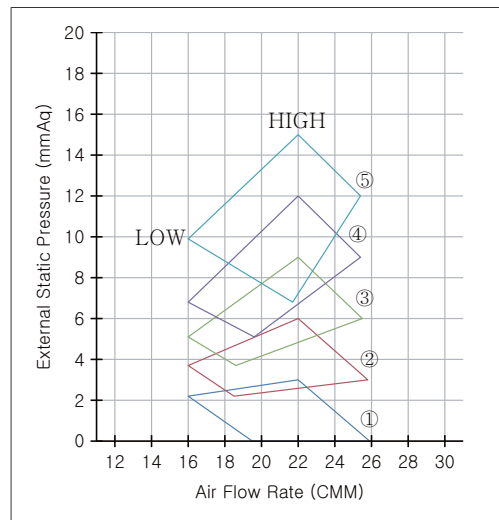
External Static Pressure (mmAq)	Option Code
① $0 \leq SP \leq 3$ (Default)	010054-1C50D1-202D2D-331204
② $3 < SP \leq 6$	010054-1C5453-202D2D-331204
③ $6 < SP \leq 9$	010054-1C54C7-202D2D-331204
④ $9 < SP \leq 12$	010054-1C583B-202D2D-331204
⑤ $12 < SP \leq 15$	010054-1C58AF-202D2D-331204

3) AM056HNMPKH/EU



External Static Pressure (mmAq)	Option Code
① $0 \leq SP \leq 3$ (Default)	010054-1C50F1-203838-331203
② $3 < SP \leq 6$	010054-1C5447-203838-331203
③ $6 < SP \leq 9$	010054-1C54AB-203838-331203
④ $9 < SP \leq 12$	010054-1C581F-203838-331203
⑤ $12 < SP \leq 15$	010054-1C5973-203838-331203

4) AM071HNMPKH/EU



External Static Pressure (mmAq)	Option Code
① $0 \leq SP \leq 3$ (Default)	010054-1C548D-204747-331201
② $3 < SP \leq 6$	010054-1C55E1-204747-331201
③ $6 < SP \leq 9$	010054-1C5935-204747-331201
④ $9 < SP \leq 12$	010054-1C5989-204747-331201
⑤ $12 < SP \leq 15$	010054-1C59DF-204747-331201

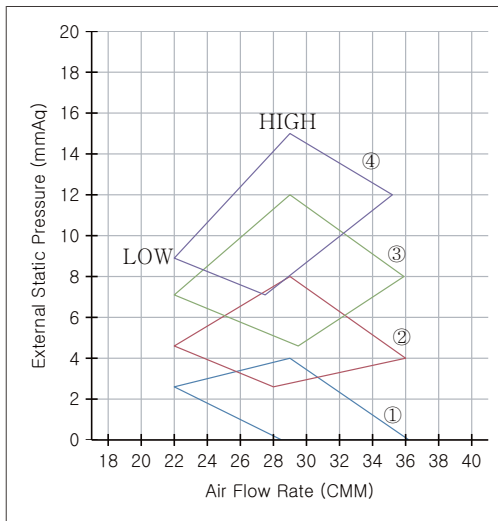
Note

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

7 Recommended operation range

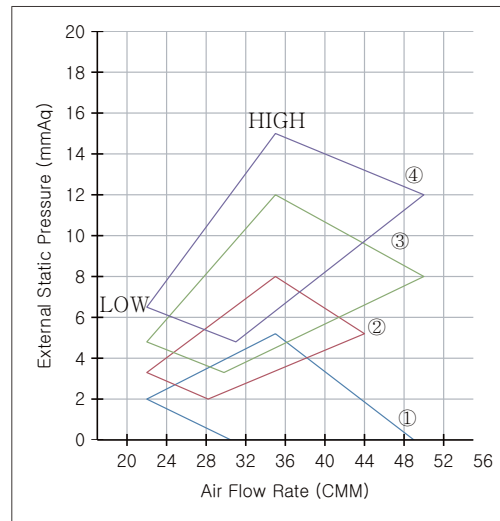
Duct S

5) AM090HNMPKH/EU



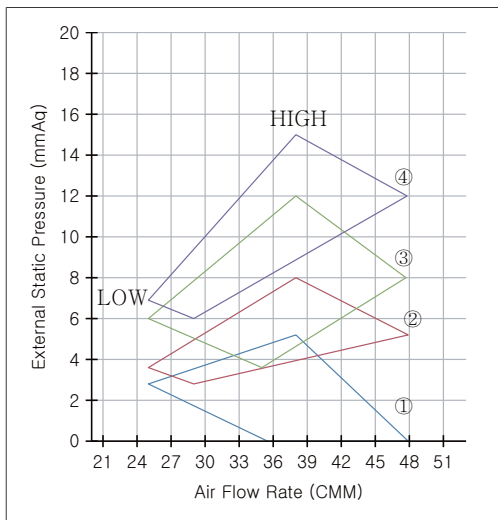
External Static Pressure (mmAq)	Option Code
① $0 \leq SP \leq 4$ (Default)	010054-1C546D-205A5A-331212
② $4 < SP \leq 8$	010054-1C55E3-205A5A-331212
③ $8 < SP \leq 12$	010054-1C5969-205A5A-331212
④ $12 < SP \leq 15$	010054-1C59CD-205A5A-331212

7) AM112HNMPKH/EU



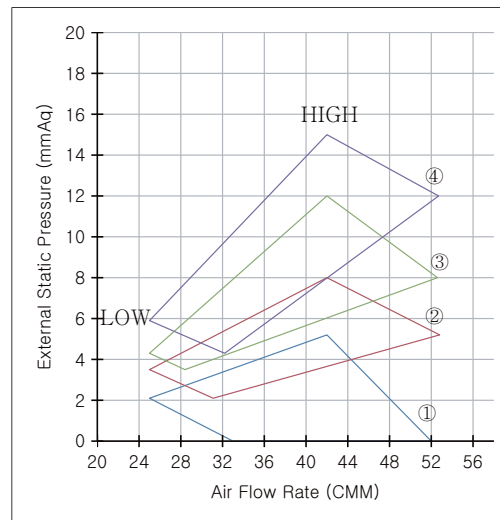
External Static Pressure (mmAq)	Option Code
① $0 \leq SP \leq 5.2$ (Default)	010054-1C5412-207070-331223
② $5.2 < SP \leq 8$	010054-1C5466-207070-331223
③ $8 < SP \leq 12$	010054-1C54EA-207070-331223
④ $12 < SP \leq 15$	010054-1C583E-207070-331223

9) AM128HNMPKH/EU



External Static Pressure (mmAq)	Option Code
① $0 \leq SP \leq 5.2$ (Default)	010054-1C5426-208080-331222
② $5.2 < SP \leq 8$	010054-1C5478-208080-331222
③ $8 < SP \leq 12$	010054-1C54EE-208080-331222
④ $12 < SP \leq 15$	010054-1C5920-208080-331222

11) AM140HNMPKH/EU



External Static Pressure (mmAq)	Option Code
① $0 \leq SP \leq 5.2$ (Default)	010054-1C5444-208C8C-331221
② $5.2 < SP \leq 8$	010054-1C5498-208C8C-331221
③ $8 < SP \leq 12$	010054-1C54FA-208C8C-331221
④ $12 < SP \leq 15$	010054-1C583E-208C8C-331221

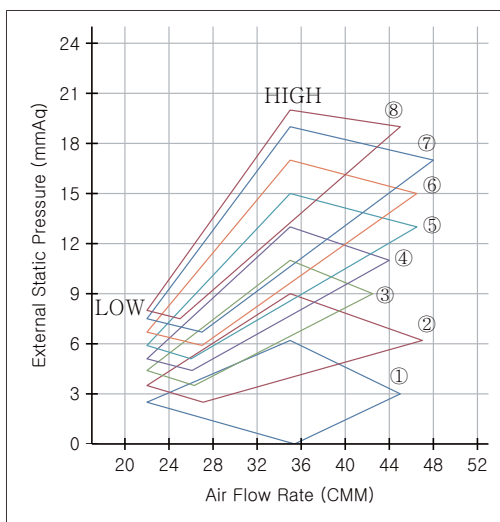
Note

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

7 Recommended operation range

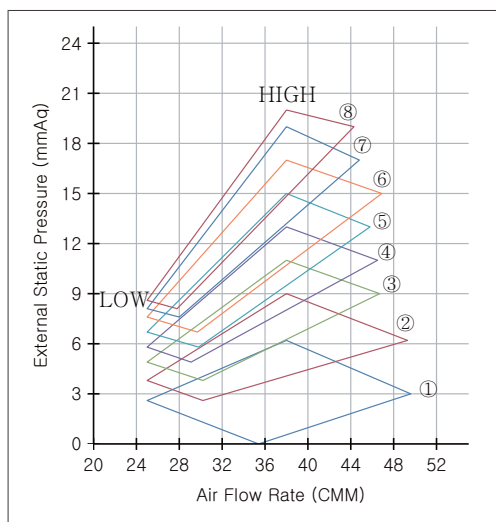
Duct S

6) AM112HNHPKH/EU



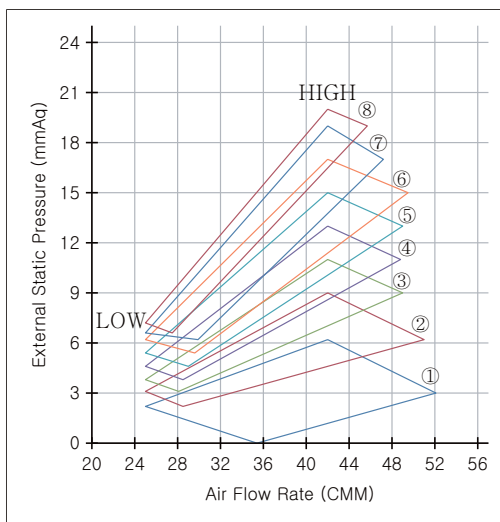
External Static Pressure (mmAq)	Option Code
① 3≤SP≤6.2 (Default)	010054-1C5446-207070-331226
② 6.2<SP≤9	010054-1C54A7-207070-331226
③ 9<SP≤11	010054-1C54C9-207070-331226
④ 11<SP≤13	010054-1C580B-207070-331226
⑤ 13<SP≤15	010054-1C584D-207070-331226
⑥ 15<SP≤17	010054-1C587F-207070-331226
⑦ 17<SP≤19	010054-1C59A1-207070-331226
⑧ 19<SP≤20	010054-1C59B2-207070-331226

8) AM128HNHPKH/EU



External Static Pressure (mmAq)	Option Code
① 3≤SP≤6.2 (Default)	010054-1C5466-208080-331225
② 6.2<SP≤9	010054-1C54B9-208080-331225
③ 9<SP≤11	010054-1C54EC-208080-331225
④ 11<SP≤13	010054-1C581E-208080-331225
⑤ 13<SP≤15	010054-1C5940-208080-331225
⑥ 15<SP≤17	010054-1C5982-208080-331225
⑦ 17<SP≤19	010054-1C59B3-208080-331225
⑧ 19<SP≤20	010054-1C59C4-208080-331225

10) AM140HNHPKH/EU



External Static Pressure (mmAq)	Option Code
① 3≤SP≤6.2 (Default)	010054-1C5486-208C8C-331224
② 6.2<SP≤9	010054-1C54D7-208C8C-331224
③ 9<SP≤11	010054-1C5809-208C8C-331224
④ 11<SP≤13	010054-1C583B-208C8C-331224
⑤ 13<SP≤15	010054-1C586D-208C8C-331224
⑥ 15<SP≤17	010054-1C588F-208C8C-331224
⑦ 17<SP≤19	010054-1C59C0-208C8C-331224
⑧ 19<SP≤20	010054-1C59D1-208C8C-331224

Note

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

Big Duct

1 Specifications

2 Capacity table

3 Dimensional drawing

4 Electrical wiring diagram

5 Sound pressure level

6 Sound power level

7 Recommended operation range

1 Specifications

Big Duct

Type				HSP Duct		HSP Duct	
Model				AM180JNHFKH/EU		AM224JNHFKH/EU	
Power Supply			Ø, #, V, Hz	1,2,220-240,50		1,2,220-240,50	
Mode			-	HP/HR		HP/HR	
Performance	Capacity (Nominal)	Cooling	kW	18.00		22.40	
			Btu/h	61,400		76,400	
		Heating	kW	20.00		25.00	
			Btu/h	68,200		85,300	
Power	Power Input (Nominal)	Cooling	W	340.00		530.00	
		Heating		340.00		530.00	
	Current Input (Nominal)	Cooling	A	1.90		2.90	
		Heating		1.90		2.90	
Fan	Motor	Type	-	Sirocco		Sirocco	
		Output x n	w	630 x 1		630 x 1	
	Air Flow Rate	H/M/L (UL)	CMM	58.00 / 50.00 / 43.00		72.00 / 61.00 / 50.00	
			l/s	966.67 / 833.33 / 716.67		1,200.00 / 1,016.67 / 833.33	
	External Pressure	Min/Std/Max	mmAq	5.00 / 7.34 / 20.00		5.00 / 7.34 / 20.00	
			Pa	49.00 / 71.93 / 196.00		49.00 / 71.93 / 196.00	
Piping Connections	Liquid Pipe		Ø, mm	9.52		9.52	
			Ø, inch	3/8"		3/8"	
	Gas Pipe		Ø, mm	19.05		19.05	
			Ø, inch	3/4"		3/4"	
	Drain Pipe		Ø, mm	VP25 (OD 25,ID 20)		VP25 (OD 25,ID 20)	
Field Wiring	Power Source Wire		mm²	-		-	
	Transmission Cable		mm²	0.75 - 1.50		0.75 - 1.50	
Refrigerant	Type		-	R410A		R410A	
	Control Method		-	EEV(O)		EEV(O)	
Sound	Pressure	High / Mid / Low	dB(A)	43.0 / 39.0 / 35.0		44.0 / 40.0 / 36.0	
	Power	Cooling		80.0		81.0	
Dimension	Net Weight		kg	82.50		82.50	
	Shipping Weight		kg	92.00		92.00	
	Net Dimensions (WxHxD)		mm	1,350 x 450 x 910		1,350 x 450 x 910	
	Shipping Dimensions (WxHxD)		mm	1,612 x 519 x 984		1,612 x 519 x 984	
Panel Size	Panel model		-	-		-	
	Panel Net Weight		kg	-		-	
	Shipping Weight		kg	-		-	
	Net Dimensions (WxHxD)		mm	-		-	
	Shipping Dimensions (WxHxD)		mm	-		-	
Additional Accessories	Drain Pump	External	-	MDP-G075SP		MDP-G075SP	
		Internal	-	MDP-G075SQ		MDP-G075SQ	
	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 Capacity table

Big Duct

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity

Model	Outdoor temperature (°C, DB)	Indoor temperature (°C, WB)													
		14.0		16.0		18.0		19.0		20.0		22.0		24.0	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
18.00	10	12.76	10.21	15.02	11.42	17.05	12.79	18.00	13.50	19.10	12.41	21.06	12.64	22.31	12.94
	12	12.76	10.21	15.02	11.42	17.05	12.79	18.00	13.50	19.10	12.41	21.06	12.64	22.31	12.94
	14	12.76	10.21	15.02	11.42	17.05	12.79	18.00	13.50	19.10	12.41	21.06	12.64	22.31	12.94
	16	12.76	10.21	15.02	11.42	17.05	12.79	18.00	13.50	19.10	12.41	21.06	12.64	22.31	12.94
	18	12.76	10.21	15.02	11.42	17.05	12.79	18.00	13.50	19.10	12.41	21.06	12.64	22.21	12.88
	20	12.76	10.21	15.02	11.42	17.05	12.79	18.00	13.50	19.10	12.41	21.06	12.64	21.90	12.70
	21	12.76	10.21	15.02	11.42	17.05	12.79	18.00	13.50	19.10	12.41	21.06	12.64	21.92	12.71
	23	12.76	10.21	15.02	11.42	17.05	12.79	18.00	13.50	19.10	12.41	21.06	12.64	21.61	12.53
	25	12.76	10.21	15.02	11.42	17.05	12.79	18.00	13.50	19.10	12.41	21.06	12.64	21.54	12.49
	27	12.76	10.21	15.02	11.42	17.05	12.79	18.00	13.50	19.10	12.41	21.06	12.64	21.54	12.49
	29	12.76	10.21	15.02	11.42	17.05	12.79	18.00	13.50	19.10	12.41	21.06	12.64	21.54	12.49
	31	12.76	10.21	15.02	11.42	17.05	12.79	18.00	13.50	19.10	12.41	21.06	12.64	21.54	12.49
	33	12.76	10.21	15.02	11.42	17.05	12.79	18.00	13.50	19.10	12.41	21.06	12.64	21.54	12.49
	35	12.76	10.21	15.02	11.42	17.05	12.79	18.00	13.50	19.10	12.41	21.06	12.64	21.54	12.49
	37	12.58	10.06	14.81	11.26	16.90	12.68	18.00	13.50	19.00	12.35	20.77	12.46	21.23	12.31
	39	12.42	9.94	14.62	11.11	16.90	12.68	17.90	13.42	19.00	12.35	20.52	12.31	20.96	12.16
	42	12.19	9.75	14.35	10.91	16.59	12.45	17.57	13.18	18.66	12.13	20.15	12.09	20.57	11.93
	44	12.01	9.61	14.14	10.75	16.35	12.27	17.32	12.99	18.39	11.95	19.86	11.92	20.27	11.75
	46	11.78	9.43	13.87	10.54	16.04	12.03	16.99	12.75	18.05	11.73	19.49	11.69	19.87	11.53
22.40	10	15.96	11.97	18.75	13.68	21.24	15.29	22.40	15.68	23.79	16.18	25.99	15.85	27.53	15.69
	12	15.96	11.97	18.75	13.68	21.24	15.29	22.40	15.68	23.79	16.18	25.99	15.85	27.53	15.69
	14	15.96	11.97	18.75	13.68	21.24	15.29	22.40	15.68	23.79	16.18	25.99	15.85	27.53	15.69
	16	15.96	11.97	18.75	13.68	21.24	15.29	22.40	15.68	23.79	16.18	25.99	15.85	27.53	15.69
	18	15.96	11.97	18.75	13.68	21.24	15.29	22.40	15.68	23.79	16.18	25.99	15.85	27.53	15.69
	20	15.96	11.97	18.75	13.68	21.24	15.29	22.40	15.68	23.79	16.18	25.99	15.85	27.24	15.53
	21	15.96	11.97	18.75	13.68	21.24	15.29	22.40	15.68	23.79	16.18	25.99	15.85	27.19	15.50
	23	15.96	11.97	18.75	13.68	21.24	15.29	22.40	15.68	23.79	16.18	25.99	15.85	26.77	15.26
	25	15.96	11.97	18.75	13.68	21.24	15.29	22.40	15.68	23.79	16.18	25.99	15.85	26.77	15.26
	27	15.96	11.97	18.75	13.68	21.24	15.29	22.40	15.68	23.79	16.18	25.99	15.85	26.77	15.26
	29	15.96	11.97	18.75	13.68	21.24	15.29	22.40	15.68	23.79	16.18	25.99	15.85	26.77	15.26
	31	15.96	11.97	18.75	13.68	21.24	15.29	22.40	15.68	23.79	16.18	25.99	15.85	26.77	15.26
	33	15.96	11.97	18.75	13.68	21.24	15.29	22.40	15.68	23.79	16.18	25.99	15.85	26.77	15.26
	35	15.96	11.97	18.75	13.68	21.24	15.29	22.40	15.68	23.79	16.18	25.99	15.85	26.77	15.26
	37	15.74	11.80	18.48	13.49	21.01	15.13	22.40	15.68	23.69	16.11	25.63	15.63	26.39	15.04
	39	15.54	11.66	18.25	13.32	21.01	15.13	22.30	15.61	23.54	16.00	25.32	15.44	26.06	14.85
	42	15.26	11.44	17.92	13.08	20.63	14.85	21.90	15.33	23.12	15.72	24.86	15.17	25.57	14.58
	44	15.04	11.28	17.66	12.89	20.34	14.64	21.59	15.11	22.79	15.50	24.51	14.95	25.20	14.36
	46	14.76	11.07	17.32	12.65	19.95	14.37	21.19	14.83	22.37	15.21	24.06	14.67	24.71	14.09

2 Capacity table

Big Duct

Heating

TC : Total Capacity

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
18.00	-20	-21	16.32	15.73	14.90	14.20	13.67
	-17	-18	16.69	16.09	15.23	14.87	14.72
	-15	-16	17.26	16.64	15.75	15.41	15.19
	-12	-13	18.35	17.68	16.74	16.23	16.09
	-10	-11	19.62	18.90	17.89	17.13	16.92
	-7	-8	20.16	19.42	18.38	17.83	17.59
	-5	-6	20.74	19.98	18.90	18.51	18.07
	-3	-4	21.20	20.42	19.32	19.15	18.45
	0	-1	21.67	20.98	19.75	19.34	18.84
	3	2	22.11	21.36	20.00	19.40	18.81
	5	4	22.35	21.36	20.00	19.40	18.81
	7	6	22.69	21.36	20.00	19.40	18.81
	9	8	22.69	21.36	20.00	19.40	18.81
	11	10	22.69	21.36	20.00	19.40	18.81
	13	12	22.69	21.36	20.00	19.40	18.81
	15	14	22.69	21.36	20.00	19.40	18.81
22.40	-20	-21	20.33	19.58	18.52	17.63	16.96
	-17	-18	20.80	20.03	18.94	18.42	18.10
	-15	-16	21.52	20.73	19.60	19.11	18.70
	-12	-13	22.90	22.05	20.85	20.17	19.84
	-10	-11	24.51	23.60	22.32	21.40	21.10
	-7	-8	25.20	24.26	22.94	22.25	21.75
	-5	-6	25.94	24.97	23.61	23.10	22.36
	-3	-4	26.53	25.54	24.14	23.73	22.84
	0	-1	27.12	26.23	24.68	24.17	23.34
	3	2	27.68	26.69	25.00	24.17	23.48
	5	4	27.93	26.69	25.00	24.17	23.48
	7	6	28.23	26.69	25.00	24.17	23.48
	9	8	28.23	26.69	25.00	24.17	23.48
	11	10	28.23	26.69	25.00	24.17	23.48
	13	12	28.23	26.69	25.00	24.17	23.48
	15	14	28.23	26.69	25.00	24.17	23.48

3 Dimensional drawing

Big Duct

AM180JNHFKH/EU, AM224JNHFKH/EU

Units : mm / inches

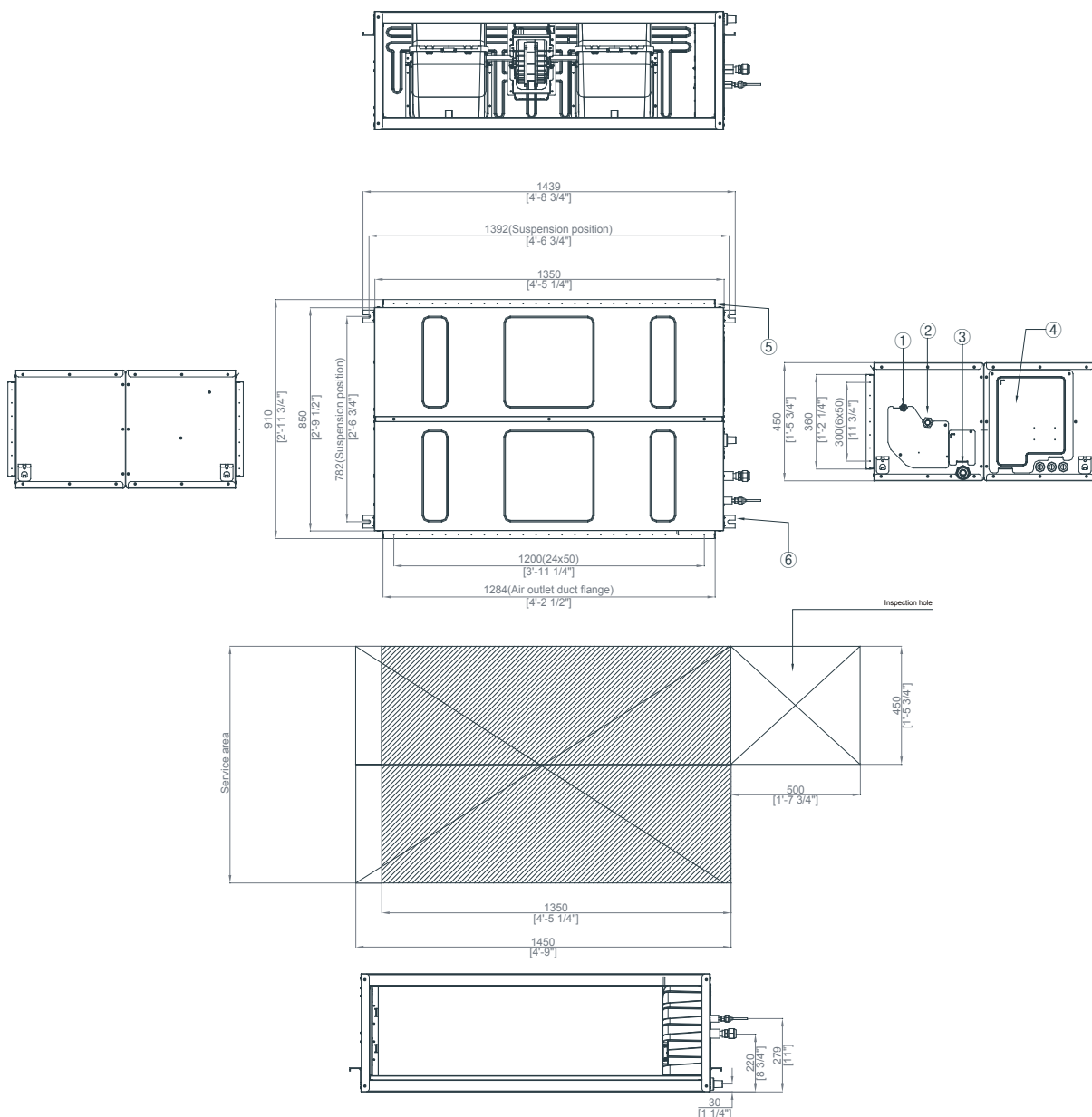


Table of descriptions

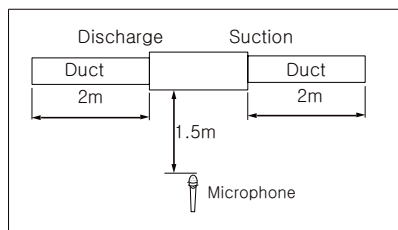
1	Liquid pipe connection	7	
2	Gas pipe connection	8	
3	Drain pipe connection	9	
4	Power supply connection	10	
5	Air discharge flange	11	
6	Hook	12	

AM180JNHFKH/EU, AM224JNHFKH/EU



5 Sound pressure level

Big Duct



Unit: dB(A)

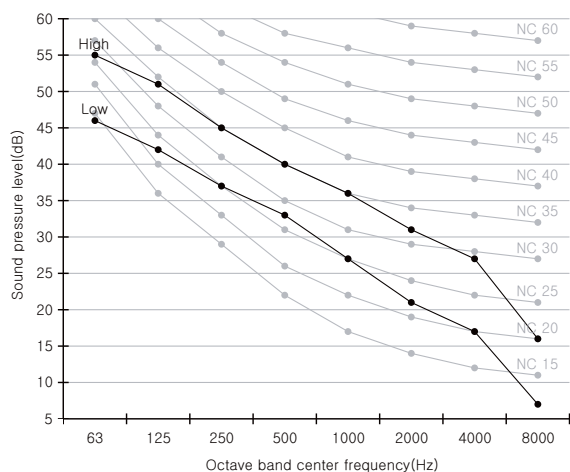
Model	High	Low
AM180JNHFKH/EU	43.0	35.0
AM224JNHFKH/EU	44.0	36.0

Note

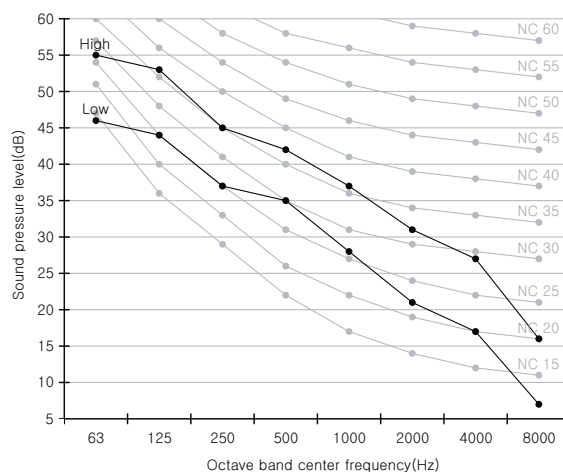
- These operation values were obtained in an anechoic room.
- Sound pressure level will vary depending on a factors such as the construction of the particular room where the equipment is installed.

NC curve

1) AM180JNHFKH/EU



2) AM224JNHFKH/EU



6 Sound power level

Big Duct

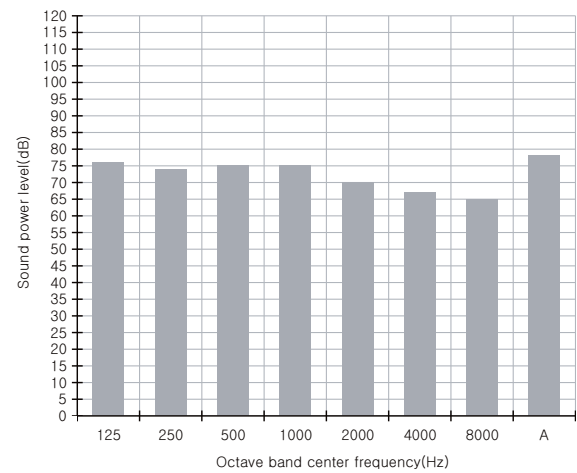
Note

- dBA = A-Weighted sound power level.
- Reference power : 1pW
- Measured according to ISO 3741.

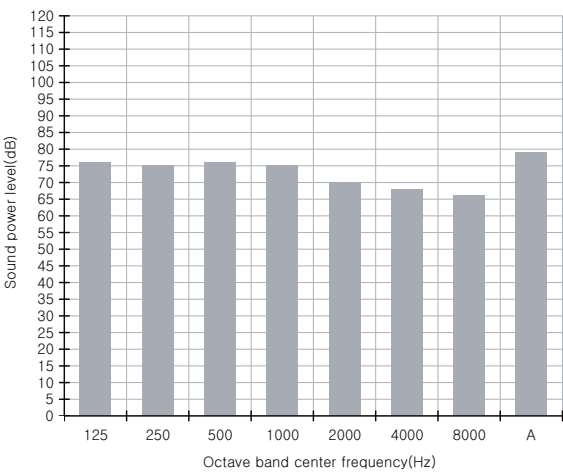
Unit: dB(A)

Model	Power
AM180JNHFKH/EU	80.0
AM224JNHFKH/EU	81.0

1)AM180JNHFKH/EU



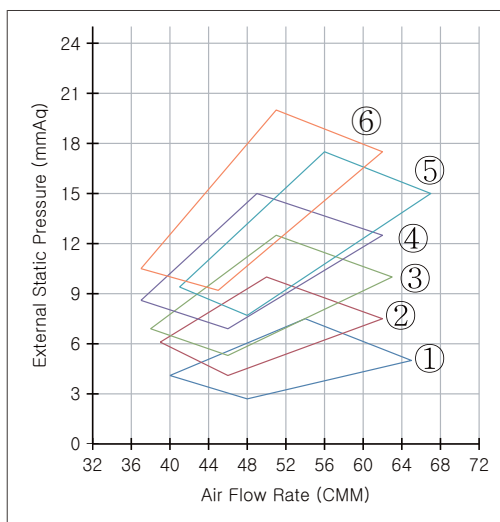
2)AM224JNHFKH/EU



7 Recommended operation range

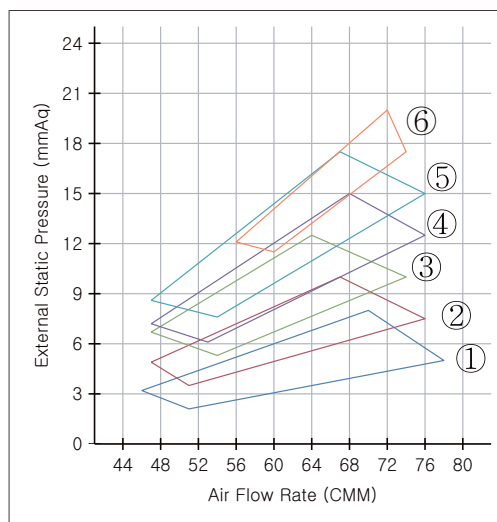
Big Duct

1) AM180JNHFKH/EU



External Static Pressure (mmAq)	Option Code
① $5 \leq SP < 7.5$	012074-1C5080-20B4B4-331110
② $7.5 \leq SP < 10$	012074-1C50A1-20B4B4-331110
③ $10 \leq SP < 12.5$	012074-1C50D3-20B4B4-331110
④ $12.5 \leq SP < 15$	012074-1C50F5-20B4B4-331110
⑤ $15 \leq SP < 17.5$	012074-1C5437-20B4B4-331110
⑥ $17.5 \leq SP \leq 20$	012074-1C5448-20B4B4-331110

2) AM224JNHFKH/EU



External Static Pressure (mmAq)	Option Code
① $5 \leq SP < 7.5$	012074-1C50C0-20E0E0-331110
② $7.5 \leq SP < 10$	012074-1C50E3-20E0E0-331110
③ $10 \leq SP < 12.5$	012074-1C50F5-20E0E0-331110
④ $12.5 \leq SP < 15$	012074-1C5436-20E0E0-331110
⑤ $15 \leq SP < 17.5$	012074-1C5458-20E0E0-331110
⑥ $17.5 \leq SP \leq 20$	012074-1C548E-20E0E0-331110

Note

- Adjust option code according to the actual installation condition (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.

Slim Duct

1 Specifications

2 Capacity table

3 Dimensional drawing

4 Electrical wiring diagram

5 Sound pressure level

6 Recommended operation range

1 Specifications

Slim Duct

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		-	MDP-E075SEE3D	MDP-E075SEE3D	MDP-E075SEE3D	MDP-E075SEE3D	MDP-E075SEE3D	MDP-E075SEE3D
	Drain Pump	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.

1 Specifications

Slim Duct

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.

2 Capacity table

Slim Duct

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)	20 (°C, WB)	20 (°C, WB)	22 (°C, WB)	24 (°C, WB)				
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	2.2	1.6	2.3	1.6	2.4	1.6	2.6	1.5			
39	1.5	1.2	1.8	1.4	2.1	1.6	2.2	1.6	2.3	1.6	2.4	1.6	2.5	1.4			
028	10	1.9	1.6	2.3	1.8	2.6	1.9	2.8	2.0	2.9	2.0	3.1	2.0	3.4	2.0		
	12	1.9	1.6	2.3	1.8	2.6	1.9	2.8	2.0	2.9	2.0	3.1	2.0	3.3	1.9		
	14	1.9	1.6	2.3	1.8	2.6	1.9	2.8	2.0	2.9	2.0	3.1	2.0	3.3	1.9		
	16	1.9	1.6	2.3	1.8	2.6	1.9	2.8	2.0	2.9	2.0	3.1	2.0	3.3	1.9		
	18	1.9	1.6	2.3	1.8	2.6	1.9	2.8	2.0	2.9	2.0	3.1	2.0	3.3	1.9		
	20	1.9	1.6	2.3	1.8	2.6	1.9	2.8	2.0	2.9	2.0	3.1	2.0	3.3	1.9		
	21	1.9	1.6	2.3	1.8	2.6	1.9	2.8	2.0	2.9	2.0	3.1	2.0	3.3	1.9		
	23	1.9	1.6	2.3	1.8	2.6	1.9	2.8	2.0	2.9	2.0	3.1	2.0	3.3	1.9		
	25	1.9	1.6	2.3	1.8	2.6	1.9	2.8	2.0	2.9	2.0	3.1	2.0	3.3	1.9		
	27	1.9	1.6	2.3	1.8	2.6	1.9	2.8	2.0	2.9	2.0	3.1	2.0	3.3	1.9		
	29	1.9	1.6	2.3	1.8	2.6	1.9	2.8	2.0	2.9	2.0	3.1	2.0	3.3	1.9		
	31	1.9	1.6	2.3	1.8	2.6	1.9	2.8	2.0	2.9	2.0	3.1	2.0	3.3	1.9		
	33	1.9	1.6	2.3	1.8	2.6	1.9	2.8	2.0	2.9	2.0	3.1	2.0	3.3	1.9		
	35	1.9	1.6	2.3	1.8	2.6	1.9	2.8	2.0	2.9	2.0	3.1	2.0	3.3	1.9		
37	1.9	1.6	2.3	1.8	2.6	1.9	2.8	2.0	2.9	2.0	3.1	2.0	3.3	1.9			
39	1.9	1.6	2.3	1.8	2.6	1.9	2.8	2.0	2.9	2.0	3.0	1.9	3.2	1.8			
036	10	2.5	2.0	2.9	2.3	3.4	2.5	3.6	2.6	3.7	2.6	4.0	2.6	4.3	2.5		
	12	2.5	2.0	2.9	2.3	3.4	2.5	3.6	2.6	3.7	2.6	4.0	2.6	4.3	2.5		
	14	2.5	2.0	2.9	2.3	3.4	2.5	3.6	2.6	3.7	2.6	4.0	2.6	4.3	2.5		
	16	2.5	2.0	2.9	2.3	3.4	2.5	3.6	2.6	3.7	2.6	4.0	2.6	4.3	2.5		
	18	2.5	2.0	2.9	2.3	3.4	2.5	3.6	2.6	3.7	2.6	4.0	2.6	4.2	2.4		
	20	2.5	2.0	2.9	2.3	3.4	2.5	3.6	2.6	3.7	2.6	4.0	2.6	4.2	2.4		
	21	2.5	2.0	2.9	2.3	3.4	2.5	3.6	2.6	3.7	2.6	4.0	2.6	4.2	2.4		
	23	2.5	2.0	2.9	2.3	3.4	2.5	3.6	2.6	3.7	2.6	4.0	2.6	4.2	2.4		
	25	2.5	2.0	2.9	2.3	3.4	2.5	3.6	2.6	3.7	2.6	4.0	2.6	4.2	2.4		
	27	2.5	2.0	2.9	2.3	3.4	2.5	3.6	2.6	3.7	2.6	4.0	2.6	4.2	2.4		
	29	2.5	2.0	2.9	2.3	3.4	2.5	3.6	2.6	3.7	2.6	4.0	2.6	4.2	2.4		
	31	2.5	2.0	2.9	2.3	3.4	2.5	3.6	2.6	3.7	2.6	4.0	2.6	4.2	2.4		
	33	2.5	2.0	2.9	2.3	3.4	2.5	3.6	2.6	3.7	2.6	4.0	2.6	4.2	2.4		
	35	2.5	2.0	2.9	2.3	3.4	2.5	3.6	2.6	3.7	2.6	4.0	2.6	4.2	2.4		
37	2.5	2.0	2.9	2.3	3.4	2.5	3.6	2.6	3.7	2.6	3.9	2.5	4.2	2.4			
39	2.5	2.0	2.9	2.3	3.4	2.5	3.6	2.6	3.7	2.6	3.9	2.5	4.1	2.3			
045	10	3.1	2.6	3.7	3.0	4.2	3.1	4.5	3.2	4.7	3.2	5.0	3.2	5.4	3.3		
	12	3.1	2.6	3.7	3.0	4.2	3.1	4.5	3.2	4.7	3.2	5.0	3.2	5.4	3.3		
	14	3.1	2.6	3.7	3.0	4.2	3.1	4.5	3.2	4.7	3.2	5.0	3.2	5.4	3.3		
	16	3.1	2.6	3.7	3.0	4.2	3.1	4.5	3.2	4.7	3.2	5.0	3.2	5.3	3.0		
	18	3.1	2.6	3.7	3.0	4.2	3.1	4.5	3.2	4.7	3.2	5.0	3.2	5.3	3.0		
	20	3.1	2.6	3.7	3.0	4.2	3.1	4.5	3.2	4.7	3.2	5.0	3.2	5.3	3.0		
	21	3.1	2.6	3.7	3.0	4.2	3.1	4.5	3.2	4.7	3.2	5.0	3.2	5.3	3.0		
	23	3.1	2.6	3.7	3.0	4.2	3.1	4.5	3.2	4.7	3.2	5.0	3.2	5.3	3.0		
	25	3.1	2.6	3.7	3.0	4.2	3.1	4.5	3.2	4.7	3.2	5.0	3.2	5.3	3.0		
	27	3.1	2.6	3.7	3.0	4.2	3.1	4.5	3.2	4.7	3.2	5.0	3.2	5.3	3.0		
	29	3.1	2.6	3.7	3.0	4.2	3.1	4.5	3.2	4.7	3.2	5.0	3.2	5.3	3.0		
	31	3.1	2.6	3.7	3.0	4.2	3.1	4.5	3.2	4.7	3.2	5.0	3.2	5.3	3.0		
	33	3.1	2.6	3.7	3.0	4.2	3.1	4.5	3.2	4.7	3.2	5.0	3.2	5.3	3.0		
	35	3.1	2.6	3.7	3.0	4.2	3.1	4.5	3.2	4.7	3.2	5.0	3.2	5.3	3.0		
37	3.1	2.6	3.7	3.0	4.2	3.1	4.5	3.2	4.6	3.1	4.9	3.1	5.2	3.0			
39	3.1	2.6	3.7	3.0	4.2	3.1	4.5	3.2	4.6	3.1	4.9	3.1	5.1	2.9			
056	10	3.9	3.1	4.6	3.6	5.3	3.8	5.6	4.0	5.8	4.0	6.3	4.1	6.7	3.9		
	12	3.9	3.1	4.6	3.6	5.3	3.8	5.6	4.0	5.8	4.0	6.3	4.1	6.7	3.9		
	14	3.9	3.1	4.6	3.6	5.3	3.8	5.6	4.0	5.8	4.0	6.2	4.0	6.7	3.9		
	16	3.9	3.1	4.6	3.6	5.3	3.8	5.6	4.0	5.8	4.0	6.2	4.0	6.6	3.8		
	18	3.9	3.1	4.6	3.6	5.3	3.8	5.6	4.0	5.8	4.0	6.2	4.0	6.6	3.8		
	20	3.9	3.1	4.6	3.6	5.3	3.8	5.6	4.0	5.8	4.0	6.2	4.0	6.6	3.8		
	21	3.9	3.1	4.6	3.6	5.3	3.8	5.6	4.0	5.8	4.0	6.2	4.0	6.6	3.8		
	23	3.9	3.1	4.6	3.6	5.3	3.8	5.6	4.0	5.8	4.0	6.2	4.0	6.6	3.8		
	25	3.9	3.1	4.6	3.6	5.3	3.8	5.6	4.0	5.8	4.0	6.2	4.0	6.6	3.8		
	27	3.9	3.1	4.6	3.6	5.3	3.8	5.6	4.0	5.8	4.0	6.2	4.0	6.6	3.8		
	29	3.9	3.1	4.6	3.6	5.3	3.8	5.6	4.0	5.8	4.0	6.2	4.0	6.6	3.8		
	31	3.9	3.1	4.6	3.6	5.3	3.8	5.6	4.0	5.8	4.0	6.2	4.0	6.6	3.8		
	33	3.9	3.1	4.6	3.6	5.3	3.8	5.6	4.0	5.8	4.0	6.2	4.0	6.6	3.8		
	35	3.9	3.1	4.6	3.6	5.3	3.8	5.6	4.0	5.8	4.0	6.2	4.0	6.6	3.8		
37	3.9	3.1	4.6	3.6	5.3	3.8	5.6	4.0	5.8	4.0	6.1	3.9	6.5	3.7			
39	3.9	3.1	4.6	3.6	5.3	3.8	5.6	4.0	5.8	4.0	6.1	3.9	6.4	3.6			

2 Capacity table

Slim Duct

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)	
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

2 Capacity table

Slim Duct

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

2 Capacity table

Slim Duct

TC : Total Capacity(kW)

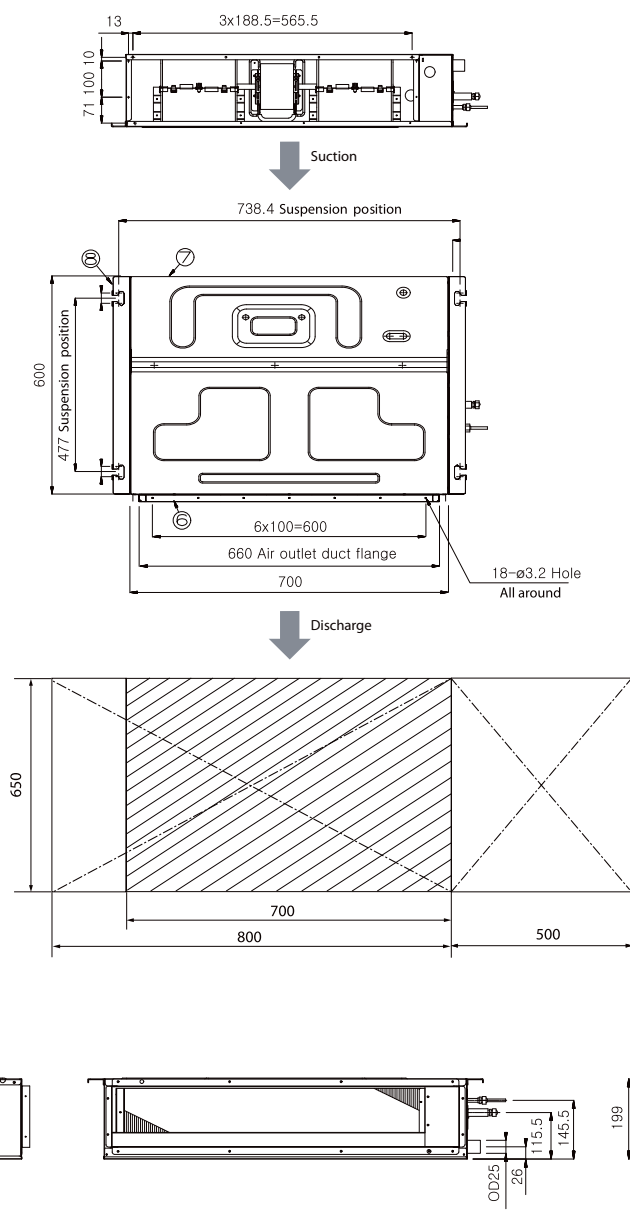
Model	Outdoor temperature (°C)		Indoor temperature (°C, DB)				
			16.0	18.0	20.0	22.0	24.0
	DB	WB	TC kW	TC kW	TC kW	TC kW	TC kW
071	-20	-21	4.9	4.9	4.8	4.7	4.7
	-17	-18	5.1	5.0	4.9	4.8	4.8
	-15	-16	5.3	5.2	5.1	4.9	4.8
	-12	-13	5.6	5.5	5.4	5.3	5.2
	-10	-11	5.9	5.8	5.7	5.6	5.6
	-7	-8	6.2	6.1	6.0	5.9	5.8
	-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
090	15	14	9.2	8.6	8.0	7.4	6.8
	-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
112	13	12	11.2	10.6	10.0	9.2	8.4
	15	14	11.6	10.8	10.0	9.2	8.4
	-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
128	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
	-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
140	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
	-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 Dimensional drawing

Slim Duct

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

Unit:mm



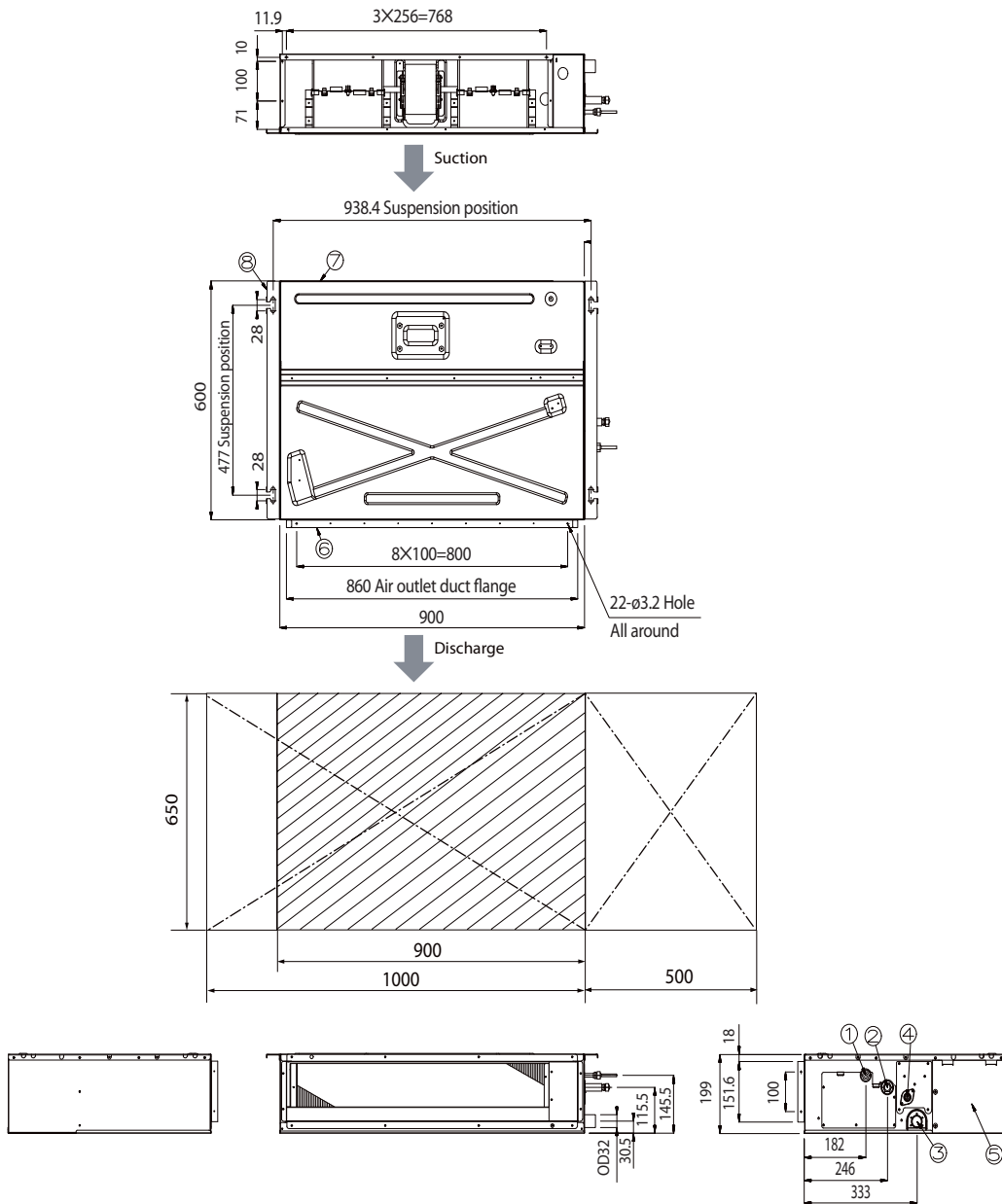
No.	Name	Description			
		1.7kW	2.2kW	2.8kW	3.6kW
①	Liquid pipe connection	Ø6.35 Flare			
②	Gas pipe connection	Ø12.70 Flare			
③	Drain pipe connection without optional drain pump kits	VP25 (OD 32, ID 25)			
④	Drain pipe connection with optional drain pump kits	VP25 (OD 32, ID 25)			
⑤	Power supply/Communication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

3 Dimensional drawing

Slim Duct

2) AM045/056FNLDEH***

Unit:mm



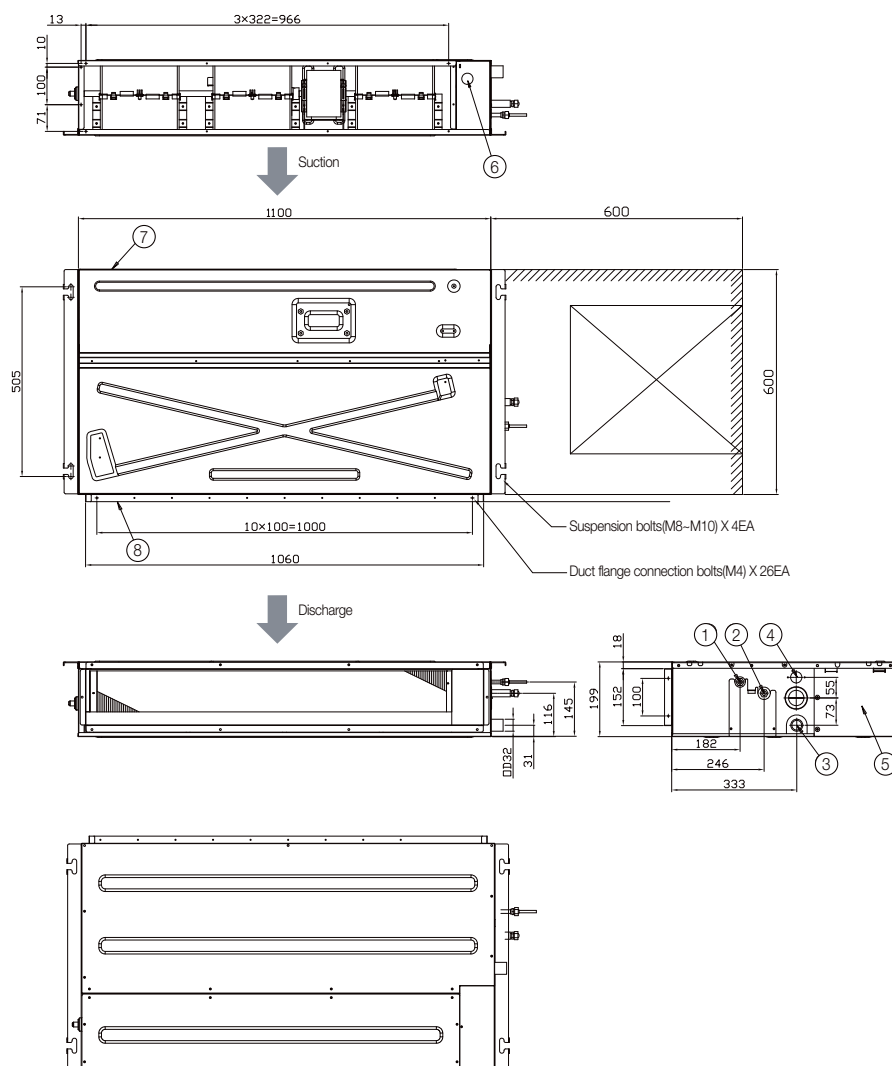
No.	Name	Description	
		4.5kW	5.6kW
①	Liquid pipe connection	Ø6.35 Flare	
②	Gas pipe connection	Ø12.70 Flare	
③	Drain pipe connection without optional drain pump kits	VP25 (OD 32, ID 25)	
④	Drain pipe connection with optional drain pump kits	VP25 (OD 32, ID 25)	
⑤	Control unit	-	
⑥	Conduit for power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

3 Dimensional drawing

Slim Duct

3) AM071FNLDEH***

Unit:mm



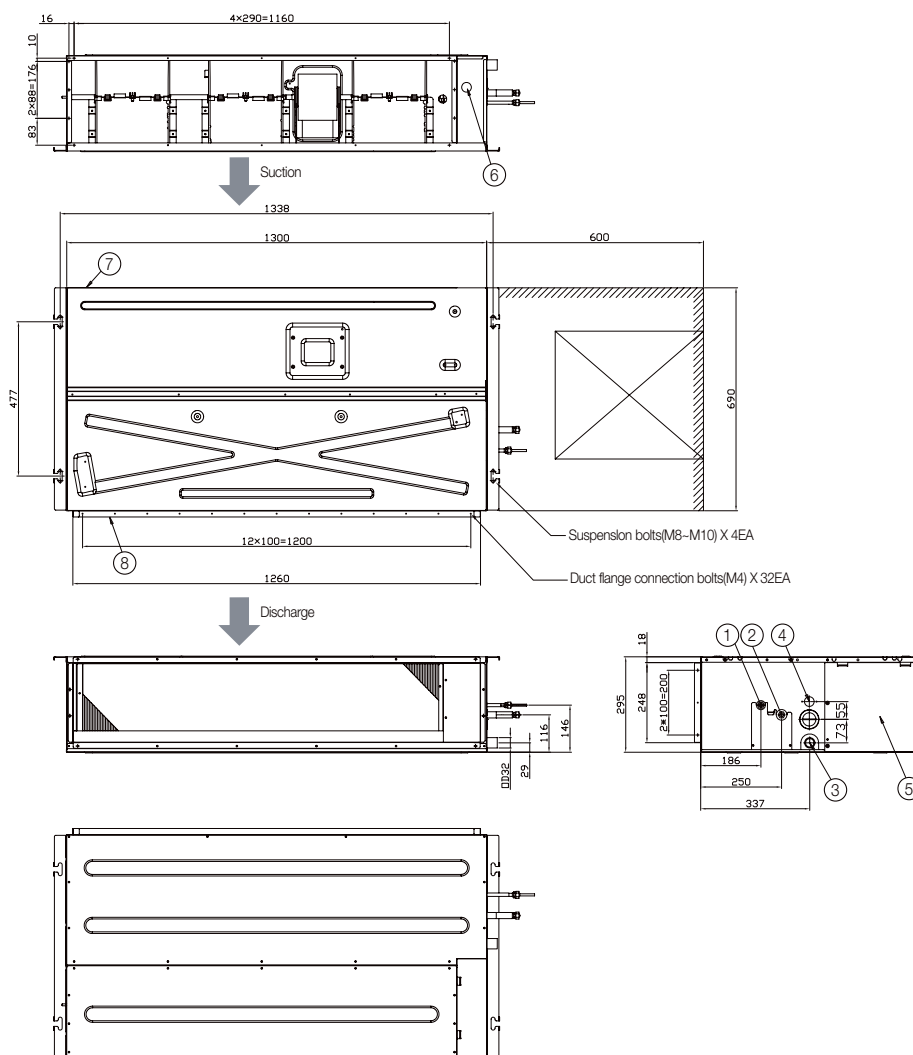
No.	Name	Description
		7.1kW
①	Liquid pipe connection	Ø9.52 Flare
②	Gas pipe connection	Ø15.88 Flare
③	Drain pipe connection without optional drain pump kits	VP25 (OD 32, ID 25)
④	Drain pipe connection with optional drain pump kits	VP25 (OD 32, ID 25)
⑤	Control unit	
⑥	Conduit for power supply & communication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

3 Dimensional drawing

Slim Duct

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

Unit:mm

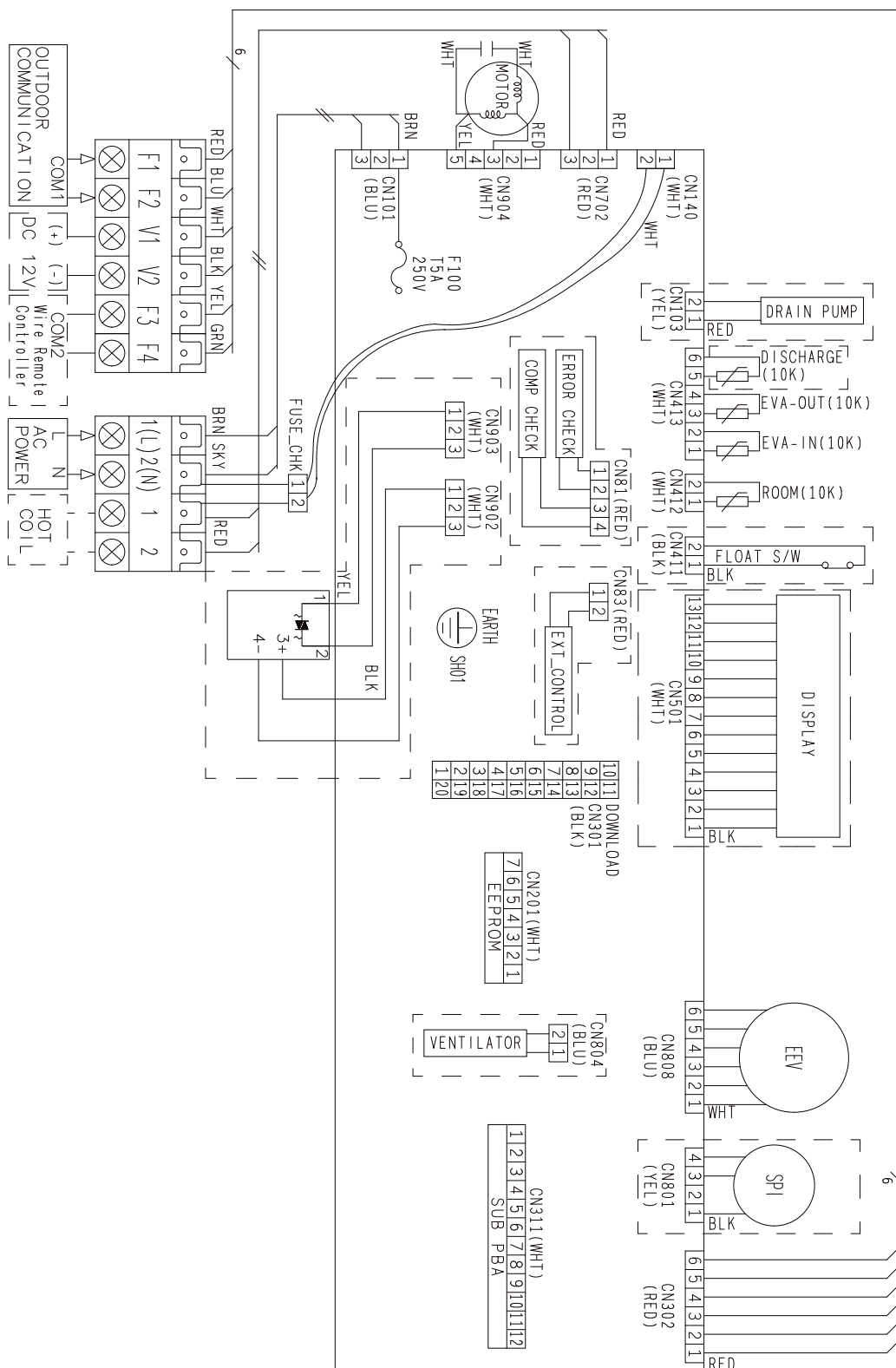


No.	Name	Description			
		9.0kW	11.2kW	12.8kW	14.0kW
①	Liquid pipe connection	Ø9.52 Flare			
②	Gas pipe connection	Ø15.88 Flare			
③	Drain pipe connection without optional drain pump kits	VP25 (OD 32, ID 25)			
④	Drain pipe connection with optional drain pump kits	VP25 (OD 32, ID 25)			
⑤	Control unit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

4 Electrical wiring diagram

Slim Duct

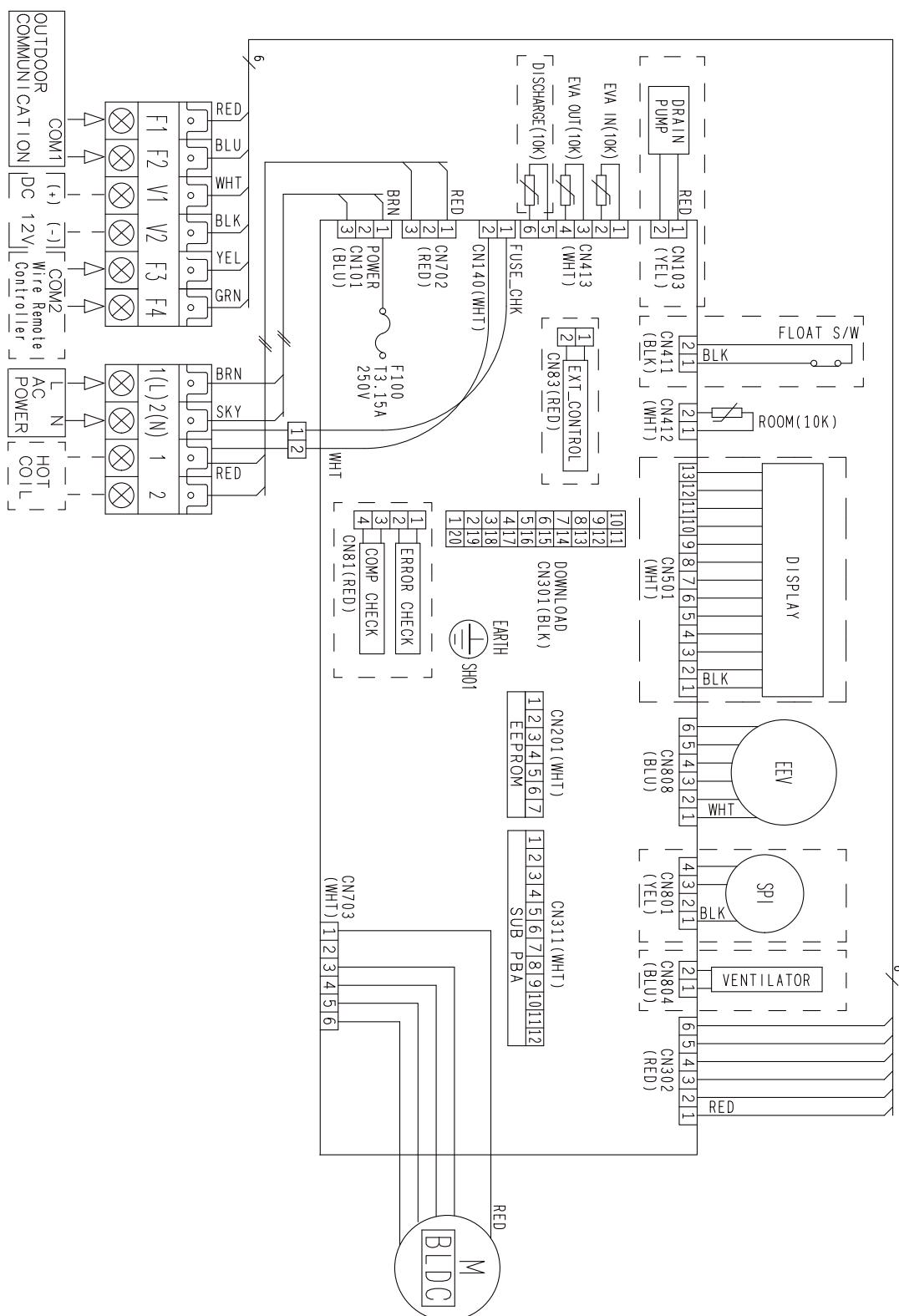
1) AM017/AM022/028/036/045/056/071FNLDEH***



4 Electrical wiring diagram

Slim Duct

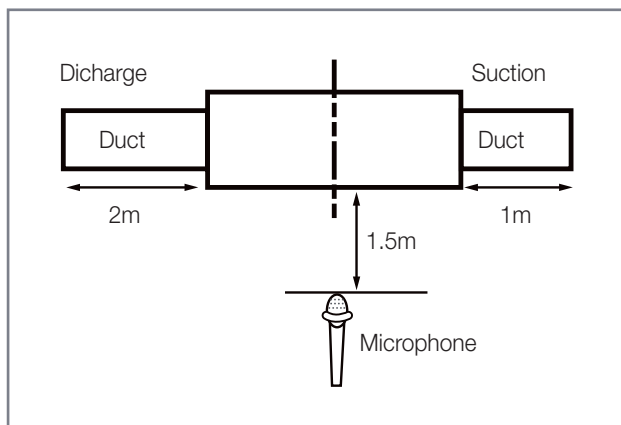
2) AM090/112/128/140FNLDEH***



5 Sound pressure level

Slim Duct

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

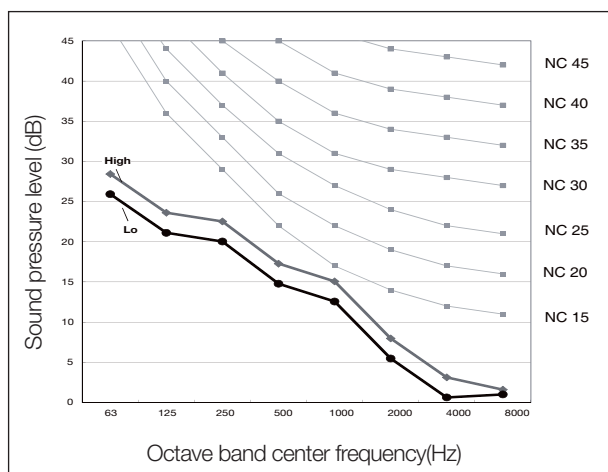
- ◆ These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- ◆ Operation sound level may differ depending on operation and ambient conditions.

5 Sound pressure level

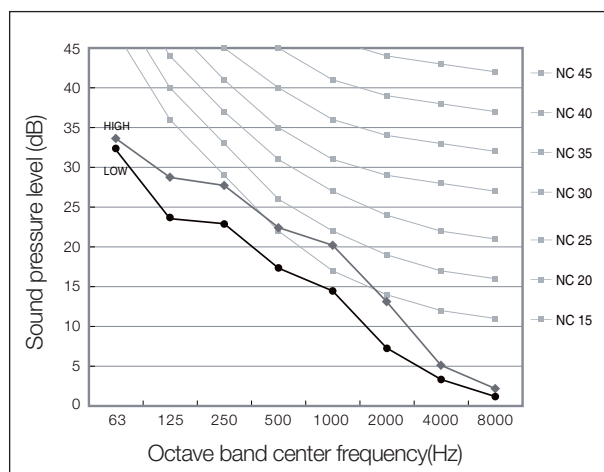
Slim Duct

2) NC curves

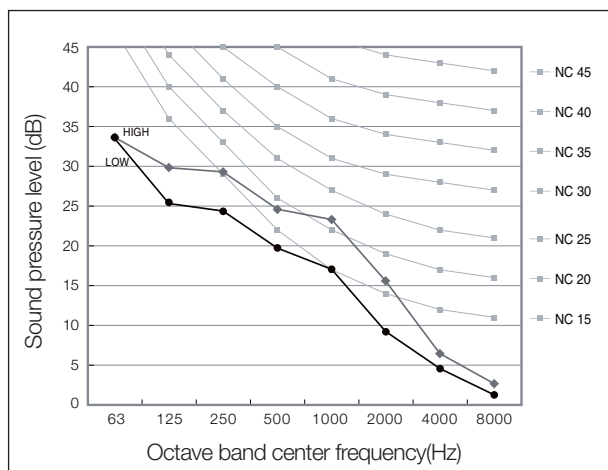
(1) AM017FNLDEH***



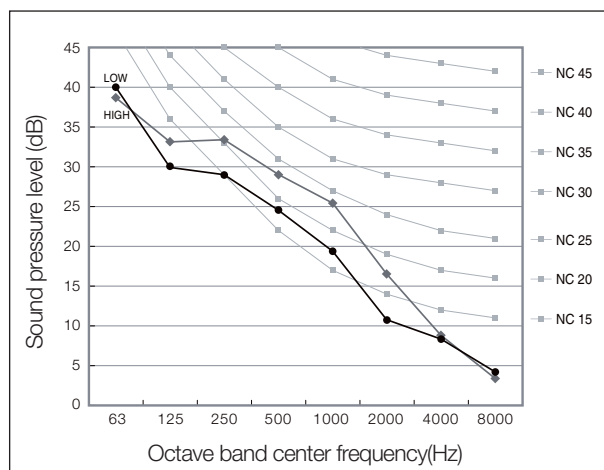
(2) AM022FNLDEH***



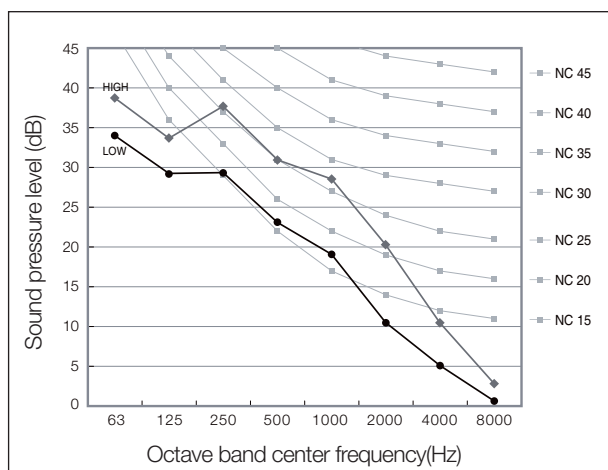
(3) AM028FNLDEH***



(4) AM036FNLDEH***



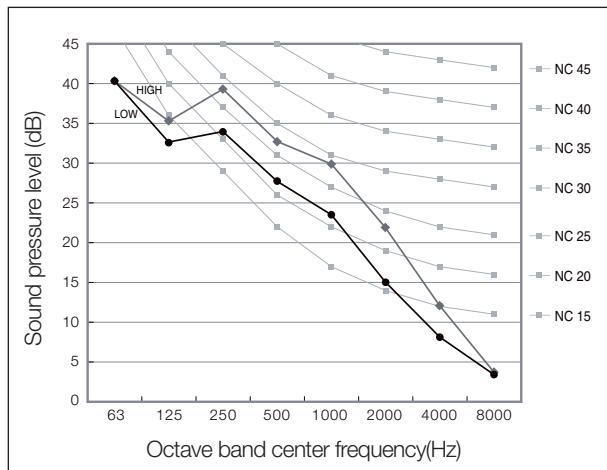
(5) AM045FNLDEH***



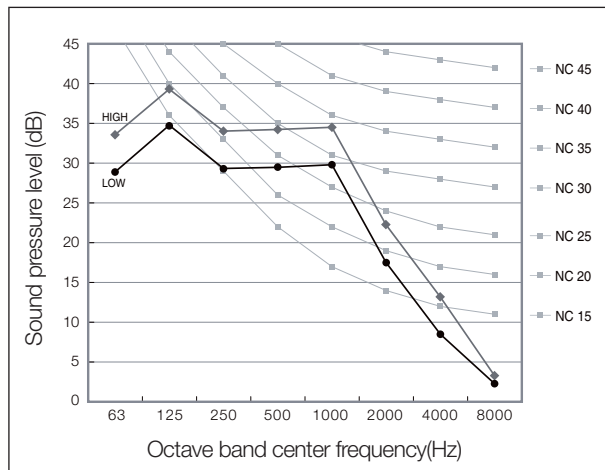
5 Sound pressure level

Slim Duct

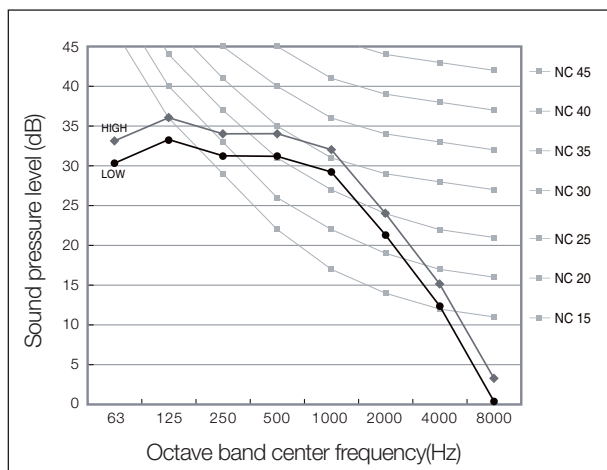
(5) AM056FNLDEH***



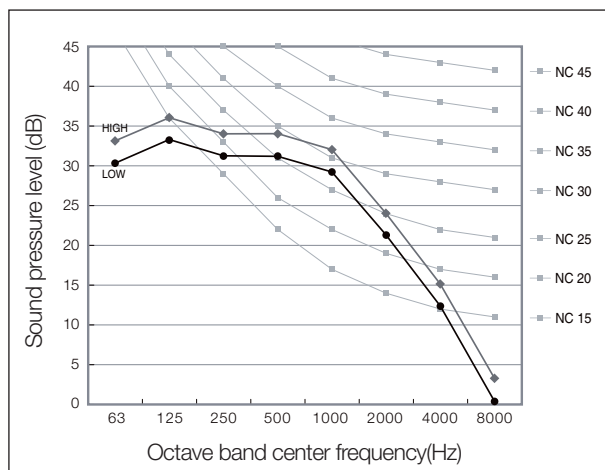
(6) AM071FNLDEH***



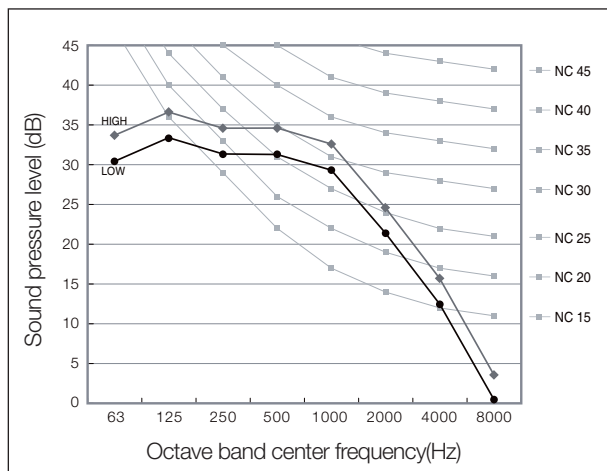
(7) AM090FNLDEH***



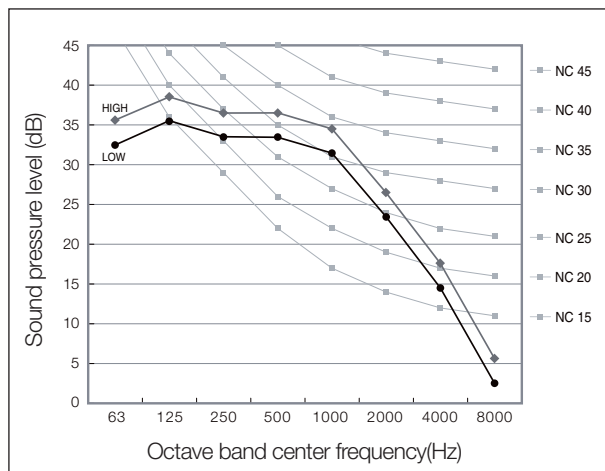
(8) AM112FNLDEH***



(9) AM128FNLDEH***



(10) AM140FNLDEH***

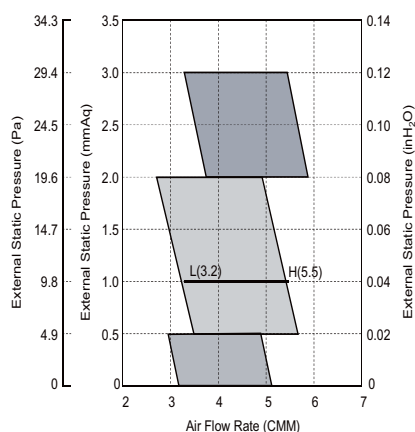


6 Recommended operation range

Slim Duct

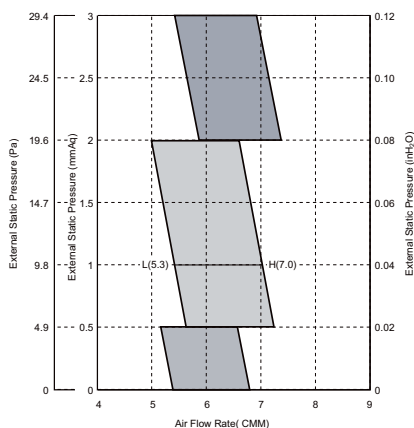
◆ Adjust option code according to the actual installation condition (external static pressure).

(0) AM017FNLDEH/EU



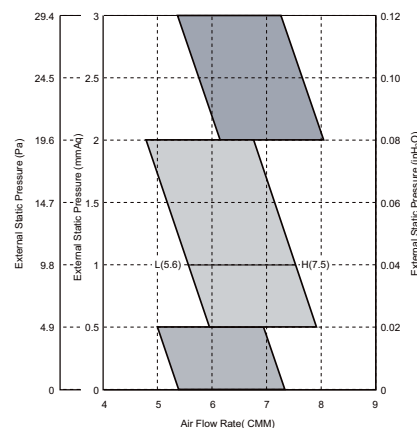
External Static pressure (mmAq)	Option code
0	010054-12549E-201111-331110
1	010054-1255B1-201111-331110
3	010054-1255F5-201111-331110

(1) AM022FNLDEH***



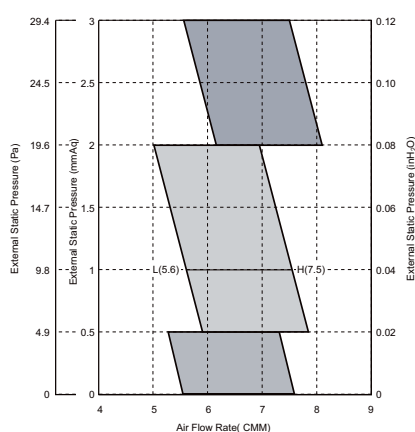
External Static pressure (mmAq)	Option code
0	010054-125A80-201616-331110
1	010054-125AC3-201616-331110
3	010054-125E08-201616-331110

(2) AM028FNLDEH***



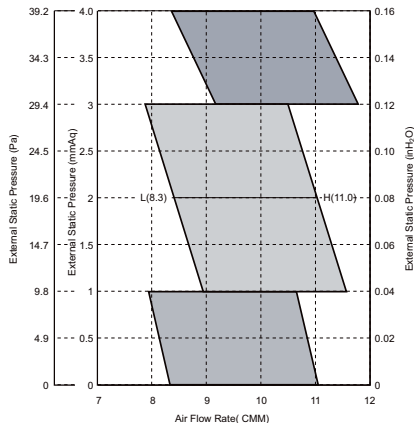
External Static pressure (mmAq)	Option code
0	010054-125AE2-201C1C-331110
1	010054-125E15-201C1C-331110
3	010054-125E7A-201C1C-331110

(3) AM036FNLDEH***



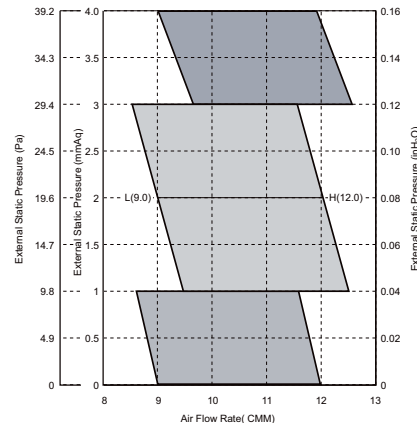
External Static pressure (mmAq)	Option code
0	010054-125E35-202424-331110
1	010054-125E68-202424-331110
3	010054-125ECD-202424-331110

(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

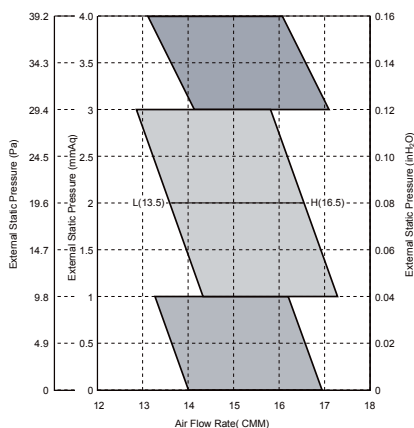
◆ ESP = External Static Pressure

◆ 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.

6 Recommended operation range

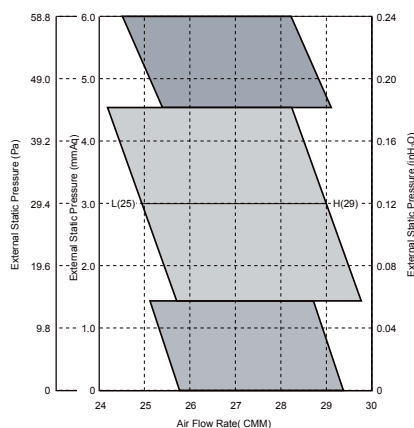
Slim Duct

(6) AM071FNLDEH***



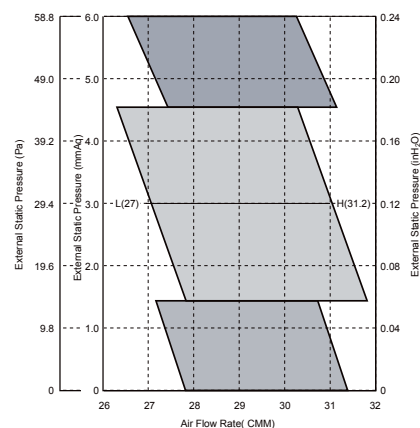
External Static pressure (mmAq)	Option code
0	010054-1259BB-204747-331110
2	010054-125D9E-204747-331110
4	010054-125EF4-204747-331110

(7) AM090FNLDEH***



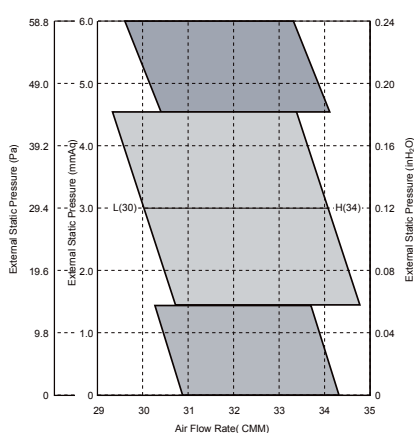
External Static pressure (mmAq)	Option code
0	010054-1B596C-205A5A-331110
3	010054-1B5AD4-205A5A-331110
6	010054-1B5E2A-205A5A-331110

(8) AM112FNLDEH***



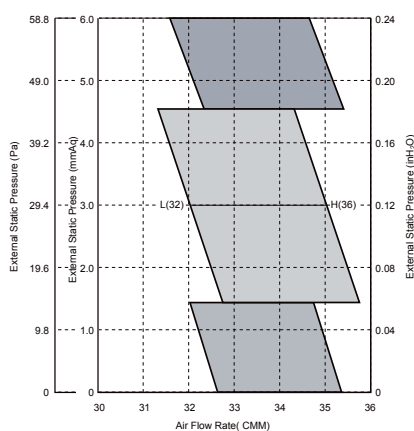
External Static pressure (mmAq)	Option code
0	010054-1B596C-207070-331110
3	010054-1B5AD4-207070-331110
6	010054-1B5E2A-207070-331110

(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.

MSP Duct

1 Specifications

2 Capacity table

3 Dimensional drawing

4 Electrical wiring diagram

5 Sound pressure level

6 Recommended operation range

1 Specifications

MSP Duct

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.

1 Specifications

MSP Duct

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.

2 Capacity table

MSP Duct

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	
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
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
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
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
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

2 Capacity table

MSP Duct

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

2 Capacity table

MSP Duct

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
022	DB	WB	kW	kW	kW	kW	kW
	-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 Capacity table

MSP Duct

2) Heating

TC : Total Capacity(kW)

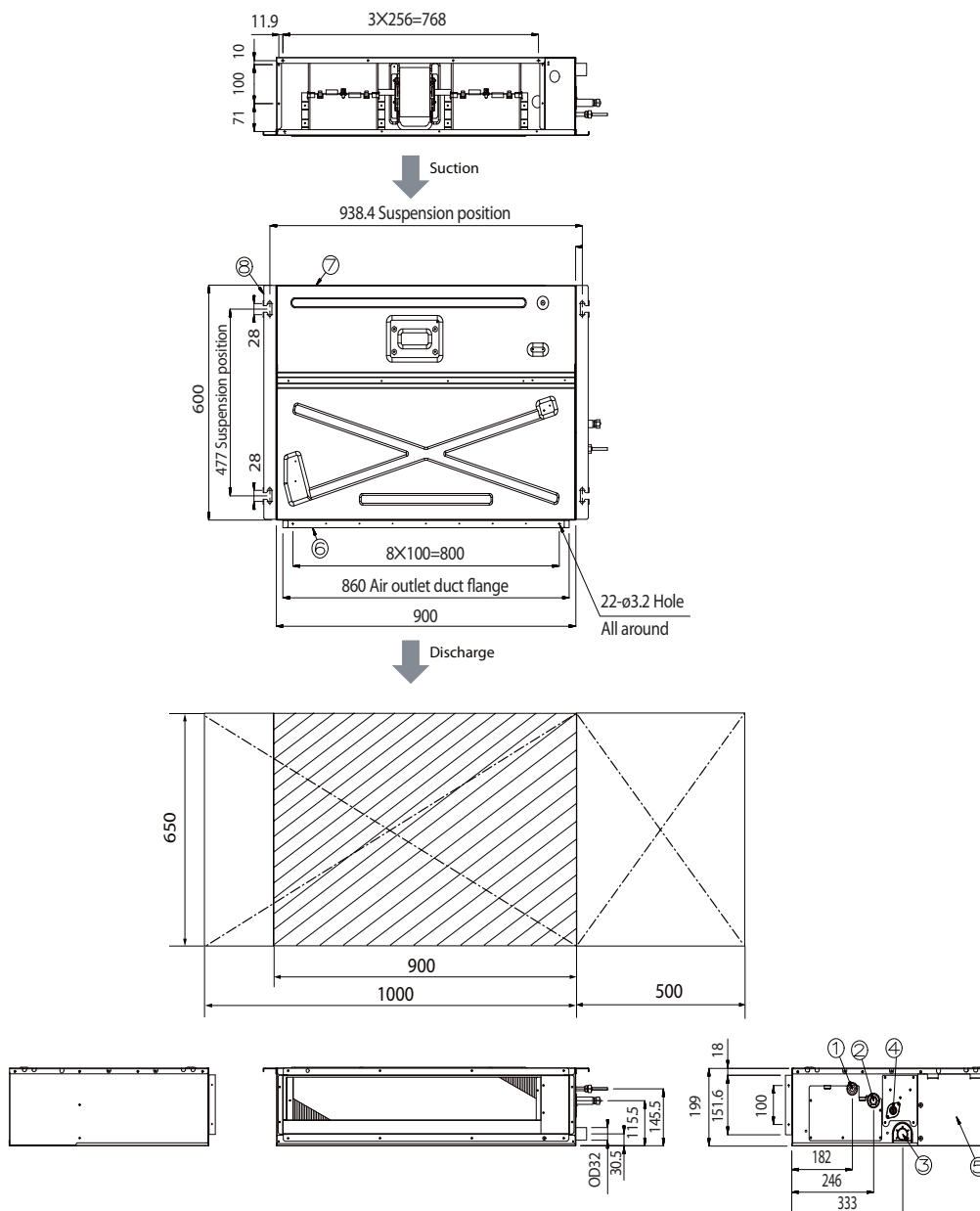
Model	Outdoor temperature (°C)		Indoor temperature (°C, DB)				
			16.0	18.0	20.0	22.0	24.0
			TC	TC	TC	TC	TC
	DB	WB	kW	kW	kW	kW	kW
071	-20	-21	4.9	4.9	4.8	4.7	4.7
	-17	-18	5.1	5.0	4.9	4.8	4.8
	-15	-16	5.3	5.2	5.1	4.9	4.8
	-12	-13	5.6	5.5	5.4	5.3	5.2
	-10	-11	5.9	5.8	5.7	5.6	5.6
	-7	-8	6.2	6.1	6.0	5.9	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

3 Dimensional drawing

MSP Duct

1) AM022/028/036FNMDEH***

Unit:mm



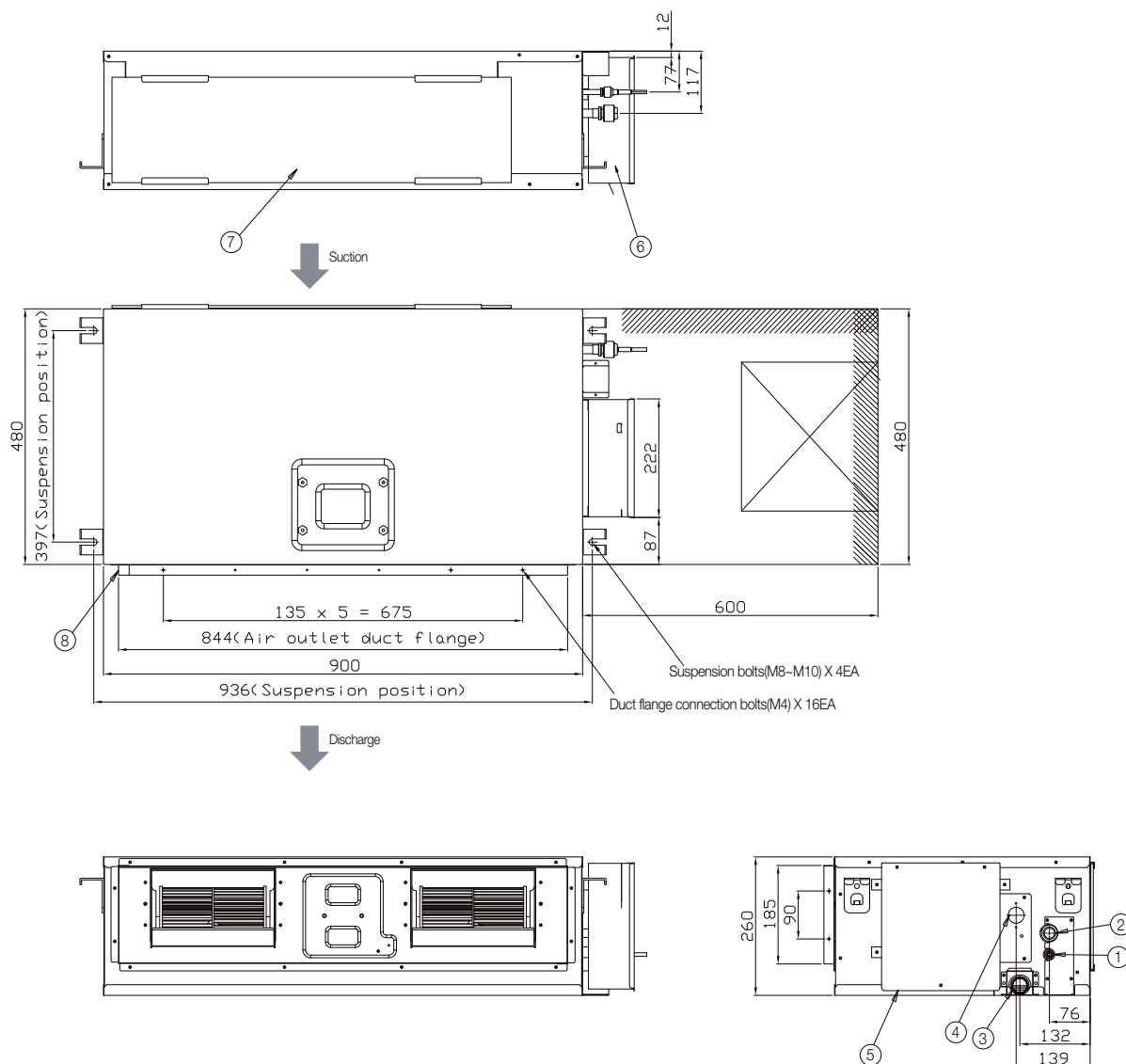
No.	Name	Description		
		2.2kW	2.8kW	3.6kW
①	Liquid pipe connection	Ø6.35 Flare		
②	Gas pipe connection	Ø12.70 Flare		
③	Drain pipe connection without optional drain pump kits	VP25 (OD 32, ID 25)		
④	Drain pipe connection with optional drain pump kits	VP25 (OD 32, ID 25)		
⑤	Control unit	-		
⑥	Conduit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

3 Dimensional drawing

MSP Duct

2) AM045/056/071FNMDEH***

Unit:mm



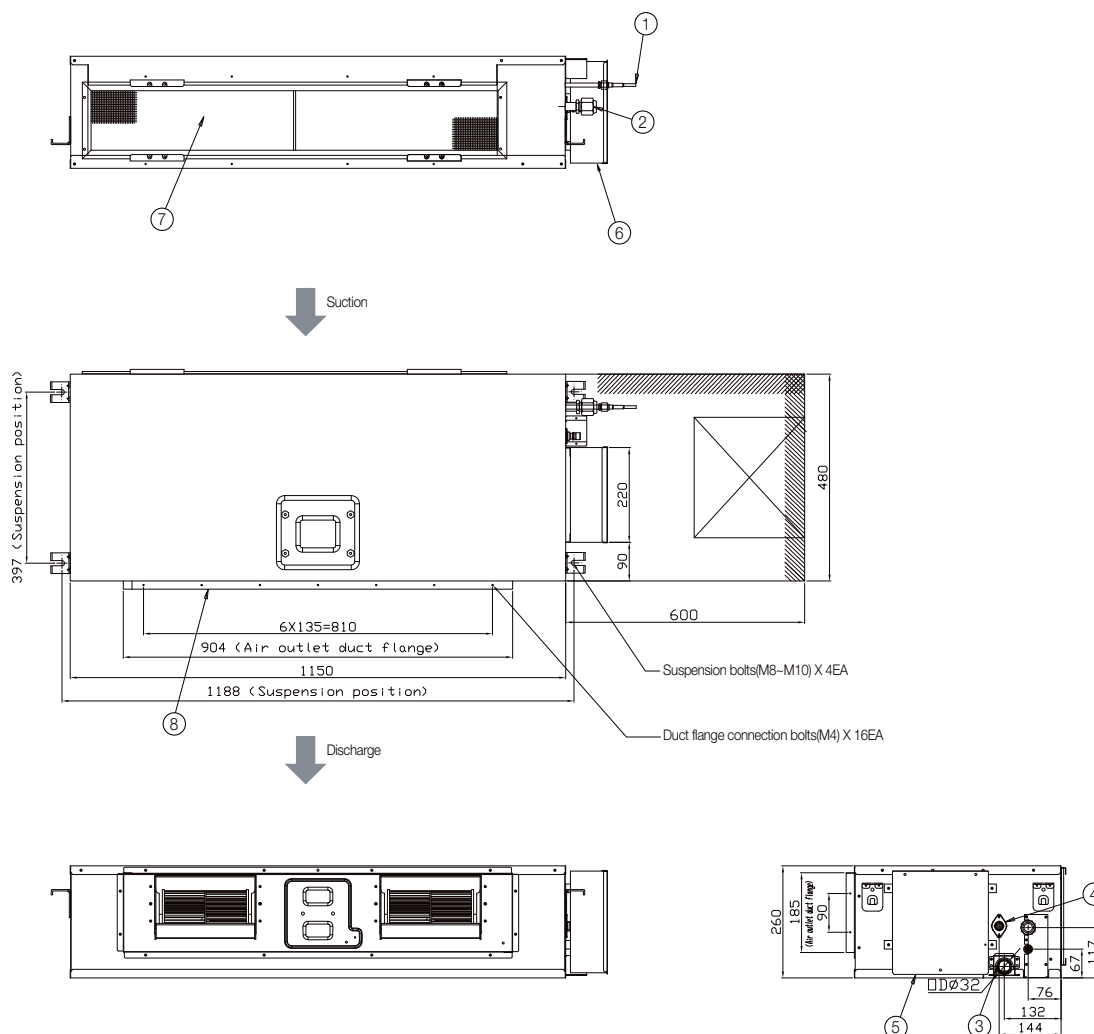
No.	Name	Description		
		4.5kW	5.6kW	7.1kW
①	Liquid pipe connection	Ø6.35 Flare		
②	Gas pipe connection	Ø12.70 Flare		
③	Drain pipe connection without optional drain pump kits	VP25 (OD 32, ID 25)		
④	Drain pipe connection with optional drain pump kits	VP25 (OD 32, ID 25)		
⑤	Control unit	-		
⑥	Conduit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

3 Dimensional drawing

MSP Duct

3) AM090FNMDEH***

Unit:mm



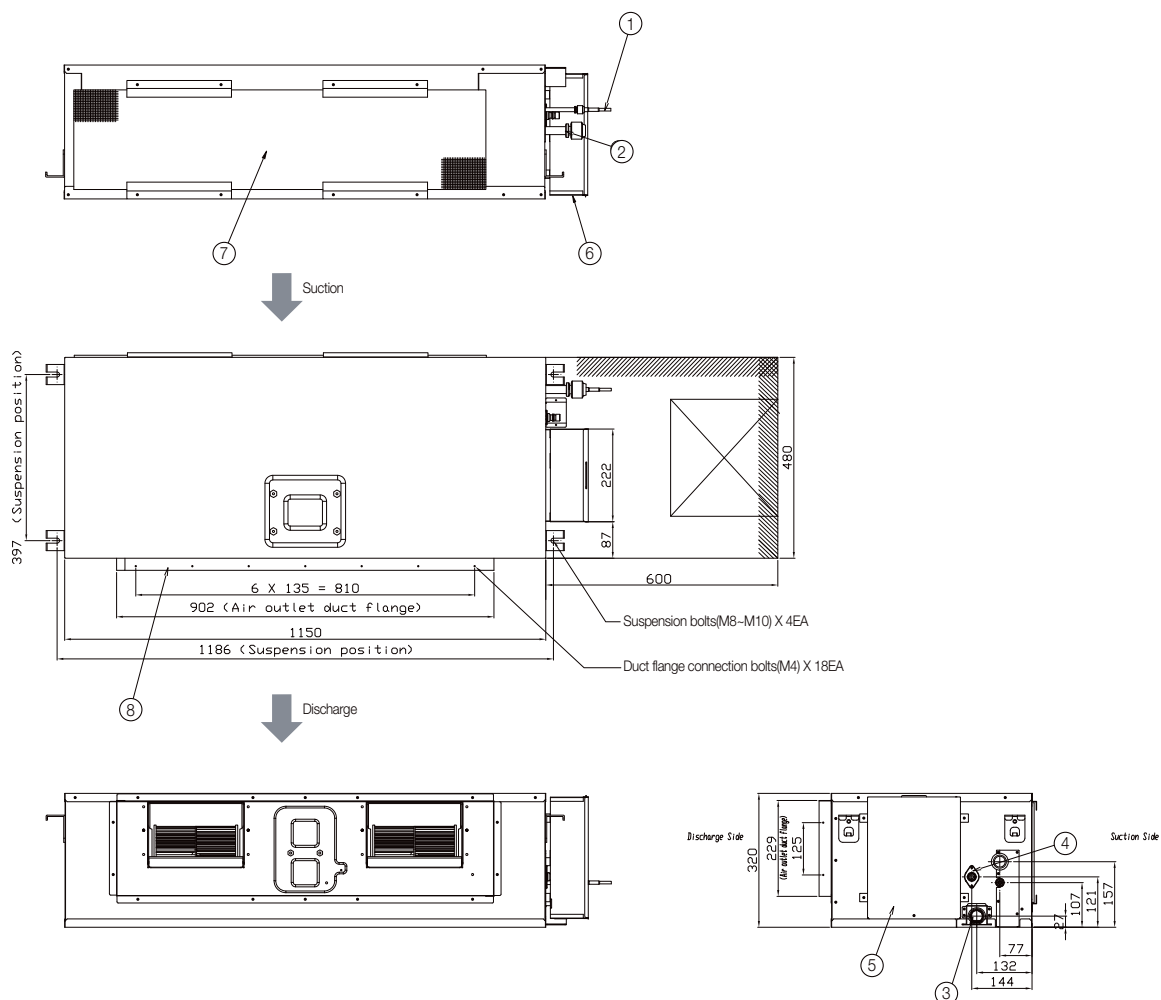
No.	Name	Description
		9.0kW
①	Liquid pipe connection	Ø9.52 Flare
②	Gas pipe connection	Ø15.88 Flare
③	Drain pipe connection without optional drain pump kits	VP25 (OD 32, ID 25)
④	Drain pipe connection with optional drain pump kits	VP25 (OD 32, ID 25)
⑤	Control unit	-
⑥	Conduit for power supply & communication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

3 Dimensional drawing

MSP Duct

4) AM112FNMDEH***

Unit:mm



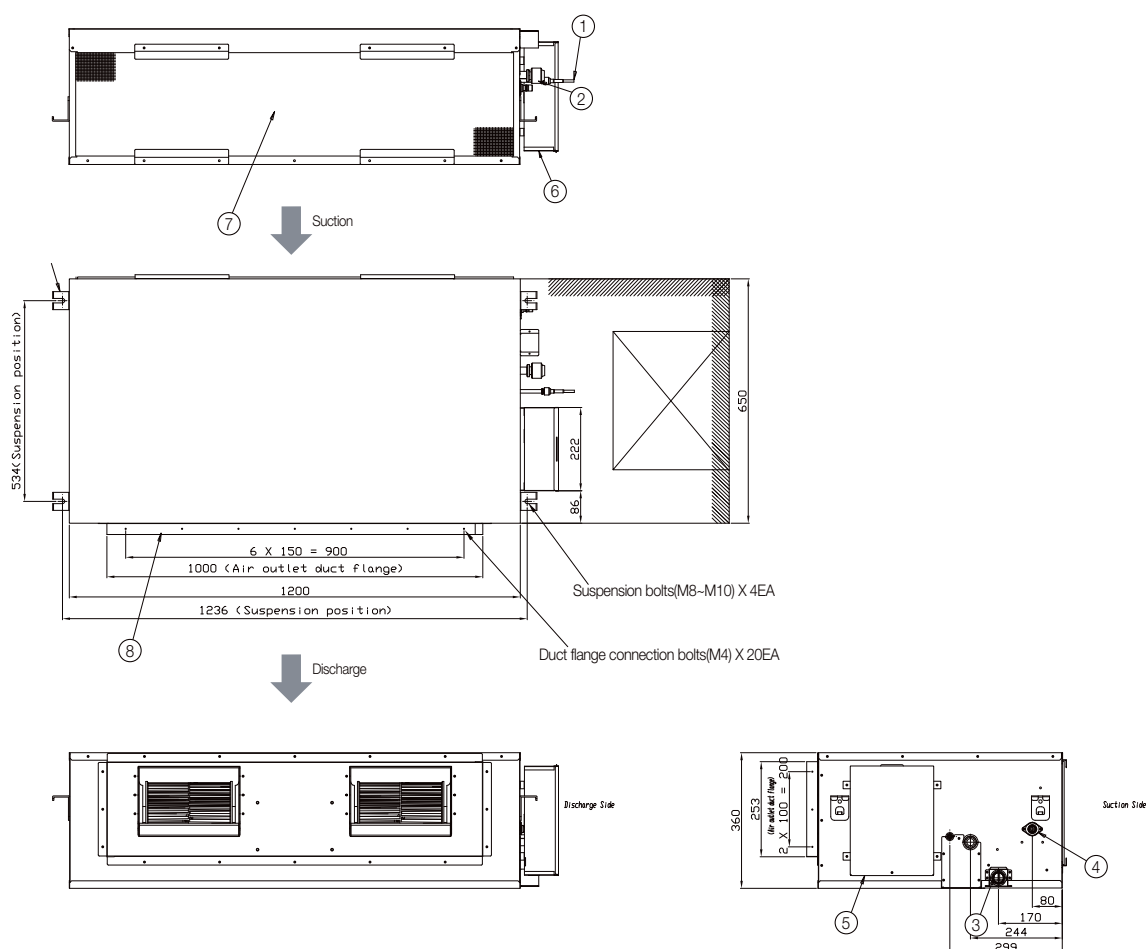
No.	Name	Description
		11.2kW
①	Liquid pipe connection	Ø9.52 Flare
②	Gas pipe connection	Ø15.88 Flare
③	Drain pipe connection without optional drain pump kits	VP25 (OD 32, ID 25)
④	Drain pipe connection with optional drain pump kits	VP25 (OD 32, ID 25)
⑤	Control unit	-
⑥	Conduit for power supply & communication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

3 Dimensional drawing

MSP Duct

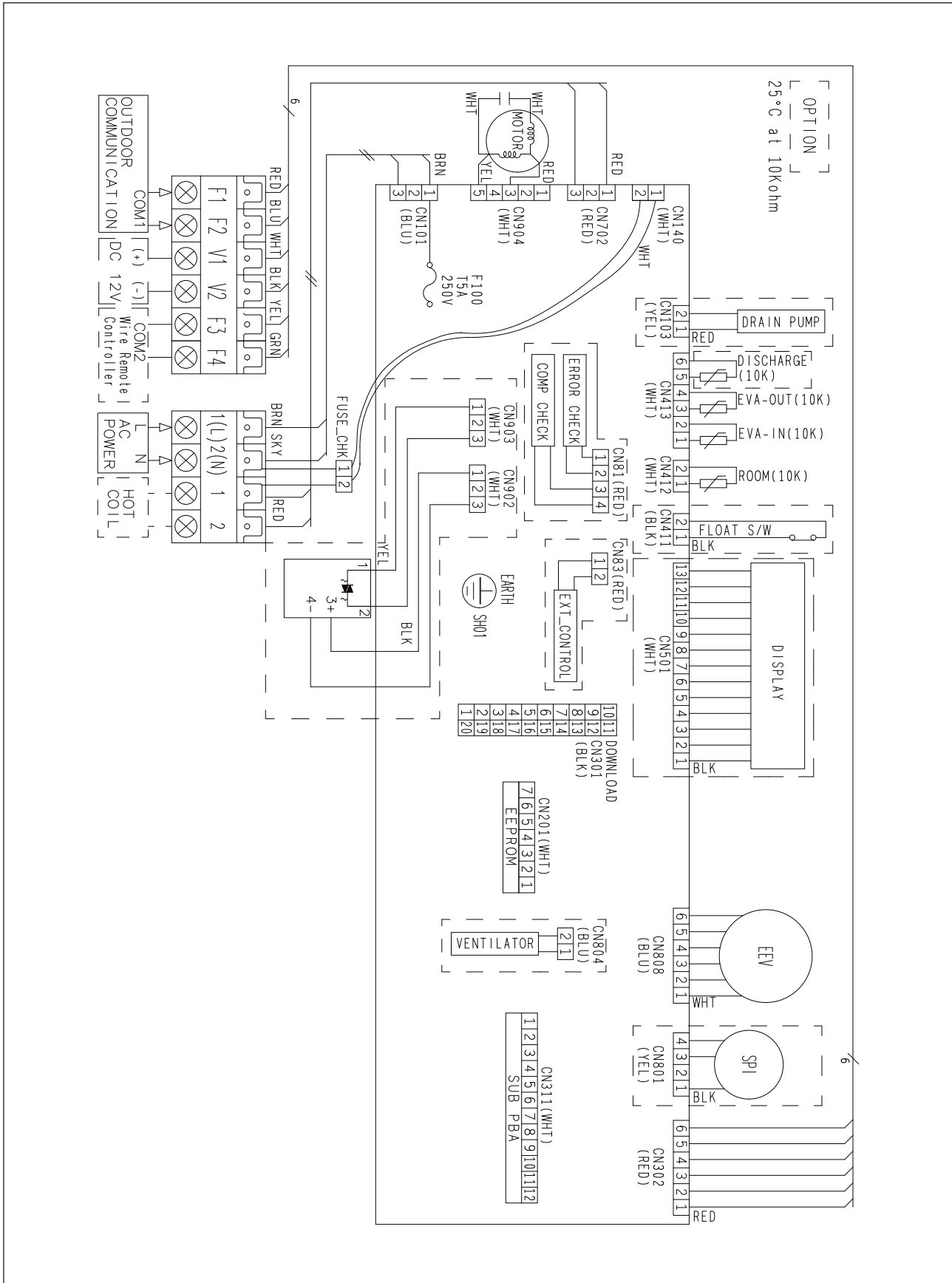
5) AM128/140FNMDEH***

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	-	

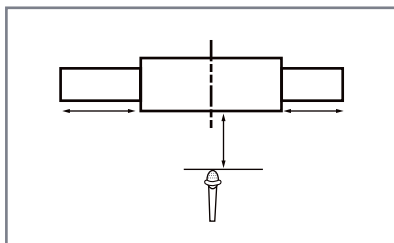
MSP Duct



5 Sound pressure level

MSP Duct

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)

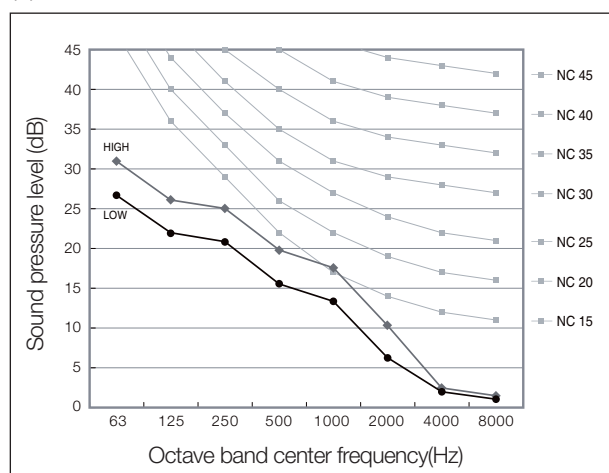
Model	High	Low
AM071FNMDEH***	39	31
AM090FNMDEH***	40	34
AM112FNMDEH***	41	38
AM128FNMDEH***	41	38
AM140FNMDEH***	42	36

✓ Note

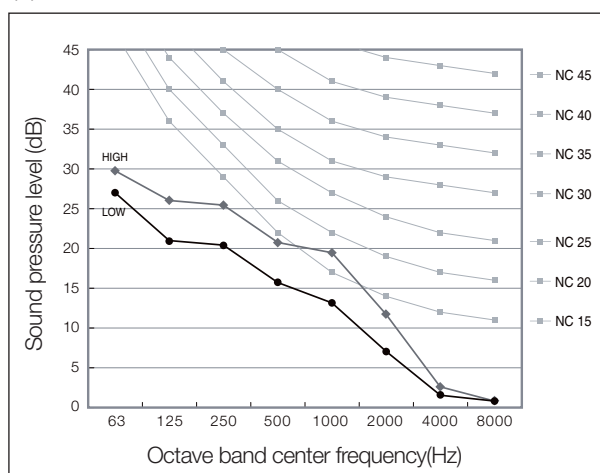
- ◆ These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- ◆ Operation sound level may differ depending on operation and ambient conditions.

2) NC curves

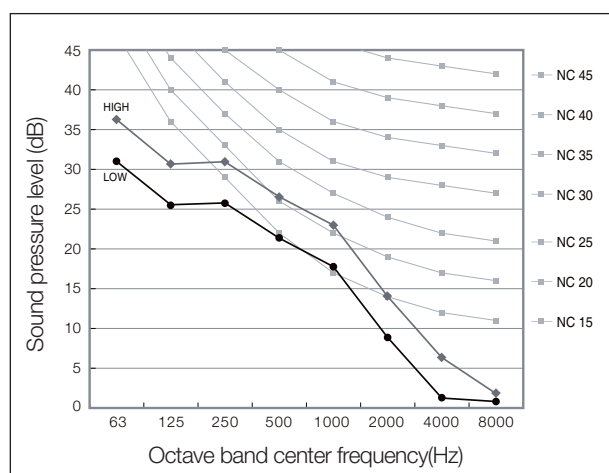
(1) AM022FNMDEH***



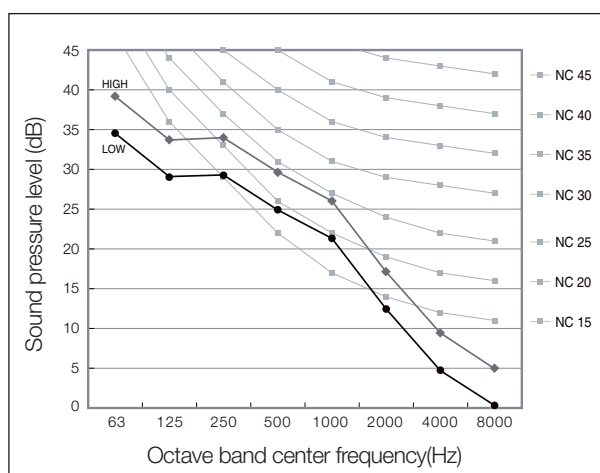
(2) AM028FNMDEH***



(3) AM036FNMDEH***



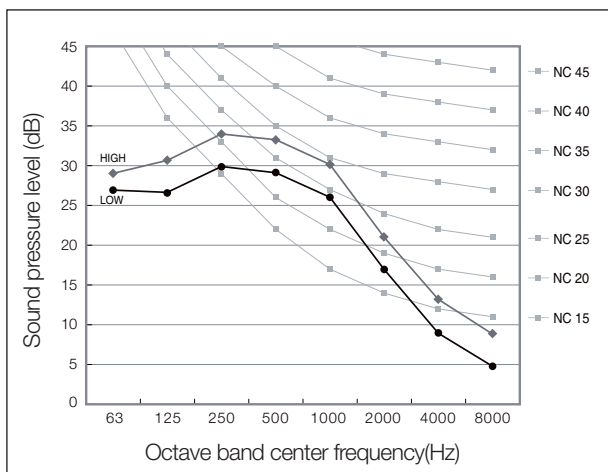
(4) AM045FNMDEH***



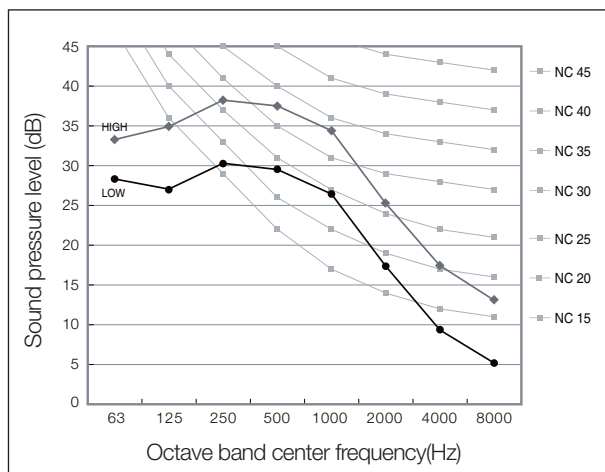
5 Sound pressure level

MSP Duct

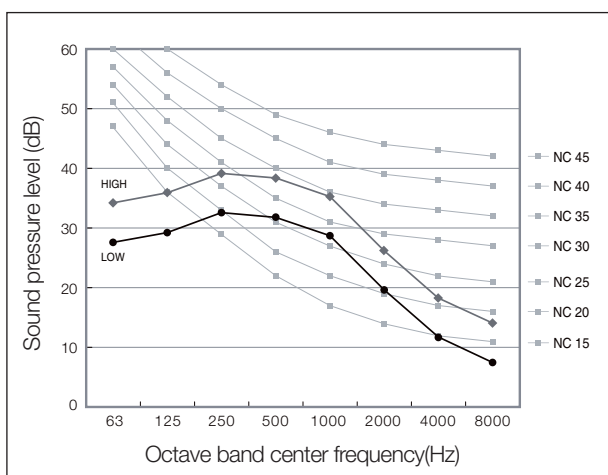
(5) AM056FNMDEH***



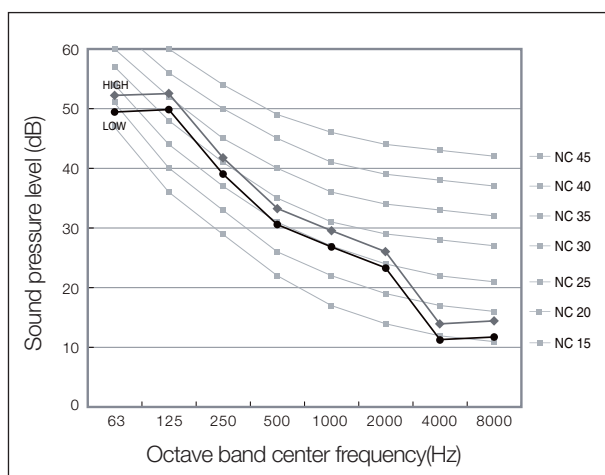
(6) AM071FNMDEH***



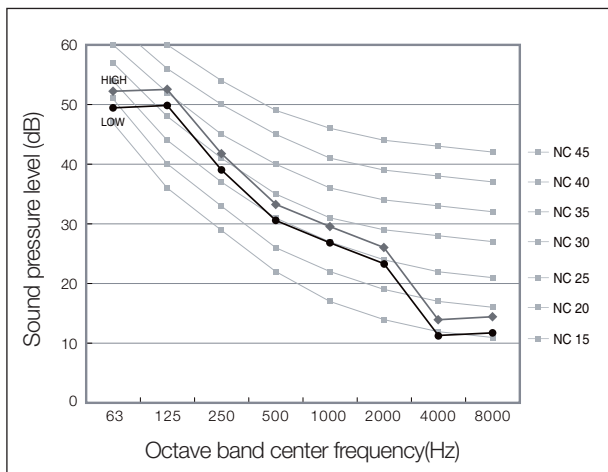
(7) AM090FNMDEH***



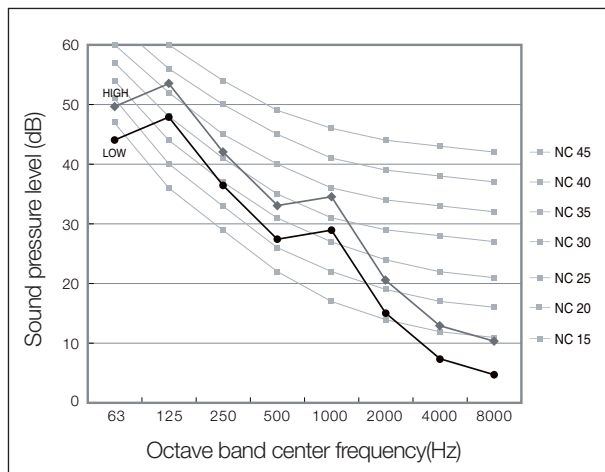
(8) AM112FNMDEH***



(9) AM128FNMDEH***



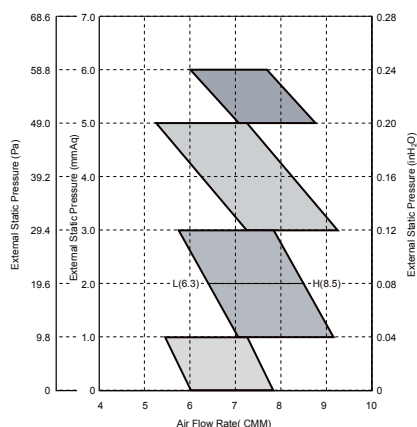
(10) AM140FNMDEH***



6 Recommended operation range

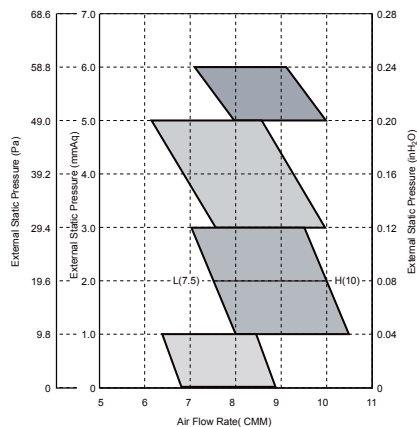
MSP Duct

(1) AM022FNMDEH***



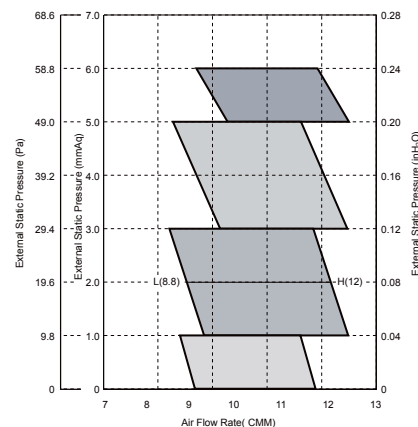
External Static pressure (mmAq)	Option code
0	010054-1350B6-201616-331110
2	010054-1350EA-201616-331110
4	010054-13541E-201616-331110
6	010054-1355E4-201616-331110

(2) AM028FNMDEH***



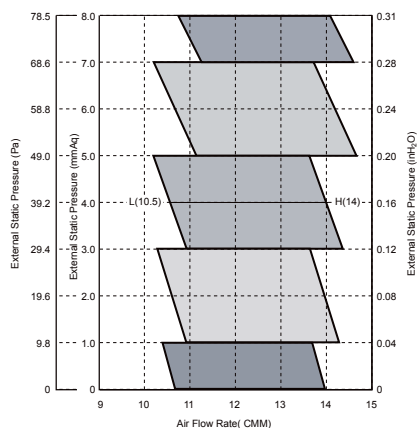
External Static pressure (mmAq)	Option code
0	010054-1350E8-201C1C-331110
2	010054-13542C-201C1C-331110
4	010054-135562-201C1C-331110
6	010054-1359A9-201C1C-331110

(3) AM036FNMDEH***



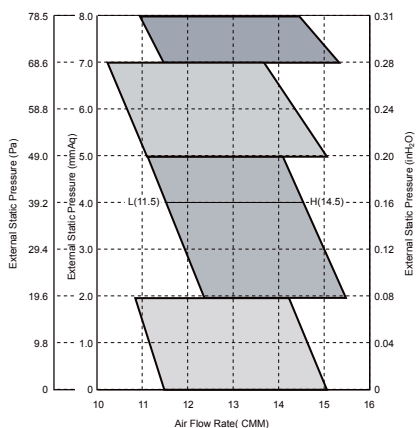
External Static pressure (mmAq)	Option code
0	010054-1350EA-202424-331110
2	010054-1350FB-202424-331110
4	010054-13542C-202424-331110
6	010054-1354CF-202424-331110

(4) AM045FNMDEH***



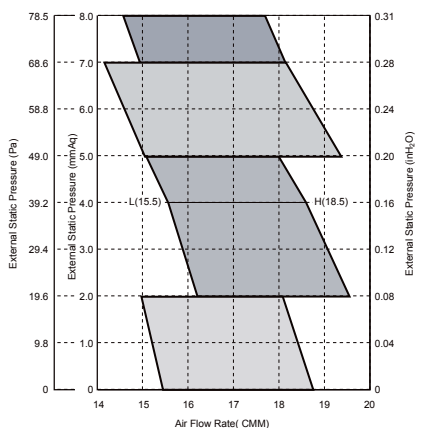
External Static pressure (mmAq)	Option code
0	010054-125550-202D2D-331110
2	010054-125571-202D2D-331110
4	010054-125583-202D2D-331110
6	010054-1255A4-202D2D-331110
8	010054-125906-202D2D-331110

(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



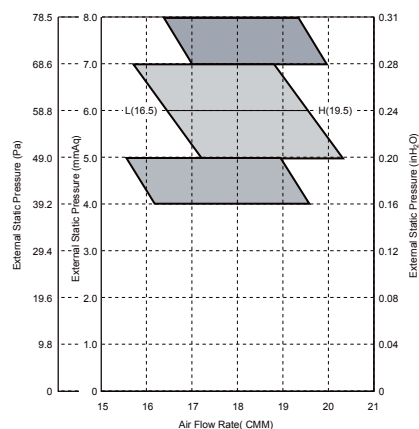
Note

- ◆ 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.

6 Recommended operation range

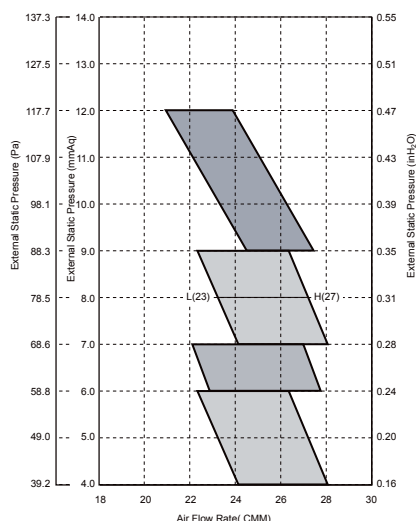
MSP Duct

(7) AM090FNMDEH***



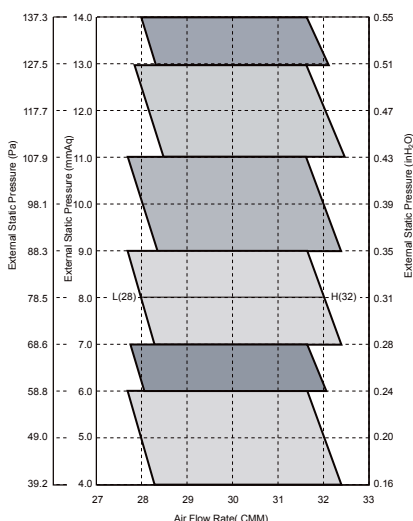
External Static pressure (mmAq)	Option code
4	010054-125945-205A5A-331110
6	010054-125D29-205A5A-331110
8	010054-125DFD-205A5A-331110

(8) AM112FNMDEH***



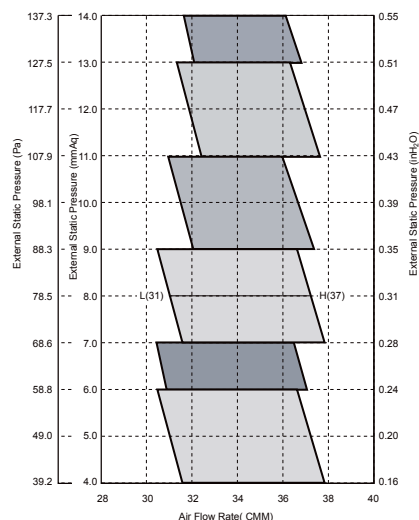
External Static pressure (mmAq)	Option code
4	010054-122E04-207070-331110
6	010054-122E26-207070-331110
8	010054-122EBB-207070-331110
10	010054-122FF0-207070-331110
12	010054-122FF0-207070-331110

(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.

HSP Duct

1 Specifications

2 Capacity table

3 Dimensional drawing

4 Electrical wiring diagram

5 Sound pressure level

6 Recommended operation range

1 Specifications

HSP Duct

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.

2 Capacity table

HSP Duct

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

2 Capacity table

HSP Duct

2) Heating

TC : Total Capacity(kW)

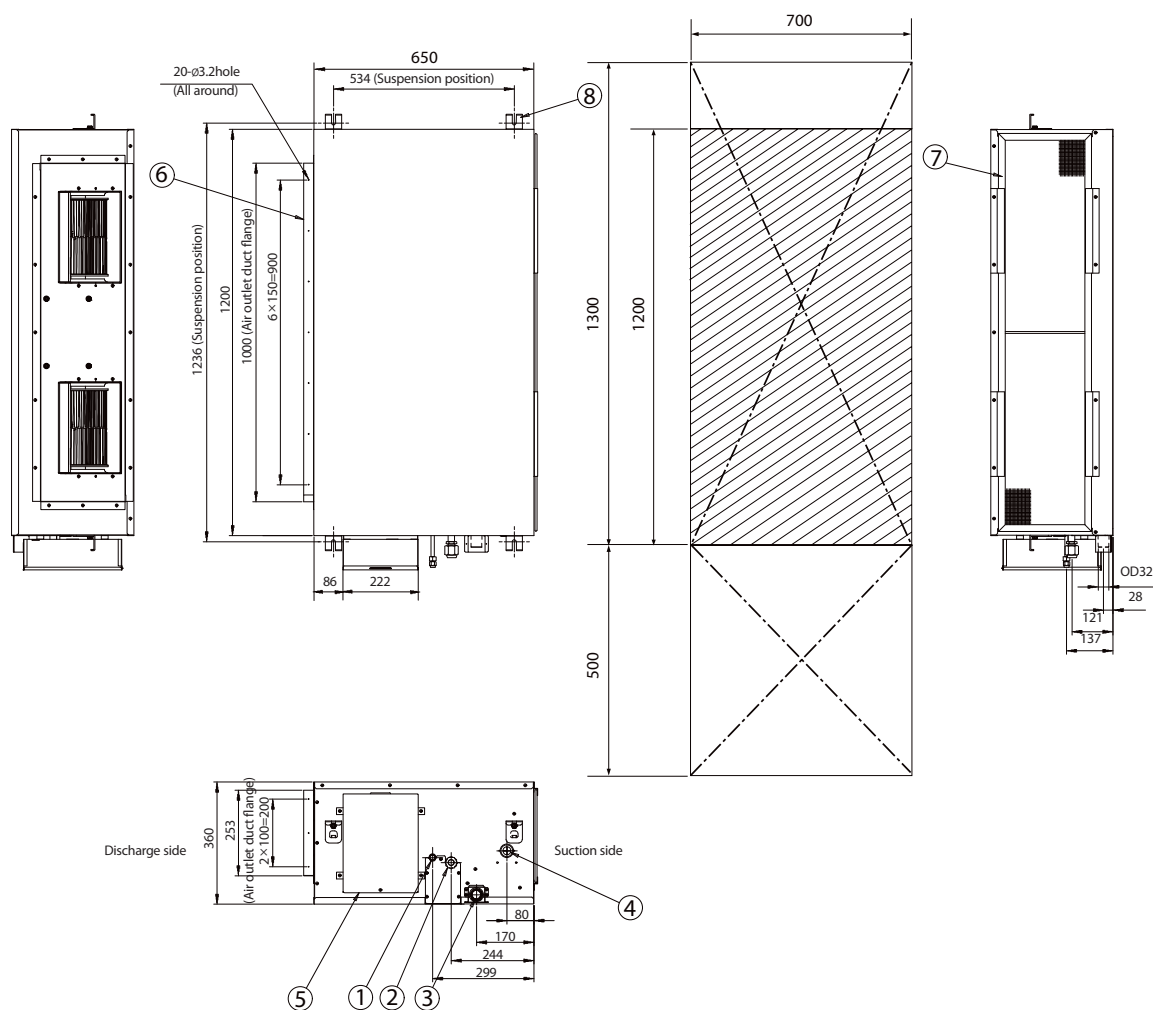
Model	Outdoor temperature (°C, DB)		Indoor temperature (°C, DB)				
			16.0	18.0	20.0	22.0	24.0
			TC	TC	TC	TC	TC
	DB	WB	kW	kW	kW	kW	kW
112	-20	-21	7.2	6.9	6.6	6.5	6.5
	-17	-18	8.0	7.6	7.4	7.3	7.3
	-15	-16	8.4	8.1	7.9	7.7	7.5
	-12	-13	8.8	8.6	8.4	8.2	8.1
	-10	-11	9.2	9.0	8.9	8.8	8.7
	-7	-8	9.7	9.6	9.4	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

3 Dimensional drawing

HSP Duct

1) AM112/128/140FNHDEH***

Unit:mm



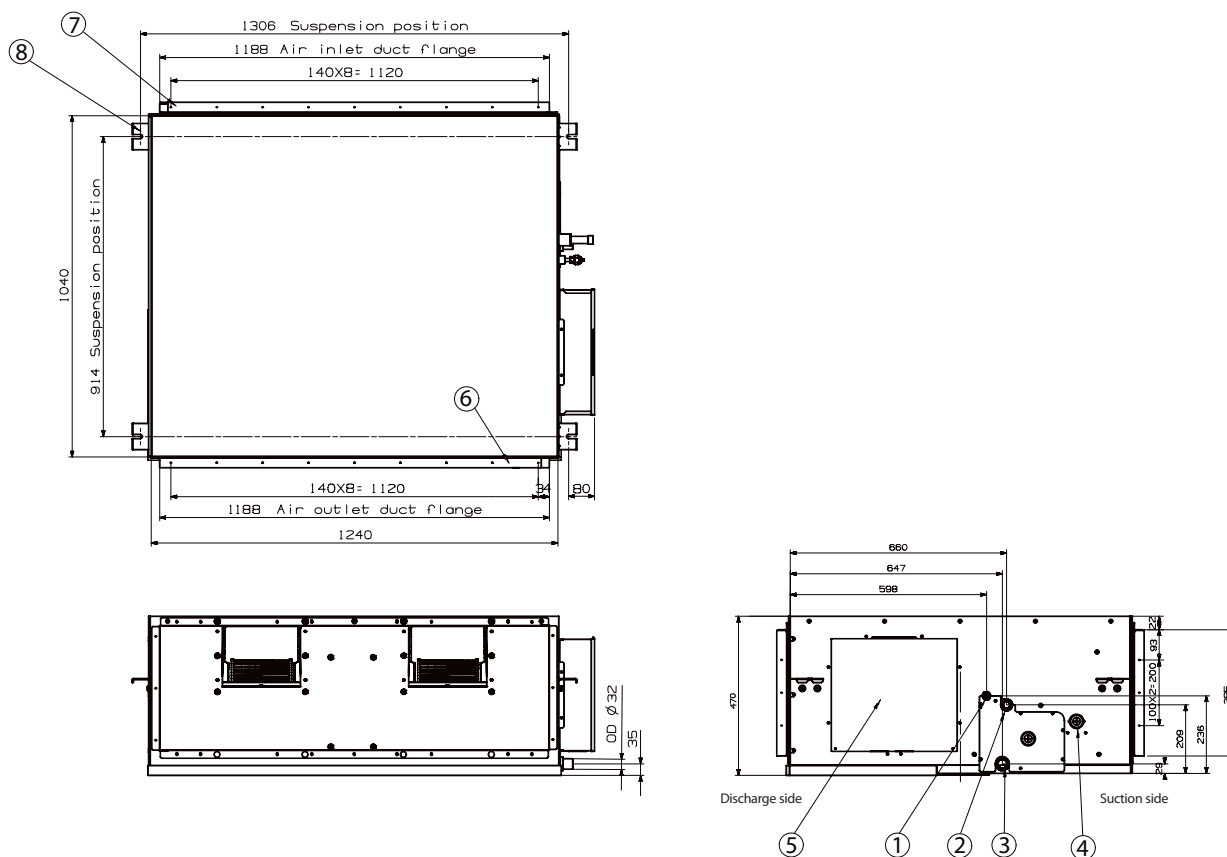
No.	Name	Description
①	Liquid pipe connection	Ø9.52 (3/8")
②	Gas pipe connection	Ø15.88 (5/8")
③	Drain pipe connection without optional drain pump kits	VP25 (OD 32, ID 25)
④	Drain pipe connection with optional drain pump kits	VP25 (OD 32, ID 25)
⑤	Power supply/Communication connection	
⑥	Air discharge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

3 Dimensional drawing

HSP Duct

2) AM220/280FNHDEH***

Unit:mm

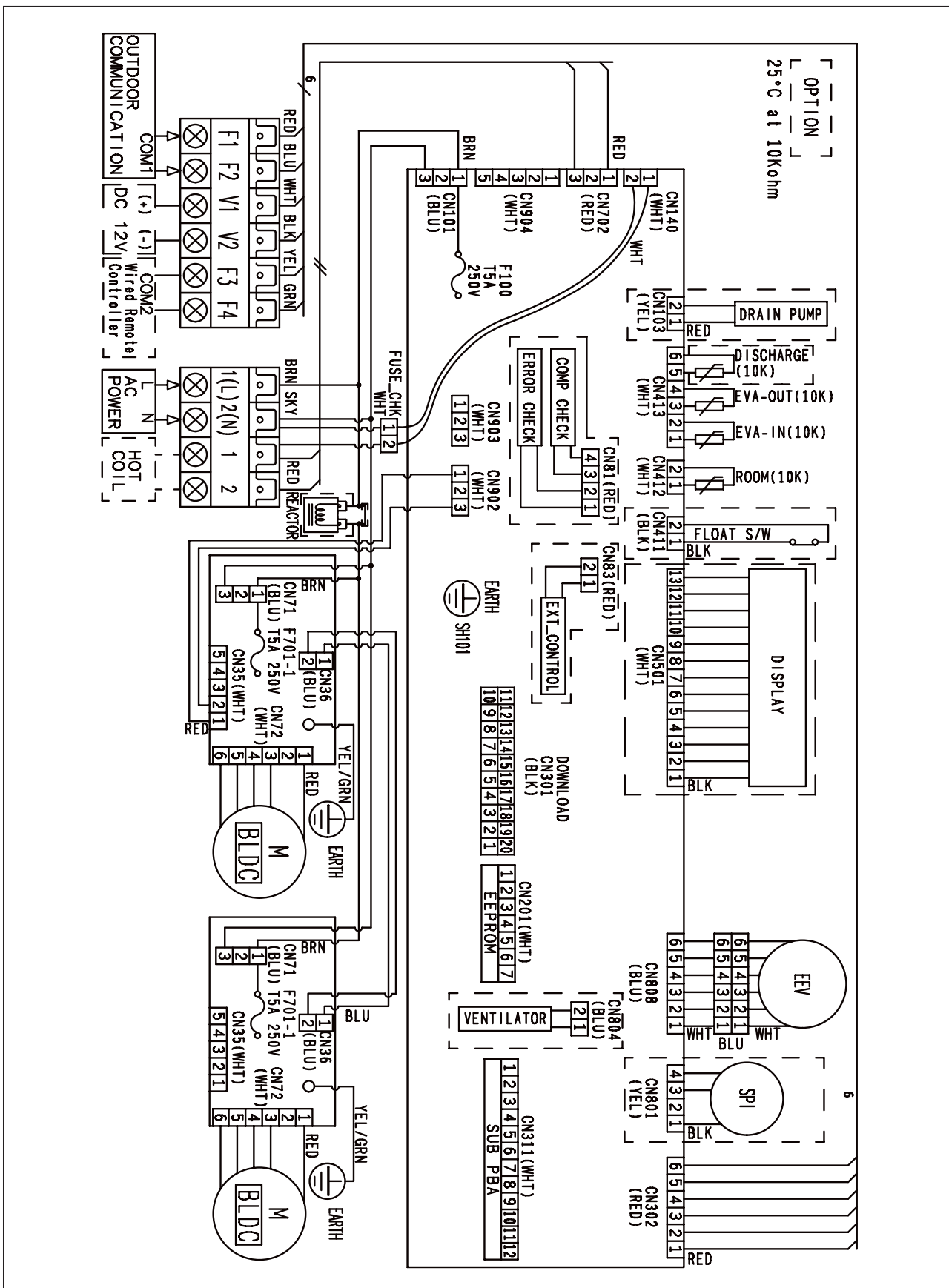


No.	Name	Description
①	Liquid pipe connection	Ø9.52 (3/8")
②	Gas pipe connection	AM220*** : Ø19.05 (3/4") AM280*** : Ø22.22 (7/8")
③	Drain pipe connection without optional drain pump kits	VP25 (OD 32, ID 25)
④	Drain pipe connection with optional drain pump kits	VP25 (OD 32, ID 25)
⑤	Power supply/Communication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

4) Electrical wiring diagram

HSP Duct

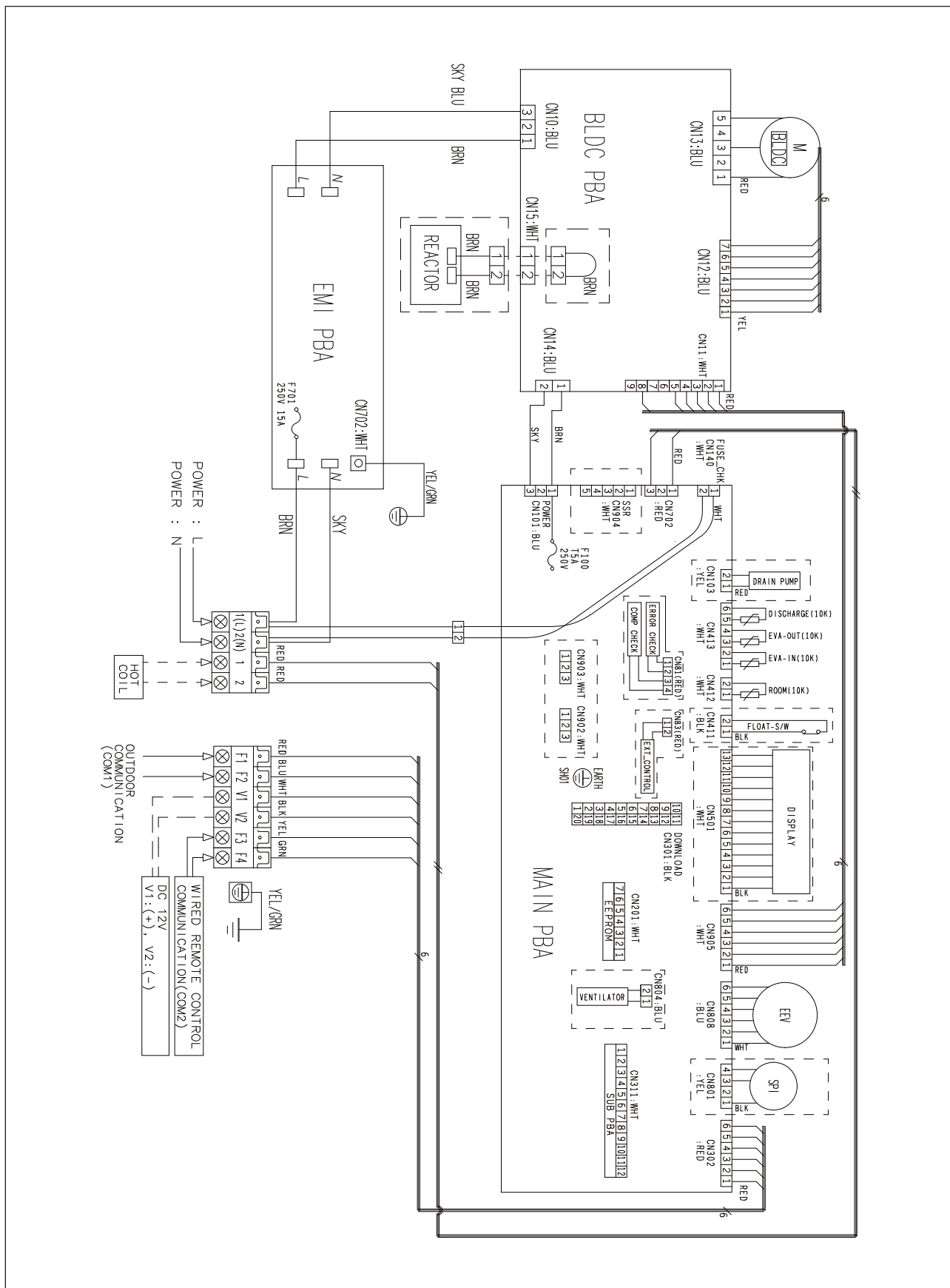
1) AM112/128/140FNHDEH***



4) Electrical wiring diagram

HSP Duct

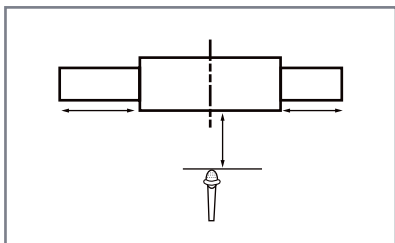
2) AM220/280FNHDEH***



5 Sound pressure level

HSP Duct

1) Operation sound level



Unit : dB(A)

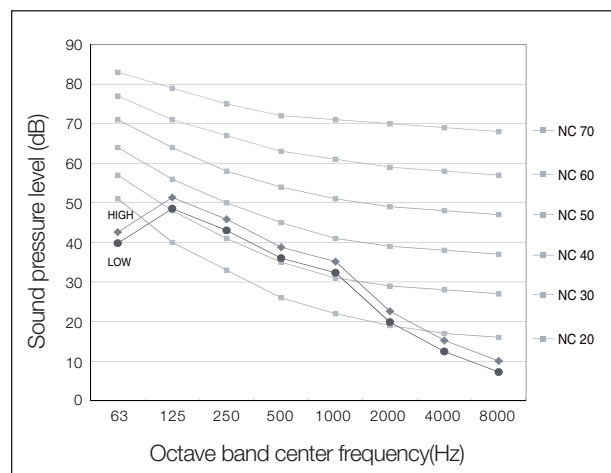
Model	High	Low
AM112FNHDEH***	43	39
AM128FNHDEH***	45	42
AM140FNHDEH***	46	44
AM220FNHDEH***	45	41
AM280FNHDEH***	48	43

✓ Note

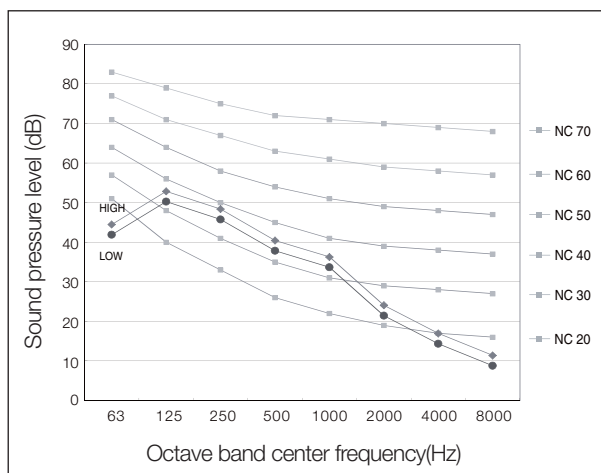
- ◆ These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- ◆ Operation sound level may differ depending on operation and ambient conditions.

2) NC curves

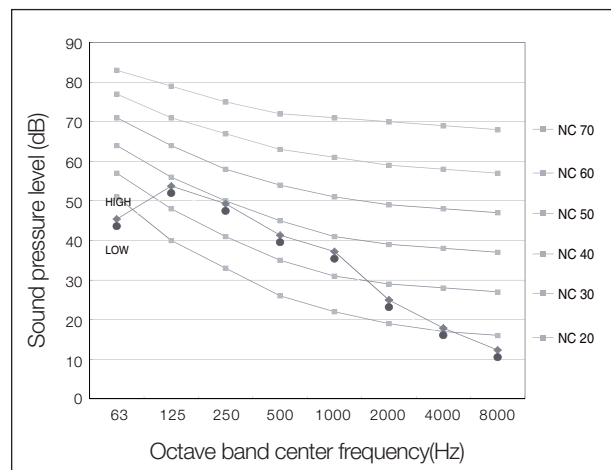
(1) AM112FNHDEH***



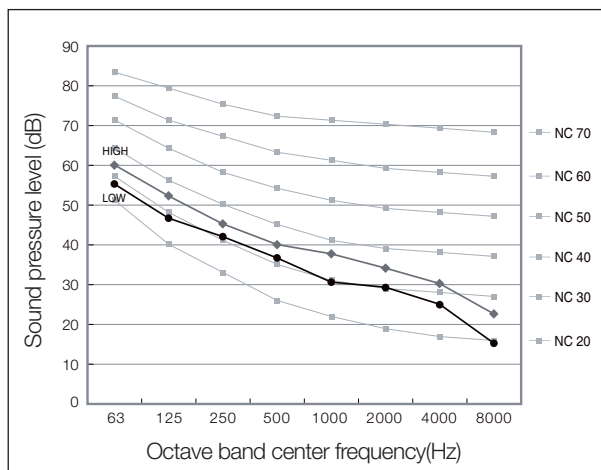
(2) AM128FNHDEH***



3) AM140FNHDEH***



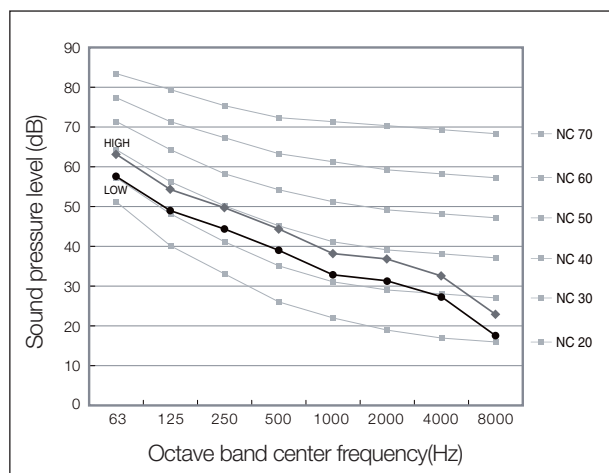
(4) AM220FNHDEH***



5 Sound pressure level

HSP Duct

(5) AM280FNHDEH ***

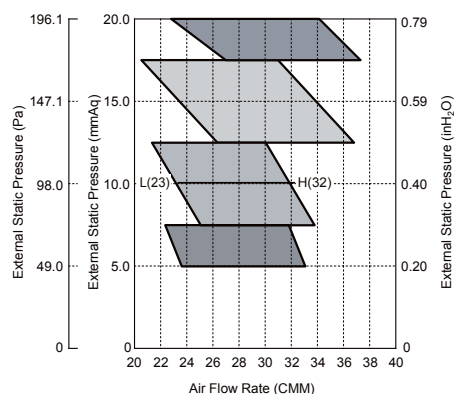


6 Recommended operation range

HSP Duct

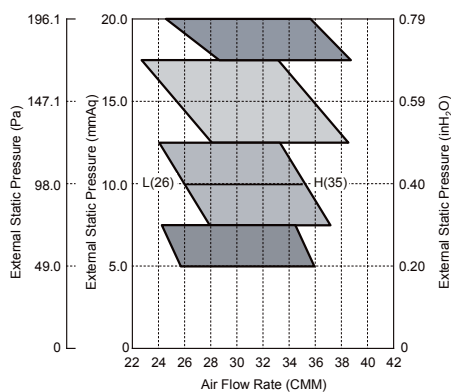
◆ Adjust option code according to the actual installation condition (external static pressure).

(1) AM112FNHDEH***



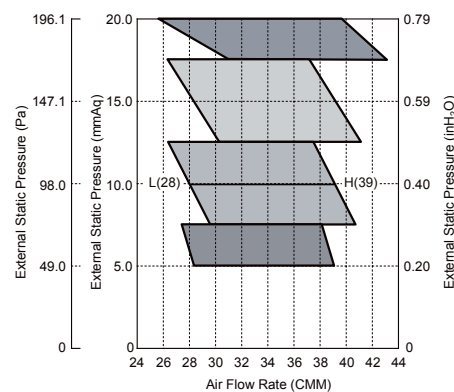
ESP (mmAq)	Option code
5	010054-1355E8-207070-331110
10	010054-13598F-207070-331110
15	010054-135E19-207070-331110
20	010054-135F70-207070-331110

(2) AM128FNHDEH***



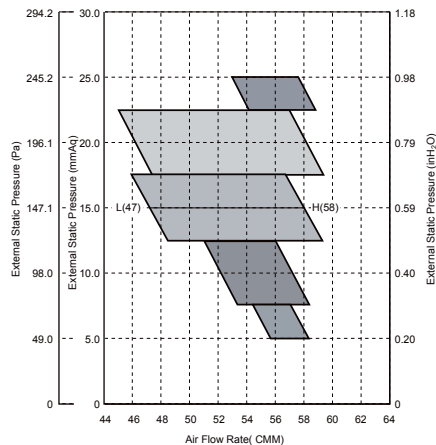
ESP (mmAq)	Option code
5	010054-13591C-208080-331110
10	010054-135AC4-208080-331110
15	010054-135E4E-208080-331110
20	010054-135F95-208080-331110

(3) AM140FNHDEH***



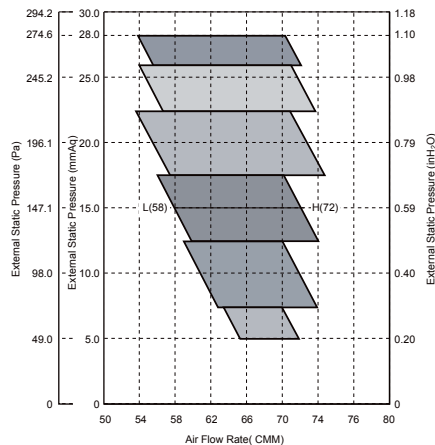
ESP (mmAq)	Option code
5	010054-13595E-208C8C-331110
10	010054-135E09-208C8C-331110
15	010054-135F71-208C8C-331110
20	010054-135FB7-208C8C-331110

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.

Neo Forte

1 Specifications

2 Capacity table

3 Dimensional drawing

4 Electrical wiring diagram

5 Sound pressure level

6 Sound power level

1 Specifications

Neo Forte

Type				Neo Forte (EEV)		Neo Forte	
Model				AM015HNQDEH/EU		AM015HNTDEH/EU	
Power Supply			Ø, #, V, Hz	1,2,220-240,50		1,2,220-240,50	
Mode			-	HP/HR		HP/HR	
Performance	Capacity (Nominal)	Cooling	kW	1.50		1.50	
			Btu/h	5,100		5,100	
		Heating	kW	1.70		1.70	
			Btu/h	5,800		5,800	
Power	Power Input (Nominal)	Cooling	W	25.00		25.00	
		Heating		25.00		25.00	
	Current Input (Nominal)	Cooling	A	0.16		0.16	
		Heating		0.16		0.16	
Fan	Motor	Type	-	Crossflow Fan		Crossflow Fan	
		Output x n	w	23 x 1		23 x 1	
	Air Flow Rate	H/M/L (UL)	CMM	5.40 / 5.10 / 4.80		5.40 / 5.10 / 4.80	
			I/s	90.00 / 85.00 / 80.00		90.00 / 85.00 / 80.00	
	External Pressure	Min/Std/Max	mmAq	-		-	
			Pa	-		-	
Piping Connections	Liquid Pipe		Ø, mm	6.35		6.35	
			Ø, inch	1/4"		1/4"	
	Gas Pipe		Ø, mm	12.70		12.70	
			Ø, inch	1/2"		1/2"	
	Drain Pipe		Ø, mm	ID18 HOSE		ID18 HOSE	
Field Wiring	Power Source Wire		mm²	1.5 - 2.5		1.5 - 2.5	
	Transmission Cable		mm²	0.75 - 1.50		0.75 - 1.50	
Refrigerant	Type		-	R410A		R410A	
	Control Method		-	EEV INCLUDED		EEV NOT INCLUDED	
Sound	Pressure	High / Mid / Low	dB(A)	26.0 / 25.0 / 24.0		26.0 / 25.0 / 24.0	
	Power	Cooling		43.0		43.0	
Dimension	Net Weight		kg	8.30		8.00	
	Shipping Weight		kg	11.30		11.00	
	Net Dimensions (WxHxD)		mm	825 x 285 x 189		825 x 285 x 189	
	Shipping Dimensions (WxHxD)		mm	904 x 353 x 263		904 x 353 x 263	
Panel Size	Panel model		-	-		-	
	Panel Net Weight		kg	-		-	
	Shipping Weight		kg	-		-	
	Net Dimensions (WxHxD)		mm	-		-	
	Shipping Dimensions (WxHxD)		mm	-		-	
Additional Accessories	Drain Pump	Drain Pump	- / Model	-		-	
		Max. lifting Height / Displacement	mm/liter/h	-		-	
	Air Filter		-	-		-	

- Mode : HP(Heat Pump), HR(Heat Recovery)

- Nominal Cooling : Indoor temperature 27°CDB / 19°CWB, Outdoor temperature 35°CDB/24°CWB, Refrigerant pipe length 7.5m, Level difference 0m.

- Nominal Heating : Indoor temperature 20°CDB/15°CWB, Outdoor temperature 7°CDB / 6°CWB, Refrigerant pipe length 7.5m, Level difference 0m.

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

- These products contain R410A which is fluorinated greenhouse gas.

- Specifications may be subject to change without prior notice.

1 Specifications

Neo Forte

Type				Neo Forte (EEV)		Neo Forte	
Model				AM022FNQDEH/EU		AM022FNTDEH/EU	
Power Supply			Ø, #, V, Hz	1,2,220-240,50		1,2,220-240,50	
Mode			-	HP/HR		HP/HR	
Performance	Capacity (Nominal)	Cooling	kW	2.20		2.20	
			Btu/h	7,500		7,500	
		Heating	kW	2.50		2.50	
			Btu/h	8,500		8,500	
Power	Power Input (Nominal)	Cooling	W	25.00		25.00	
		Heating		25.00		25.00	
	Current Input (Nominal)	Cooling	A	0.16		0.16	
		Heating		0.16		0.16	
Fan	Motor	Type	-	Crossflow Fan		Crossflow Fan	
		Output x n	w	23 x 1		23 x 1	
	Air Flow Rate	H/M/L (UL)	CMM	7.80 / 6.80 / 5.80		7.80 / 6.80 / 5.80	
			I/s	130.00 / 113.33 / 96.67		130.00 / 113.33 / 96.67	
	External Pressure	Min/Std/Max	mmAq	-		-	
			Pa	-		-	
Piping Connections	Liquid Pipe		Ø, mm	6.35		6.35	
			Ø, inch	1/4"		1/4"	
	Gas Pipe		Ø, mm	12.70		12.70	
			Ø, inch	1/2"		1/2"	
	Drain Pipe		Ø, mm	ID18 HOSE		ID18 HOSE	
Field Wiring	Power Source Wire		mm²	1.5 - 2.5		1.5 - 2.5	
	Transmission Cable		mm²	0.75 - 1.50		0.75 - 1.50	
Refrigerant	Type		-	R410A		R410A	
	Control Method		-	EEV INCLUDED		EEV NOT INCLUDED	
Sound	Pressure	High / Mid / Low	dB(A)	31.0 / 29.0 / 26.0		30.0 / 28.0 / 26.0	
	Power	Cooling		49.0		48.0	
Dimension	Net Weight		kg	8.30		8.00	
	Shipping Weight		kg	11.30		11.00	
	Net Dimensions (WxHxD)		mm	825 x 285 x 189		825 x 285 x 189	
	Shipping Dimensions (WxHxD)		mm	904 x 353 x 263		904 x 353 x 263	
Panel Size	Panel model		-	-		-	
	Panel Net Weight		kg	-		-	
	Shipping Weight		kg	-		-	
	Net Dimensions (WxHxD)		mm	-		-	
	Shipping Dimensions (WxHxD)		mm	-		-	
Additional Accessories	Drain Pump	Drain Pump	- / Model	-		-	
		Max. lifting Height / Displacement	mm/liter/h	-		-	
	Air Filter		-	-		-	

- Mode : HP(Heat Pump), HR(Heat Recovery)

- Nominal Cooling : Indoor temperature 27°CDB / 19°CWB, Outdoor temperature 35°CDB/24°CWB, Refrigerant pipe length 7.5m, Level difference 0m.

- Nominal Heating : Indoor temperature 20°CDB/15°CWB, Outdoor temperature 7°CDB / 6°CWB, Refrigerant pipe length 7.5m, Level difference 0m.

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

- These products contain R410A which is fluorinated greenhouse gas.

- Specifications may be subject to change without prior notice.

1 Specifications

Neo Forte

Type				Neo Forte (EEV)		Neo Forte	
Model				AM028FNQDEH/EU		AM028FNTDEH/EU	
Power Supply			Ø, #, V, Hz	1,2,220-240,50		1,2,220-240,50	
Mode			-	HP/HR		HP/HR	
Performance	Capacity (Nominal)	Cooling	kW	2.80		2.80	
			Btu/h	9,600		9,600	
		Heating	kW	3.20		3.20	
			Btu/h	10,900		10,900	
Power	Power Input (Nominal)	Cooling	W	25.00		25.00	
		Heating		25.00		25.00	
	Current Input (Nominal)	Cooling	A	0.16		0.16	
		Heating		0.16		0.16	
Fan	Motor	Type	-	Crossflow Fan		Crossflow Fan	
		Output x n	w	23 x 1		23 x 1	
	Air Flow Rate	H/M/L (UL)	CMM	7.80 / 6.80 / 5.80		7.80 / 6.80 / 5.80	
			I/s	130.00 / 113.33 / 96.67		130.00 / 113.33 / 96.67	
	External Pressure	Min/Std/Max	mmAq	-		-	
			Pa	-		-	
Piping Connections	Liquid Pipe		Ø, mm	6.35		6.35	
			Ø, inch	1/4"		1/4"	
	Gas Pipe		Ø, mm	12.70		12.70	
			Ø, inch	1/2"		1/2"	
	Drain Pipe		Ø, mm	ID18 HOSE		ID18 HOSE	
Field Wiring	Power Source Wire		mm²	1.5 - 2.5		1.5 - 2.5	
	Transmission Cable		mm²	0.75 - 1.50		0.75 - 1.50	
Refrigerant	Type		-	R410A		R410A	
	Control Method		-	EEV INCLUDED		EEV NOT INCLUDED	
Sound	Pressure	High / Mid / Low	dB(A)	31.0 / 29.0 / 26.0		30.0 / 28.0 / 26.0	
	Power	Cooling		49.0		48.0	
Dimension	Net Weight		kg	8.30		8.00	
	Shipping Weight		kg	11.30		11.00	
	Net Dimensions (WxHxD)		mm	825 x 285 x 189		825 x 285 x 189	
	Shipping Dimensions (WxHxD)		mm	904 x 353 x 263		910 x 358 x 258	
Panel Size	Panel model		-	-		-	
	Panel Net Weight		kg	-		-	
	Shipping Weight		kg	-		-	
	Net Dimensions (WxHxD)		mm	-		-	
	Shipping Dimensions (WxHxD)		mm	-		-	
Additional Accessories	Drain Pump	Drain Pump	- / Model	-		-	
		Max. lifting Height / Displacement	mm/liter/h	-		-	
	Air Filter		-	-		-	

- Mode : HP(Heat Pump), HR(Heat Recovery)
- Nominal Cooling : Indoor temperature 27°CDB / 19°CWB, Outdoor temperature 35°CDB/24°CWB, Refrigerant pipe length 7.5m, Level difference 0m.
- Nominal Heating : Indoor temperature 20°CDB/15°CWB, Outdoor temperature 7°CDB / 6°CWB, Refrigerant pipe length 7.5m, Level difference 0m.
- Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
- These products contain R410A which is fluorinated greenhouse gas.
- Specifications may be subject to change without prior notice.

1 Specifications

Neo Forte

Type				Neo Forte (EEV)		Neo Forte	
Model				AM036FNQDEH/EU		AM036FNTDEH/EU	
Power Supply			Ø, #, V, Hz	1,2,220-240,50		1,2,220-240,50	
Mode			-	HP/HR		HP/HR	
Performance	Capacity (Nominal)	Cooling	kW	3.60		3.60	
			Btu/h	12,300		12,300	
		Heating	kW	4.00		4.00	
			Btu/h	13,600		13,600	
Power	Power Input (Nominal)	Cooling	W	30.00		30.00	
		Heating		30.00		30.00	
	Current Input (Nominal)	Cooling	A	0.18		0.18	
		Heating		0.18		0.18	
Fan	Motor	Type	-	Crossflow Fan		Crossflow Fan	
		Output x n	w	23 x 1		23 x 1	
	Air Flow Rate	H/M/L (UL)	CMM	9.30 / 8.30 / 7.30		9.30 / 8.30 / 7.30	
			I/s	155.00 / 138.33 / 121.67		155.00 / 138.33 / 121.67	
	External Pressure	Min/Std/Max	mmAq	-		-	
			Pa	-		-	
Piping Connections	Liquid Pipe		Ø, mm	6.35		6.35	
			Ø, inch	1/4"		1/4"	
	Gas Pipe		Ø, mm	12.70		12.70	
			Ø, inch	1/2"		1/2"	
	Drain Pipe		Ø, mm	ID18 HOSE		ID18 HOSE	
Field Wiring	Power Source Wire		mm²	1.5 - 2.5		1.5 - 2.5	
	Transmission Cable		mm²	0.75 - 1.50		0.75 - 1.50	
Refrigerant	Type		-	R410A		R410A	
	Control Method		-	EEV INCLUDED		EEV NOT INCLUDED	
Sound	Pressure	High / Mid / Low	dB(A)	37.0 / 33.0 / 29.0		36.0 / 32.0 / 28.0	
	Power	Cooling		54.0		53.0	
Dimension	Net Weight		kg	8.30		8.00	
	Shipping Weight		kg	11.30		11.00	
	Net Dimensions (WxHxD)		mm	825 x 285 x 189		825 x 285 x 189	
	Shipping Dimensions (WxHxD)		mm	904 x 353 x 263		910 x 358 x 258	
Panel Size	Panel model		-	-		-	
	Panel Net Weight		kg	-		-	
	Shipping Weight		kg	-		-	
	Net Dimensions (WxHxD)		mm	-		-	
	Shipping Dimensions (WxHxD)		mm	-		-	
Additional Accessories	Drain Pump	Drain Pump	- / Model	-		-	
		Max. lifting Height / Displacement	mm/liter/h	-		-	
	Air Filter		-	-		-	

- Mode : HP(Heat Pump), HR(Heat Recovery)
- Nominal Cooling : Indoor temperature 27°CDB / 19°CWB, Outdoor temperature 35°CDB/24°CWB, Refrigerant pipe length 7.5m, Level difference 0m.
- Nominal Heating : Indoor temperature 20°CDB/15°CWB, Outdoor temperature 7°CDB / 6°CWB, Refrigerant pipe length 7.5m, Level difference 0m.
- Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
- These products contain R410A which is fluorinated greenhouse gas.
- Specifications may be subject to change without prior notice.

1 Specifications

Neo Forte

Type				Neo Forte (EEV)		Neo Forte (EEV)	
Model				AM045FNQDEH/EU		AM056FNQDEH/EU	
Power Supply			Ø, #, V, Hz	1,2,220-240,50		1,2,220-240,50	
Mode			-	HP/HR		HP/HR	
Performance	Capacity (Nominal)	Cooling	kW	4.50		5.60	
			Btu/h	15,400		19,100	
		Heating	kW	5.00		6.30	
			Btu/h	17,100		21,500	
Power	Power Input (Nominal)	Cooling	W	40.00		45.00	
		Heating		40.00		45.00	
	Current Input (Nominal)	Cooling	A	0.24		0.27	
		Heating		0.24		0.27	
Fan	Motor	Type	-	Crossflow Fan		Crossflow Fan	
		Output x n	w	40 x 1		40 x 1	
	Air Flow Rate	H/M/L (UL)	CMM	11.70 / 10.20 / 8.70		13.00 / 10.50 / 9.00	
			I/s	195.00 / 170.00 / 145.00		216.67 / 175.00 / 150.00	
	External Pressure	Min/Std/Max	mmAq	-		-	
			Pa	-		-	
Piping Connections	Liquid Pipe		Ø, mm	6.35		6.35	
			Ø, inch	1/4"		1/4"	
	Gas Pipe		Ø, mm	12.70		12.70	
			Ø, inch	1/2"		1/2"	
	Drain Pipe		Ø, mm	ID18 HOSE		ID18 HOSE	
Field Wiring	Power Source Wire		mm²	1.5 - 2.5		1.5 - 2.5	
	Transmission Cable		mm²	0.75 - 1.50		0.75 - 1.50	
Refrigerant	Type		-	R410A		R410A	
	Control Method		-	EEV INCLUDED		EEV INCLUDED	
Sound	Pressure	High / Mid / Low	dB(A)	39.0 / 37.0 / 34.0		42.0 / 39.0 / 35.0	
	Power	Cooling		55.0		58.0	
Dimension	Net Weight		kg	13.50		13.50	
	Shipping Weight		kg	16.50		16.50	
	Net Dimensions (WxHxD)		mm	1,065 x 298 x 218		1,065 x 298 x 218	
	Shipping Dimensions (WxHxD)		mm	1,137 x 377 x 299		1,137 x 377 x 299	
Panel Size	Panel model		-	-		-	
	Panel Net Weight		kg	-		-	
	Shipping Weight		kg	-		-	
	Net Dimensions (WxHxD)		mm	-		-	
	Shipping Dimensions (WxHxD)		mm	-		-	
Additional Accessories	Drain Pump	Drain Pump	- / Model	-		-	
		Max. lifting Height / Displacement	mm/liter/h	-		-	
	Air Filter		-	-		-	

- Mode : HP(Heat Pump), HR(Heat Recovery)
- Nominal Cooling : Indoor temperature 27°CDB / 19°CWB, Outdoor temperature 35°CDB/24°CWB, Refrigerant pipe length 7.5m, Level difference 0m.
- Nominal Heating : Indoor temperature 20°CDB/15°CWB, Outdoor temperature 7°CDB / 6°CWB, Refrigerant pipe length 7.5m, Level difference 0m.
- Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
- These products contain R410A which is fluorinated greenhouse gas.
- Specifications may be subject to change without prior notice.

1 Specifications

Neo Forte

Type				Neo Forte		Neo Forte (EEV)	
Model				AM056FNTDEH/EU		AM071FNQDEH/EU	
Power Supply			Ø, #, V, Hz	1,2,220-240,50		1,2,220-240,50	
Mode			-	HP/HR		HP/HR	
Performance	Capacity (Nominal)	Cooling	kW	5.60		6.80	
			Btu/h	19,100		23,200	
		Heating	kW	6.30		7.00	
			Btu/h	21,500		23,900	
Power	Power Input (Nominal)	Cooling	W	45.00		50.00	
		Heating		45.00		50.00	
	Current Input (Nominal)	Cooling	A	0.27		0.30	
		Heating		0.27		0.30	
Fan	Motor	Type	-	Crossflow Fan		Crossflow Fan	
		Output x n	w	40 x 1		40 x 1	
	Air Flow Rate	H/M/L (UL)	CMM	12.00 / 10.50 / 9.00		14.00 / 12.50 / 11.00	
			I/s	200.00 / 175.00 / 150.00		233.33 / 208.33 / 183.33	
	External Pressure	Min/Std/Max	mmAq	-		-	
			Pa	-		-	
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	ID18 HOSE		ID18 HOSE	
Field Wiring	Power Source Wire		mm²	1.5 - 2.5		1.5 - 2.5	
	Transmission Cable		mm²	0.75 - 1.50		0.75 - 1.50	
Refrigerant	Type		-	R410A		R410A	
	Control Method		-	EEV NOT INCLUDED		EEV INCLUDED	
Sound	Pressure	High / Mid / Low	dB(A)	42.0 / 40.0 / 35.0		45.0 / 40.0 / 35.0	
	Power	Cooling		57.0		60.0	
Dimension	Net Weight		kg	13.00		13.50	
	Shipping Weight		kg	16.00		16.50	
	Net Dimensions (WxHxD)		mm	1,065 x 298 x 218		1,065 x 298 x 218	
	Shipping Dimensions (WxHxD)		mm	1,137 x 377 x 299		1,137 x 377 x 299	
Panel Size	Panel model		-	-		-	
	Panel Net Weight		kg	-		-	
	Shipping Weight		kg	-		-	
	Net Dimensions (WxHxD)		mm	-		-	
	Shipping Dimensions (WxHxD)		mm	-		-	
Additional Accessories	Drain Pump	Drain Pump	- / Model	-		-	
		Max. lifting Height / Displacement	mm/liter/h	-		-	
	Air Filter		-	-		-	

- Mode : HP(Heat Pump), HR(Heat Recovery)
- Nominal Cooling : Indoor temperature 27°CDB / 19°CWB, Outdoor temperature 35°CDB/24°CWB, Refrigerant pipe length 7.5m, Level difference 0m.
- Nominal Heating : Indoor temperature 20°CDB/15°CWB, Outdoor temperature 7°CDB / 6°CWB, Refrigerant pipe length 7.5m, Level difference 0m.
- Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
- These products contain R410A which is fluorinated greenhouse gas.
- Specifications may be subject to change without prior notice.

1 Specifications

Neo Forte

Type				Neo Forte	
Model				AM071FNTDEH/EU	
Power Supply			Ø, #, V, Hz	1,2,220-240,50	
Mode			-	HP/HR	
Performance	Capacity (Nominal)	Cooling	kW	6.80	
			Btu/h	23,200	
		Heating	kW	7.00	
			Btu/h	23,900	
Power	Power Input (Nominal)	Cooling	W	50.00	
		Heating		50.00	
	Current Input (Nominal)	Cooling	A	0.30	
		Heating		0.30	
Fan	Motor	Type	-	Crossflow Fan	
		Output x n	w	40 x 1	
	Air Flow Rate	H/M/L (UL)	CMM	14.00 / 12.50 / 11.00	
			I/s	233.33 / 208.33 / 183.33	
	External Pressure	Min/Std/Max	mmAq	-	
			Pa	-	
Piping Connections	Liquid Pipe		Ø, mm	9.52	
			Ø, inch	3/8"	
	Gas Pipe		Ø, mm	15.88	
			Ø, inch	5/8"	
	Drain Pipe		Ø, mm	ID18 HOSE	
	Field Wiring	Power Source Wire		mm²	1.5 - 2.5
Transmission Cable		mm²	0.75 - 1.50		
Refrigerant	Type		-	R410A	
	Control Method		-	EEV NOT INCLUDED	
Sound	Pressure	High / Mid / Low	dB(A)	44.0 / 41.0 / 35.0	
	Power	Cooling		59.0	
Dimension	Net Weight		kg	13.00	
	Shipping Weight		kg	16.00	
	Net Dimensions (WxHxD)		mm	1,065 x 298 x 218	
	Shipping Dimensions (WxHxD)		mm	1,137 x 377 x 299	
Panel Size	Panel model		-	-	
	Panel Net Weight		kg	-	
	Shipping Weight		kg	-	
	Net Dimensions (WxHxD)		mm	-	
	Shipping Dimensions (WxHxD)		mm	-	
Additional Accessories	Drain Pump	Drain Pump	- / Model	-	
		Max. lifting Height / Displacement	mm/liter/h	-	
	Air Filter		-	-	

- Mode : HP(Heat Pump), HR(Heat Recovery)
- Nominal Cooling : Indoor temperature 27°CDB / 19°CWB, Outdoor temperature 35°CDB/24°CWB, Refrigerant pipe length 7.5m, Level difference 0m.
- Nominal Heating : Indoor temperature 20°CDB/15°CWB, Outdoor temperature 7°CDB / 6°CWB, Refrigerant pipe length 7.5m, Level difference 0m.
- Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
- These products contain R410A which is fluorinated greenhouse gas.
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2 Capacity table

Neo Forte

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity

Model	Outdoor temperature (°C, DB)	Indoor temperature (°C, WB)													
		14.0		16.0		18.0		19.0		20.0		22.0		24.0	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
1.50	10	1.00	0.90	1.20	1.00	1.40	1.10	1.50	1.00	1.60	1.00	1.70	1.00	1.90	1.00
	12	1.00	0.90	1.20	1.00	1.40	1.10	1.50	1.00	1.60	1.00	1.70	1.00	1.80	1.00
	14	1.00	0.90	1.20	1.00	1.40	1.10	1.50	1.00	1.60	1.00	1.70	1.00	1.80	1.00
	16	1.00	0.90	1.20	1.00	1.40	1.10	1.50	1.00	1.60	1.00	1.70	1.00	1.80	1.00
	18	1.00	0.90	1.20	1.00	1.40	1.10	1.50	1.00	1.60	1.00	1.70	1.00	1.80	1.00
	20	1.00	0.90	1.20	1.00	1.40	1.10	1.50	1.00	1.60	1.00	1.70	1.00	1.80	1.00
	21	1.00	0.90	1.20	1.00	1.40	1.10	1.50	1.00	1.60	1.00	1.70	1.00	1.80	1.00
	23	1.00	0.90	1.20	1.00	1.40	1.10	1.50	1.00	1.60	1.00	1.70	1.00	1.80	1.00
	25	1.00	0.90	1.20	1.00	1.40	1.10	1.50	1.00	1.60	1.00	1.70	1.00	1.80	1.00
	27	1.00	0.90	1.20	1.00	1.40	1.10	1.50	1.00	1.60	1.00	1.70	1.00	1.80	1.00
	29	1.00	0.90	1.20	1.00	1.40	1.10	1.50	1.00	1.60	1.00	1.70	1.00	1.80	1.00
	31	1.00	0.90	1.20	1.00	1.40	1.10	1.50	1.00	1.60	1.00	1.70	1.00	1.80	1.00
	33	1.00	0.90	1.20	1.00	1.40	1.10	1.50	1.00	1.60	1.00	1.70	1.00	1.80	1.00
	35	1.00	0.90	1.20	1.00	1.40	1.10	1.50	1.00	1.60	1.00	1.70	1.00	1.80	1.00
	37	1.00	0.90	1.20	1.00	1.40	1.10	1.50	1.00	1.60	1.00	1.70	1.00	1.80	1.00
	39	1.00	0.90	1.20	1.00	1.40	1.10	1.50	1.00	1.60	1.00	1.60	1.00	1.70	1.00
2.20	10	1.50	1.30	1.80	1.50	2.10	1.50	2.20	1.50	2.30	1.50	2.50	1.60	2.60	1.40
	12	1.50	1.30	1.80	1.50	2.10	1.50	2.20	1.50	2.30	1.50	2.50	1.60	2.60	1.40
	14	1.50	1.30	1.80	1.50	2.10	1.50	2.20	1.50	2.30	1.50	2.50	1.60	2.60	1.40
	16	1.50	1.30	1.80	1.50	2.10	1.50	2.20	1.50	2.30	1.50	2.40	1.50	2.60	1.40
	18	1.50	1.30	1.80	1.50	2.10	1.50	2.20	1.50	2.30	1.50	2.40	1.50	2.60	1.40
	20	1.50	1.30	1.80	1.50	2.10	1.50	2.20	1.50	2.30	1.50	2.40	1.50	2.60	1.40
	21	1.50	1.30	1.80	1.50	2.10	1.50	2.20	1.50	2.30	1.50	2.40	1.50	2.60	1.40
	23	1.50	1.30	1.80	1.50	2.10	1.50	2.20	1.50	2.30	1.50	2.40	1.50	2.60	1.40
	25	1.50	1.30	1.80	1.50	2.10	1.50	2.20	1.50	2.30	1.50	2.40	1.50	2.60	1.40
	27	1.50	1.30	1.80	1.50	2.10	1.50	2.20	1.50	2.30	1.50	2.40	1.50	2.60	1.40
	29	1.50	1.30	1.80	1.50	2.10	1.50	2.20	1.50	2.30	1.50	2.40	1.50	2.60	1.40
	31	1.50	1.30	1.80	1.50	2.10	1.50	2.20	1.50	2.30	1.50	2.40	1.50	2.60	1.40
	33	1.50	1.30	1.80	1.50	2.10	1.50	2.20	1.50	2.30	1.50	2.40	1.50	2.60	1.40
	35	1.50	1.30	1.80	1.50	2.10	1.50	2.20	1.50	2.30	1.50	2.40	1.50	2.60	1.40
	37	1.50	1.30	1.80	1.50	2.10	1.50	2.20	1.50	2.30	1.50	2.40	1.50	2.60	1.40
	39	1.50	1.30	1.80	1.50	2.10	1.50	2.20	1.50	2.30	1.50	2.40	1.50	2.50	1.30
2.80	10	1.90	1.60	2.30	1.80	2.60	2.00	2.80	1.90	2.90	1.90	3.10	1.90	3.40	1.90
	12	1.90	1.60	2.30	1.80	2.60	2.00	2.80	1.90	2.90	1.90	3.10	1.90	3.30	1.80
	14	1.90	1.60	2.30	1.80	2.60	2.00	2.80	1.90	2.90	1.90	3.10	1.90	3.30	1.80
	16	1.90	1.60	2.30	1.80	2.60	2.00	2.80	1.90	2.90	1.90	3.10	1.90	3.30	1.80
	18	1.90	1.60	2.30	1.80	2.60	2.00	2.80	1.90	2.90	1.90	3.10	1.90	3.30	1.80
	20	1.90	1.60	2.30	1.80	2.60	2.00	2.80	1.90	2.90	1.90	3.10	1.90	3.30	1.80
	21	1.90	1.60	2.30	1.80	2.60	2.00	2.80	1.90	2.90	1.90	3.10	1.90	3.30	1.80
	23	1.90	1.60	2.30	1.80	2.60	2.00	2.80	1.90	2.90	1.90	3.10	1.90	3.30	1.80
	25	1.90	1.60	2.30	1.80	2.60	2.00	2.80	1.90	2.90	1.90	3.10	1.90	3.30	1.80
	27	1.90	1.60	2.30	1.80	2.60	2.00	2.80	1.90	2.90	1.90	3.10	1.90	3.30	1.80
	29	1.90	1.60	2.30	1.80	2.60	2.00	2.80	1.90	2.90	1.90	3.10	1.90	3.30	1.80
	31	1.90	1.60	2.30	1.80	2.60	2.00	2.80	1.90	2.90	1.90	3.10	1.90	3.30	1.80
	33	1.90	1.60	2.30	1.80	2.60	2.00	2.80	1.90	2.90	1.90	3.10	1.90	3.30	1.80
	35	1.90	1.60	2.30	1.80	2.60	2.00	2.80	1.90	2.90	1.90	3.10	1.90	3.30	1.80
	37	1.90	1.60	2.30	1.80	2.60	2.00	2.80	1.90	2.90	1.90	3.10	1.90	3.30	1.80
	39	1.90	1.60	2.30	1.80	2.60	2.00	2.80	1.90	2.90	1.90	3.00	1.80	3.20	1.70
3.60	10	2.50	2.10	2.90	2.20	3.40	2.30	3.60	2.40	3.70	2.40	4.00	2.40	4.30	2.30
	12	2.50	2.10	2.90	2.20	3.40	2.30	3.60	2.40	3.70	2.40	4.00	2.40	4.30	2.30
	14	2.50	2.10	2.90	2.20	3.40	2.30	3.60	2.40	3.70	2.40	4.00	2.40	4.30	2.30
	16	2.50	2.10	2.90	2.20	3.40	2.30	3.60	2.40	3.70	2.40	4.00	2.40	4.30	2.30
	18	2.50	2.10	2.90	2.20	3.40	2.30	3.60	2.40	3.70	2.40	4.00	2.40	4.30	2.30
	20	2.50	2.10	2.90	2.20	3.40	2.30	3.60	2.40	3.70	2.40	4.00	2.40	4.20	2.30
	21	2.50	2.10	2.90	2.20	3.40	2.30	3.60	2.40	3.70	2.40	4.00	2.40	4.20	2.30
	23	2.50	2.10	2.90	2.20	3.40	2.30	3.60	2.40	3.70	2.40	4.00	2.40	4.20	2.30
	25	2.50	2.10	2.90	2.20	3.40	2.30	3.60	2.40	3.70	2.40	4.00	2.40	4.20	2.30
	27	2.50	2.10	2.90	2.20	3.40	2.30	3.60	2.40	3.70	2.40	4.00	2.40	4.20	2.30
	29	2.50	2.10	2.90	2.20	3.40	2.30	3.60	2.40	3.70	2.40	4.00	2.40	4.20	2.30
	31	2.50	2.10	2.90	2.20	3.40	2.30	3.60	2.40	3.70	2.40	4.00	2.40	4.20	2.30
	33	2.50	2.10	2.90	2.20	3.40	2.30	3.60	2.40	3.70	2.40	4.00	2.40	4.20	2.30
	35	2.50	2.10	2.90	2.20	3.40	2.30	3.60	2.40	3.70	2.40	4.00	2.40	4.20	2.30
	37	2.50	2.10	2.90	2.20	3.40	2.30	3.60	2.40	3.70	2.40	3.90	2.30	4.20	2.30
	39	2.50	2.10	2.90	2.20	3.40	2.30	3.60	2.40	3.70	2.40	3.90	2.30	4.10	2.20
4.50	10	3.13	2.41	3.70	2.73	4.26	2.97	4.50	3.05	4.66	3.05	5.06	3.13	5.38	2.89
	12	3.13	2.41	3.70	2.73	4.26	2.97	4.50	3.05	4.66	3.05	5.06	3.13	5.38	2.89
	14	3.13	2.41	3.70	2.73	4.26	2.97	4.50	3.05	4.66	3.05	4.98	3.05	5.38	2.89
	16	3.13	2.41	3.70	2.73	4.26	2.97	4.50	3.05	4.66	3.05	4.98	3.05	5.30	2.81
	18	3.13	2.41	3.70	2.73	4.26	2.97	4.50	3.05	4.66	3.05	4.98	3.05	5.30	2.81
	20	3.13	2.41	3.70	2.73	4.26	2.97	4.50	3.05	4.66	3.05	4.98	3.05	5.30	2.81
	21	3.13	2.41	3.70	2.73	4.26	2.97	4.50	3.05	4.66	3.05	4.98	3.05	5.30	2.81
	23	3.13	2.41	3.70	2.73	4.26	2.97	4.50	3.05	4.66	3.05	4.98	3.05	5.30	2.81
	25	3.13	2.41	3.70	2.73	4.26	2.97	4.50	3.05	4.66	3.05	4.98	3.05	5.30	2.81
	27	3.13	2.41	3.70	2.73	4.26	2.97	4.50	3.05	4.66	3.05	4.98	3.05	5.30	2.81
	29	3.13	2.41	3.70	2.73	4.26	2.97	4.50	3.05	4.66	3.05	4.98	3.05	5.30	2.81
	31	3.13	2.41	3.70	2.73	4.26	2.97	4.50	3.05	4.66	3.05	4.98	3.05	5.30	2.81
	33	3.13	2.41	3.70	2.73	4.26	2.97	4.50	3.05	4.66	3.05	4.98	3.05	5.30	2.81
	35	3.13	2.41	3.70	2.73	4.26	2.97	4.50	3.05	4.66	3.05	4.98	3.05	5.30	2.81
	37	3.13	2.41	3.70	2.73	4.26	2.97	4.50	3.05	4.66	3.05	4.90	2.97	5.22	2.73
	39	3.13	2.41	3.70	2.73	4.26	2.97	4.50	3.05	4.66	3.05	4.90	2.97	5.14	2.65
5.60	10	3.90	3.00	4.60	3.40	5.30	3.70	5.60	3.80	5.80	3.80	6.30	3.90	6.70	3.60
	12	3.90	3.00	4.60	3.40	5.30	3.70	5.60	3.80	5.80	3.80	6.30	3.90	6.70	3.60
	14	3.90	3.00	4.60	3.40	5.30	3.70	5.60	3.80	5.80	3.80	6.20	3.80	6.70	3.60
	16	3.90	3.00	4.60	3.40	5.30	3.70	5.60	3.80	5.80	3.80	6.20	3.80	6.60	3.50
	18	3.90	3.00	4.60	3.40	5.30	3.70	5.60	3.80	5.80	3.80	6.20	3.80	6.60	3.50
	20	3.90	3.00	4.60	3.40	5.30	3.70	5.60	3.80	5.80	3.80	6.20	3.80	6.60	3.50
	21	3.90	3.00	4.60	3.40	5.30	3.70	5.60	3.80	5.80	3.80	6.20	3.80	6.60	3.50
	23	3.90	3.00	4.60	3.40	5.30	3.70	5.60	3.80	5.80	3.80	6.20	3.80	6.60	3.50

2 Capacity table

Neo Forte

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity

Model	Outdoor temperature (°C, DB)	Indoor temperature (°C, WB)													
		14.0		16.0		18.0		19.0		20.0		22.0		24.0	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
5.60	29	3.90	3.00	4.60	3.40	5.30	3.70	5.60	3.80	5.80	3.80	6.20	3.80	6.60	3.50
	31	3.90	3.00	4.60	3.40	5.30	3.70	5.60	3.80	5.80	3.80	6.20	3.80	6.60	3.50
	33	3.90	3.00	4.60	3.40	5.30	3.70	5.60	3.80	5.80	3.80	6.20	3.80	6.60	3.50
	35	3.90	3.00	4.60	3.40	5.30	3.70	5.60	3.80	5.80	3.80	6.20	3.80	6.60	3.50
	37	3.90	3.00	4.60	3.40	5.30	3.70	5.60	3.80	5.80	3.80	6.10	3.70	6.50	3.40
	39	3.90	3.00	4.60	3.40	5.30	3.70	5.60	3.80	5.80	3.80	6.10	3.70	6.40	3.30
7.10	10	4.70	3.70	5.50	4.10	6.40	4.50	6.80	4.60	7.10	4.60	7.60	4.60	8.20	4.40
	12	4.70	3.70	5.50	4.10	6.40	4.50	6.80	4.60	7.10	4.60	7.60	4.60	8.10	4.30
	14	4.70	3.70	5.50	4.10	6.40	4.50	6.80	4.60	7.10	4.60	7.60	4.60	8.10	4.30
	16	4.70	3.70	5.50	4.10	6.40	4.50	6.80	4.60	7.10	4.60	7.60	4.60	8.10	4.30
	18	4.70	3.70	5.50	4.10	6.40	4.50	6.80	4.60	7.00	4.60	7.50	4.50	8.00	4.20
	20	4.70	3.70	5.50	4.10	6.40	4.50	6.80	4.60	7.00	4.60	7.50	4.50	8.00	4.20
	21	4.70	3.70	5.50	4.10	6.40	4.50	6.80	4.60	7.00	4.60	7.50	4.50	8.00	4.20
	23	4.70	3.70	5.50	4.10	6.40	4.50	6.80	4.60	7.00	4.60	7.50	4.50	8.00	4.20
	25	4.70	3.70	5.50	4.10	6.40	4.50	6.80	4.60	7.00	4.60	7.50	4.50	8.00	4.20
	27	4.70	3.70	5.50	4.10	6.40	4.50	6.80	4.60	7.00	4.60	7.50	4.50	8.00	4.20
	29	4.70	3.70	5.50	4.10	6.40	4.50	6.80	4.60	7.00	4.60	7.50	4.50	8.00	4.20
	31	4.70	3.70	5.50	4.10	6.40	4.50	6.80	4.60	7.00	4.60	7.50	4.50	8.00	4.20
	33	4.70	3.70	5.50	4.10	6.40	4.50	6.80	4.60	7.00	4.60	7.50	4.50	8.00	4.20
	35	4.70	3.70	5.50	4.10	6.40	4.50	6.80	4.60	7.00	4.60	7.50	4.50	8.00	4.20
	37	4.70	3.70	5.50	4.10	6.40	4.50	6.80	4.60	7.00	4.60	7.50	4.50	7.90	4.10
	39	4.70	3.70	5.50	4.10	6.40	4.50	6.80	4.60	7.00	4.60	7.40	4.40	7.70	4.00

2 Capacity table

Neo Forte

Heating

TC : Total Capacity

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
1.50	-20	-21	1.00	1.00	1.00	1.00	0.90
	-17	-18	1.00	1.00	1.00	1.00	0.90
	-15	-16	1.10	1.10	1.00	1.00	0.90
	-12	-13	1.10	1.10	1.10	1.10	1.00
	-10	-11	1.20	1.20	1.20	1.20	1.10
	-7	-8	1.30	1.30	1.30	1.30	1.20
	-5	-6	1.40	1.40	1.30	1.30	1.20
	-3	-4	1.40	1.40	1.40	1.30	1.30
	0	-1	1.50	1.50	1.50	1.40	1.40
	3	2	1.50	1.50	1.50	1.40	1.40
	5	4	1.60	1.60	1.60	1.50	1.40
	7	6	1.70	1.70	1.70	1.60	1.40
	9	8	1.80	1.70	1.70	1.60	1.40
	11	10	1.80	1.70	1.70	1.60	1.40
	13	12	2.00	1.80	1.70	1.60	1.40
2.20	-20	-21	1.50	1.50	1.50	1.50	1.50
	-17	-18	1.60	1.60	1.60	1.60	1.60
	-15	-16	1.70	1.60	1.60	1.60	1.60
	-12	-13	1.80	1.80	1.80	1.80	1.70
	-10	-11	2.00	2.00	1.90	1.90	1.90
	-7	-8	2.30	2.20	2.20	2.00	2.00
	-5	-6	2.40	2.30	2.30	2.20	2.20
	-3	-4	2.50	2.50	2.40	2.30	2.20
	0	-1	2.60	2.50	2.50	2.30	2.20
	3	2	2.70	2.60	2.50	2.30	2.20
	5	4	2.80	2.70	2.50	2.30	2.20
	7	6	2.80	2.70	2.50	2.30	2.20
	9	8	3.00	2.70	2.50	2.30	2.20
	11	10	3.00	2.70	2.50	2.30	2.20
	13	12	3.00	2.70	2.50	2.30	2.20
2.80	-20	-21	1.90	1.90	1.90	1.90	1.90
	-17	-18	2.00	2.00	2.00	2.00	1.90
	-15	-16	2.10	2.10	2.00	2.00	1.90
	-12	-13	2.20	2.20	2.20	2.10	2.10
	-10	-11	2.30	2.30	2.30	2.30	2.20
	-7	-8	2.50	2.40	2.40	2.40	2.30
	-5	-6	2.60	2.60	2.50	2.50	2.40
	-3	-4	2.80	2.70	2.70	2.60	2.50
	0	-1	2.90	2.80	2.80	2.70	2.60
	3	2	3.00	3.00	2.90	2.80	2.70
	5	4	3.20	3.10	3.10	2.90	2.70
	7	6	3.30	3.20	3.20	3.00	2.70
	9	8	3.40	3.30	3.20	3.00	2.70
	11	10	3.50	3.30	3.20	3.00	2.70
	13	12	3.60	3.40	3.20	3.00	2.70
3.60	-20	-21	3.70	3.40	3.20	3.00	2.70
	-17	-18	2.40	2.40	2.30	2.30	2.30
	-15	-16	2.60	2.50	2.40	2.40	2.30
	-12	-13	2.70	2.60	2.50	2.50	2.40
	-10	-11	2.80	2.70	2.70	2.60	2.60
	-7	-8	2.90	2.90	2.90	2.80	2.80
	-5	-6	3.10	3.10	3.00	3.00	2.90
	-3	-4	3.30	3.20	3.20	3.10	3.00
	0	-1	3.40	3.40	3.30	3.20	3.10
	3	2	3.60	3.60	3.50	3.40	3.20
	5	4	3.80	3.70	3.70	3.50	3.40
	7	6	3.90	3.90	3.80	3.60	3.40
	9	8	4.10	4.10	4.00	3.70	3.40
	11	10	4.20	4.10	4.00	3.70	3.40
	13	12	4.40	4.20	4.00	3.70	3.40
4.50	-20	-21	3.10	3.02	3.02	2.94	2.94
	-17	-18	3.17	3.17	3.10	3.02	3.02
	-15	-16	3.33	3.25	3.17	3.10	3.02
	-12	-13	3.49	3.41	3.33	3.33	3.25
	-10	-11	3.65	3.65	3.57	3.49	3.49
	-7	-8	3.89	3.81	3.81	3.73	3.57
	-5	-6	4.13	4.05	3.97	3.89	3.73
	-3	-4	4.29	4.21	4.21	4.05	3.89
	0	-1	4.52	4.44	4.37	4.21	3.97
	3	2	4.68	4.68	4.60	4.44	4.21
	5	4	4.92	4.84	4.76	4.52	4.21
	7	6	5.16	5.08	5.00	4.60	4.21
	9	8	5.32	5.16	5.00	4.60	4.21
	11	10	5.48	5.24	5.00	4.60	4.21
	13	12	5.63	5.32	5.00	4.60	4.21
5.60	15	14	5.79	5.40	5.00	4.60	4.21
	-20	-21	3.90	3.80	3.80	3.70	3.70
	-17	-18	4.00	4.00	3.90	3.80	3.80
	-15	-16	4.20	4.10	4.00	3.90	3.80
	-12	-13	4.40	4.30	4.20	4.20	4.10
	-10	-11	4.60	4.60	4.50	4.40	4.40
	-7	-8	4.90	4.80	4.80	4.70	4.50
	-5	-6	5.20	5.10	5.00	4.90	4.70
	-3	-4	5.40	5.30	5.30	5.10	4.90
	0	-1	5.70	5.60	5.50	5.30	5.00
	3	2	5.90	5.90	5.80	5.60	5.30

2 Capacity table

Neo Forte

Heating

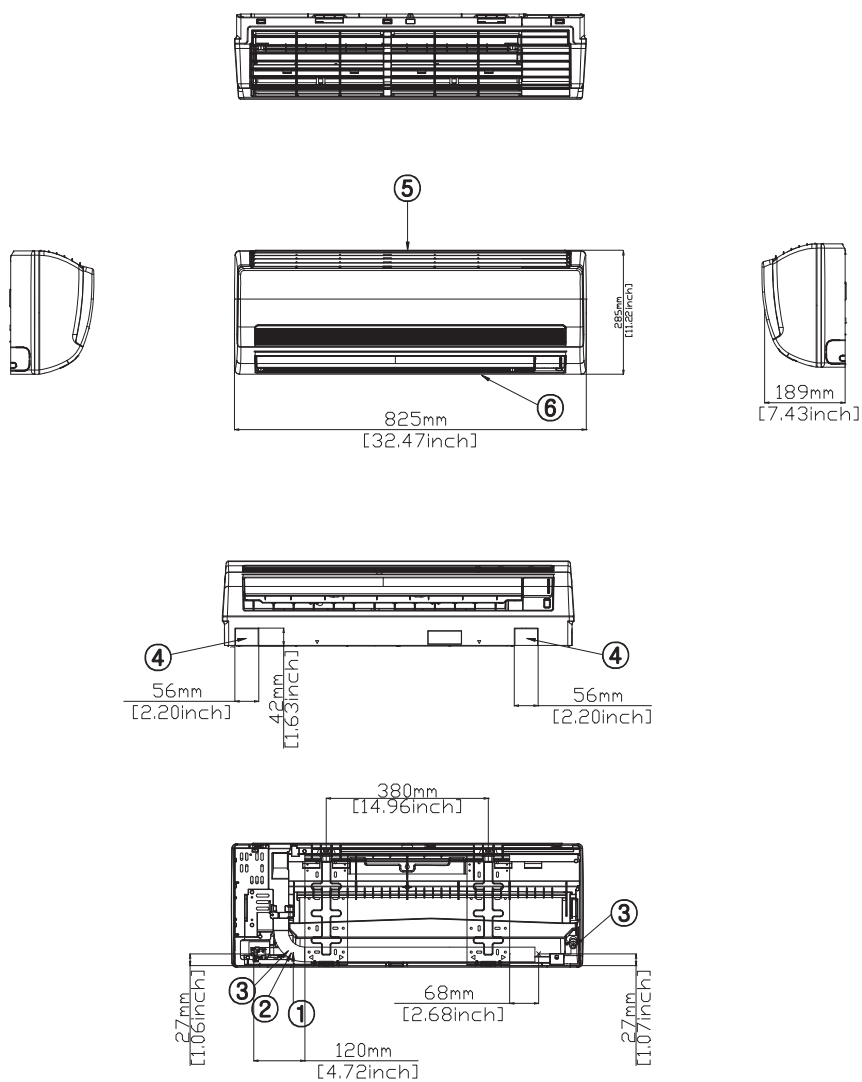
TC : Total Capacity

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
5.60	5	4	6.20	6.10	6.00	5.70	5.30
	7	6	6.50	6.40	6.30	5.80	5.30
	9	8	6.70	6.50	6.30	5.80	5.30
	11	10	6.90	6.60	6.30	5.80	5.30
	13	12	7.10	6.70	6.30	5.80	5.30
	15	14	7.30	6.80	6.30	5.80	5.30
7.10	-20	-21	4.40	4.30	4.20	4.20	4.20
	-17	-18	4.50	4.40	4.30	4.30	4.20
	-15	-16	4.70	4.60	4.40	4.30	4.20
	-12	-13	4.90	4.80	4.70	4.60	4.50
	-10	-11	5.10	5.10	5.00	4.90	4.90
	-7	-8	5.40	5.40	5.30	5.20	5.10
	-5	-6	5.70	5.60	5.60	5.40	5.20
	-3	-4	6.00	5.90	5.90	5.60	5.40
	0	-1	6.30	6.20	6.10	5.90	5.60
	3	2	6.60	6.50	6.40	6.20	5.90
	5	4	6.90	6.80	6.70	6.30	5.90
	7	6	7.20	7.10	7.00	6.50	5.90
	9	8	7.40	7.20	7.00	6.50	5.90
	11	10	7.60	7.30	7.00	6.50	5.90
	13	12	7.90	7.40	7.00	6.50	5.90
	15	14	8.10	7.50	7.00	6.50	5.90

3 Dimensional drawing

Neo Forte

AM015HNQDEH/EU, AM015HNTDEH/EU, AM022FNQDEH/EU, AM022FNTDEH/EU, AM028FNQDEH/EU, AM028FNTDEH/EU, AM036FNQDEH/EU, AM036FNTDEH/EU

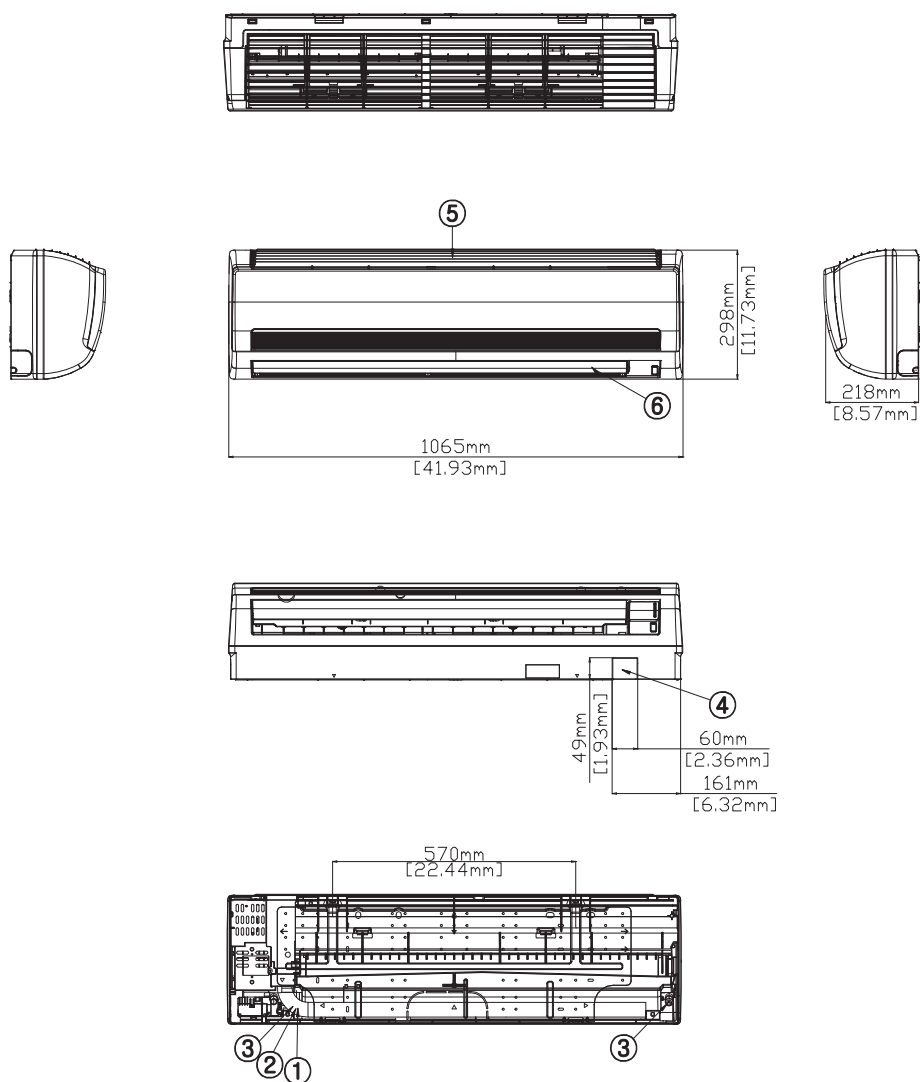


No.	Name
①	Liquid Ref. Pipe
②	Gas Ref. Pipe
③	Drain Pipe Connection
④	Conduit for power supply & Communication wiring
⑤	Air inlet grille
⑥	Air outlet louver

3 Dimensional drawing

Neo Forte

AM045FNQDEH/EU, AM056FNQDEH/EU, AM056FNTDEH/EU, AM071FNQDEH/EU, AM071FNTDEH/EU

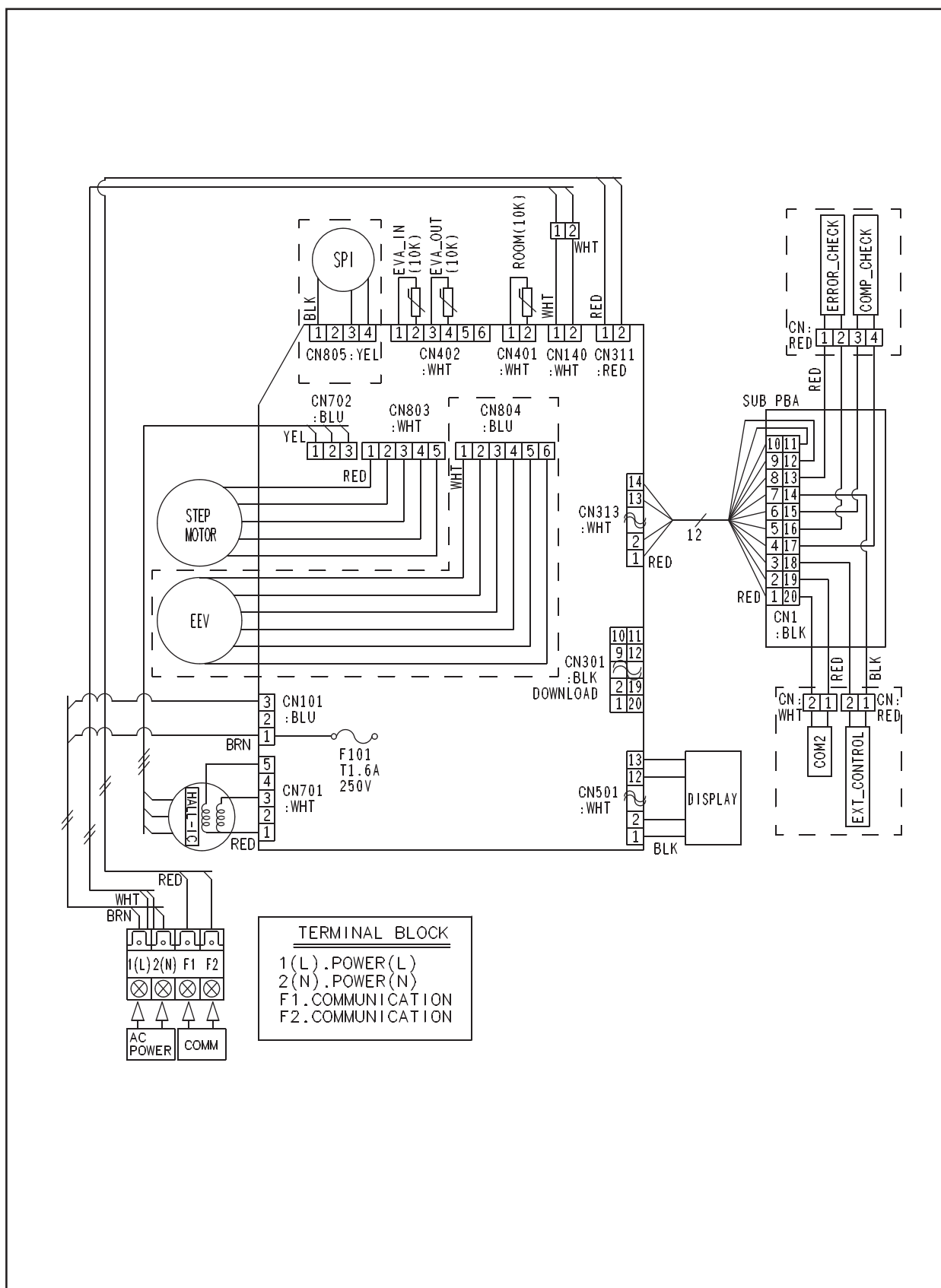


No.	Name
①	Liquid Ref. Pipe
②	Gas Ref. Pipe
③	Drain Pipe Connection
④	Conduit for power supply & Communication wiring
⑤	Air inlet grille
⑥	Air outlet louver

4 Electrical wiring diagram

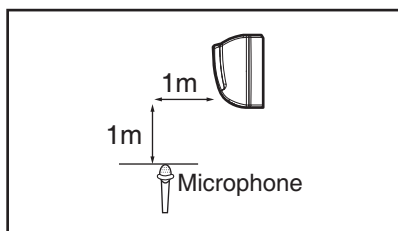
Neo Forte

AM015HNQDEH/EU, AM015HNTDEH/EU, AM022FNQDEH/EU, AM022FNTDEH/EU, AM028FNQDEH/EU, AM028FNTDEH/EU, AM036FNQDEH/EU, AM036FNTDEH/EU, AM045FNQDEH/EU, AM056FNQDEH/EU, AM056FNTDEH/EU, AM071FNQDEH/EU, AM071FNTDEH/EU



5 Sound pressure level

Neo Forte



Unit: dB(A)

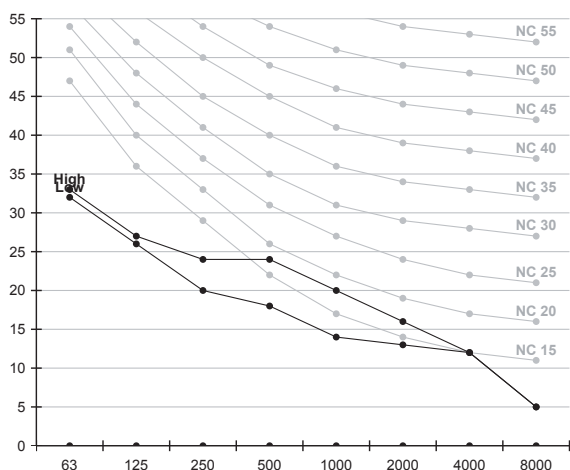
Model	High	Low
AM015HNQDEH/EU	26.0	24.0
AM015HNTDEH/EU	26.0	24.0
AM022FNQDEH/EU	31.0	26.0
AM022FNTDEH/EU	30.0	26.0

Note

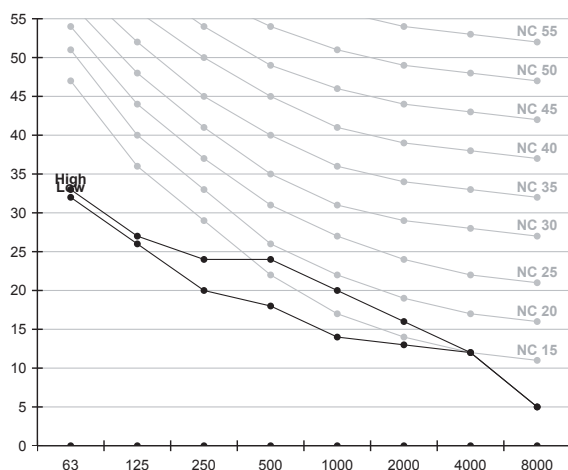
- Measuring place: Anechoic chamber (conversion value)
- These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a construction of the particular room where the equipment is installed.
- Operation sound level may differ depending on operation and ambient conditions.

NC curve

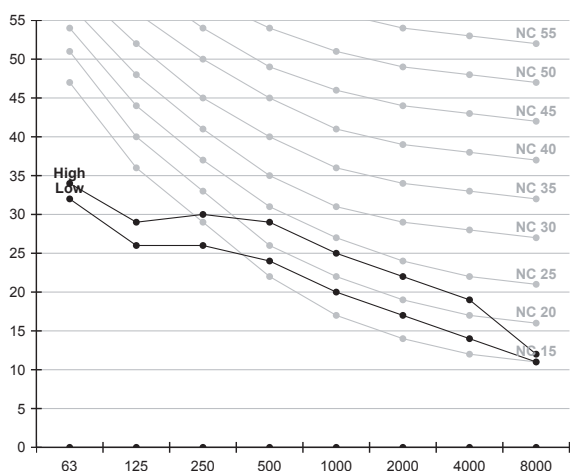
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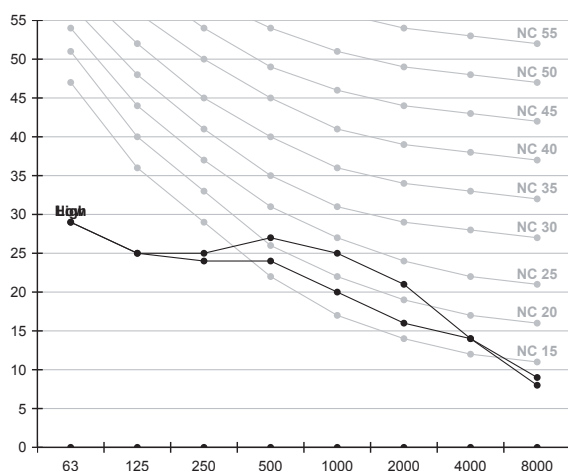
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3) AM022FNQDEH/EU

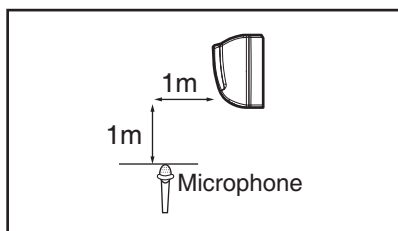


4) AM022FNTDEH/EU



5 Sound pressure level

Neo Forte



Unit: dB(A)

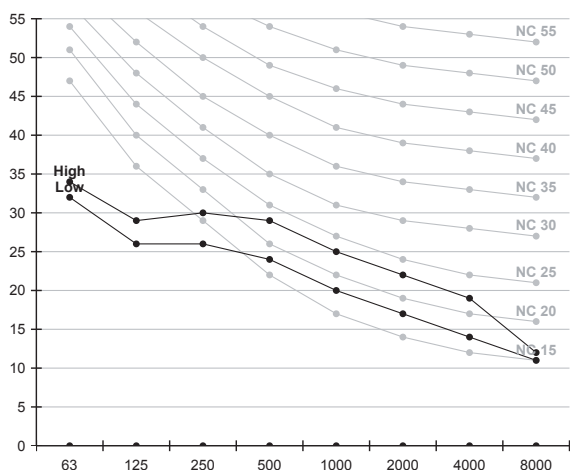
Model	High	Low
AM028FNQDEH/EU	31.0	26.0
AM028FNTDEH/EU	30.0	26.0
AM036FNQDEH/EU	37.0	29.0
AM036FNTDEH/EU	36.0	28.0

Note

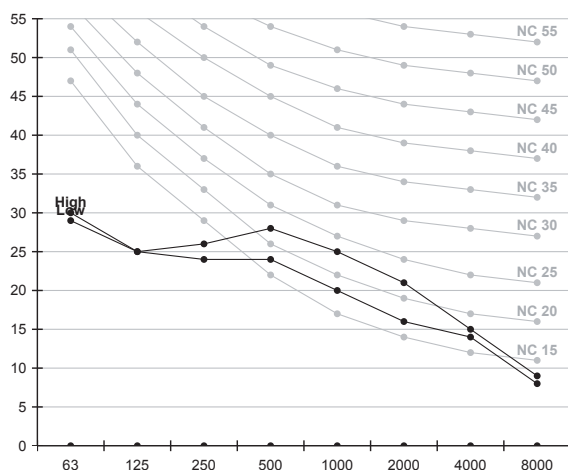
- Measuring place: Anechoic chamber (conversion value)
- These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a construction of the particular room where the equipment is installed.
- Operation sound level may differ depending on operation and ambient conditions.

NC curve

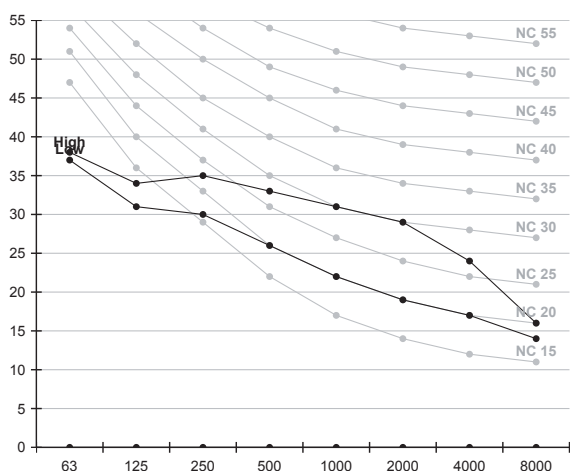
1) AM028FNQDEH/EU



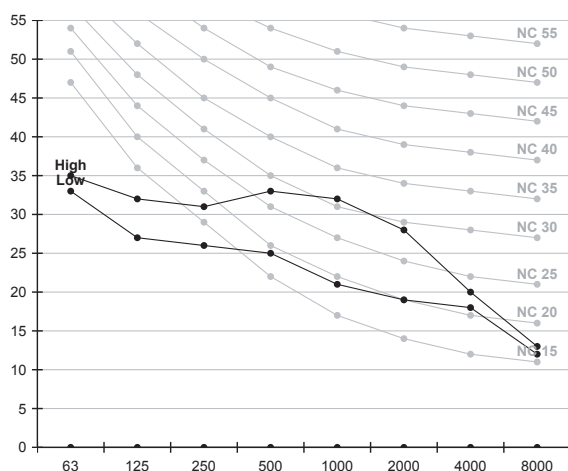
2) AM028FNTDEH/EU



3) AM036FNQDEH/EU

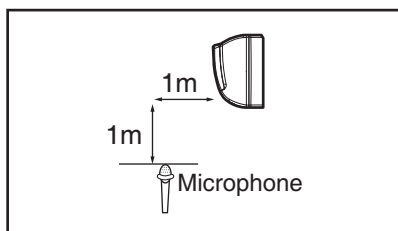


4) AM036FNTDEH/EU



5 Sound pressure level

Neo Forte



Unit: dB(A)

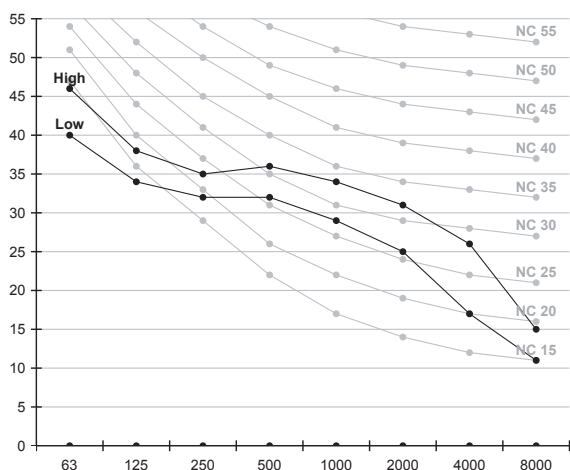
Model	High	Low
AM045FNQDEH/EU	39.0	34.0
AM056FNQDEH/EU	42.0	35.0
AM056FNTDEH/EU	42.0	35.0
AM071FNQDEH/EU	45.0	35.0

Note

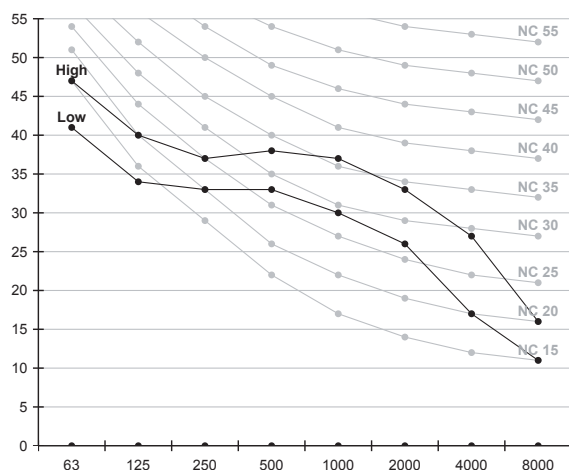
- Measuring place: Anechoic chamber (conversion value)
- These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a construction of the particular room where the equipment is installed.
- Operation sound level may differ depending on operation and ambient conditions.

NC curve

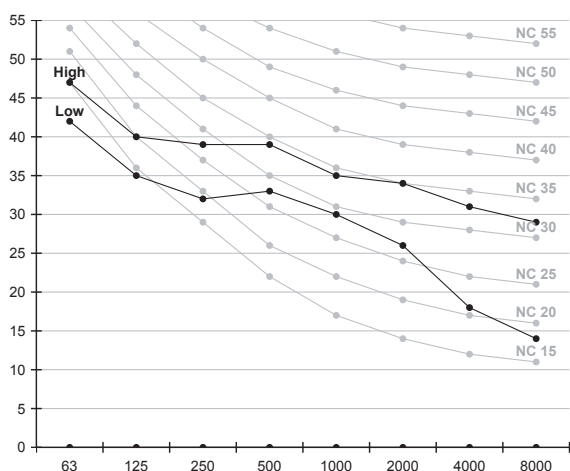
1) AM045FNQDEH/EU



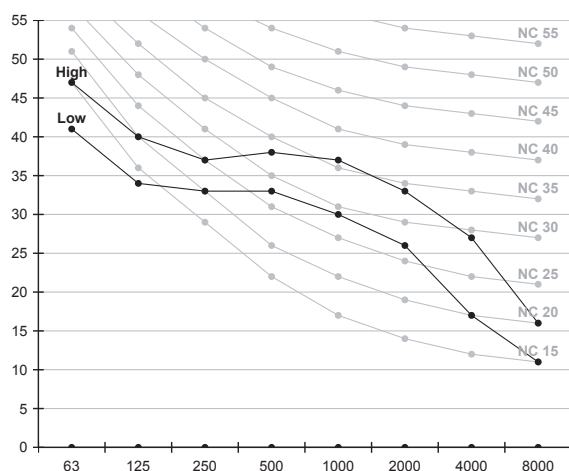
2) AM056FNQDEH/EU



3) AM056FNTDEH/EU

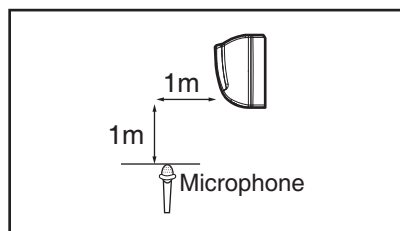


4) AM071FNQDEH/EU



5 Sound pressure level

Neo Forte



Unit: dB(A)

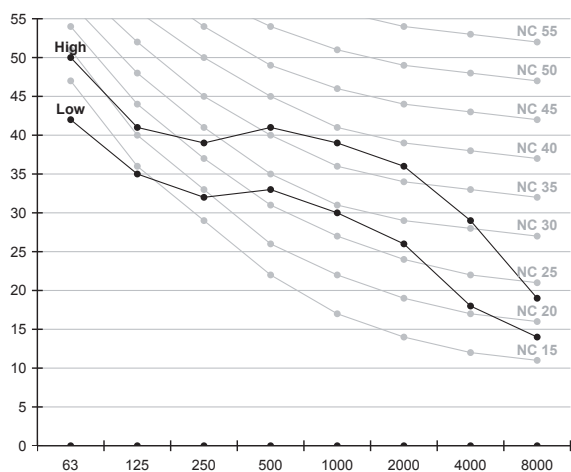
Model	High	Low
AM071FNTDEH/EU	44.0	35.0

Note

- Measuring place: Anechoic chamber (conversion value)
- These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a construction of the particular room where the equipment is installed.
- Operation sound level may differ depending on operation and ambient conditions.

NC curve

1) AM071FNTDEH/EU



6 Sound power level

Neo Forte

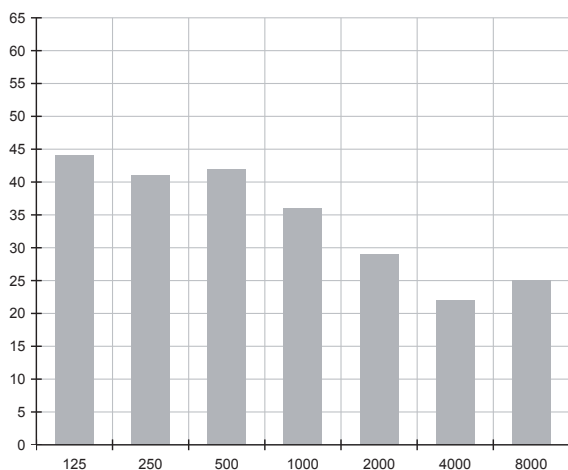
Note

- dBA = A-Weighted sound power level.
- Reference power : 1pW
- Measured according to ISO 3741.

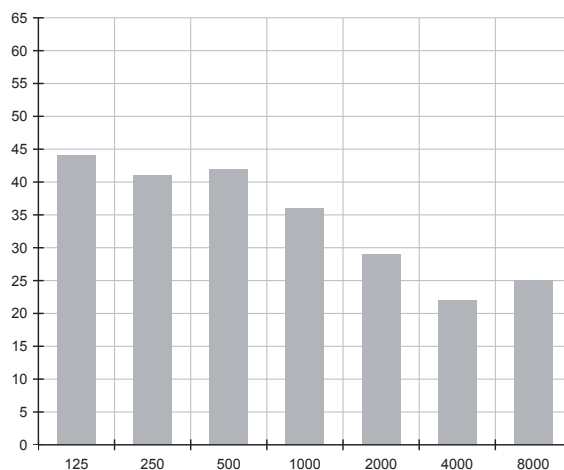
Unit: dB(A)

Model	Power
AM015HNQDEH/EU	43.0
AM015HNTDEH/EU	43.0
AM022FNQDEH/EU	49.0
AM022FNTDEH/EU	48.0

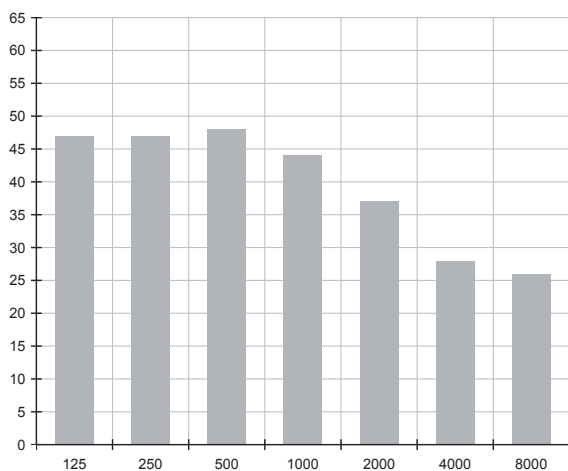
1)AM015HNQDEH/EU



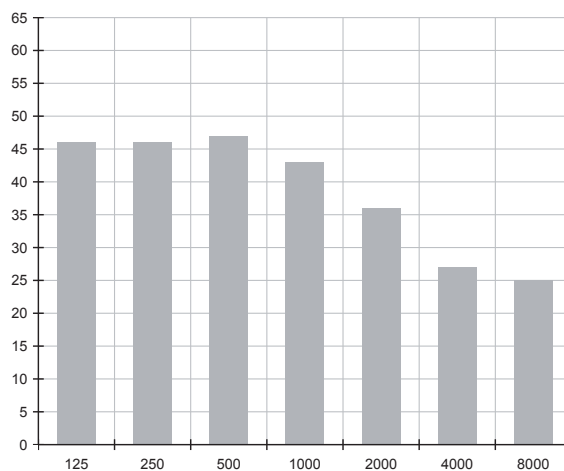
2)AM015HNTDEH/EU



3)AM022FNQDEH/EU



4)AM022FNTDEH/EU



6 Sound power level

Neo Forte

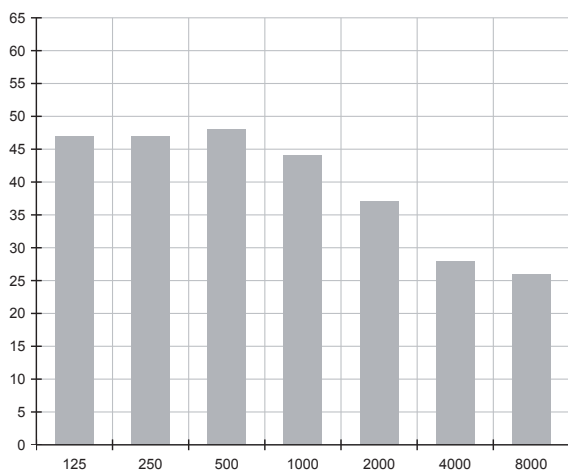
Note

- dBA = A-Weighted sound power level.
- Reference power : 1pW
- Measured according to ISO 3741.

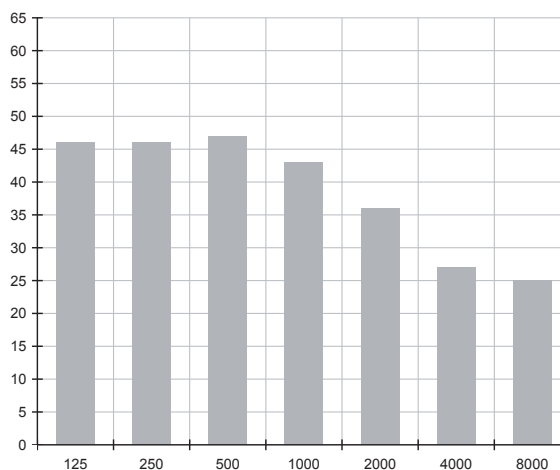
Unit: dB(A)

Model	Power
AM028FNQDEH/EU	49.0
AM028FNTDEH/EU	48.0
AM036FNQDEH/EU	54.0
AM036FNTDEH/EU	53.0

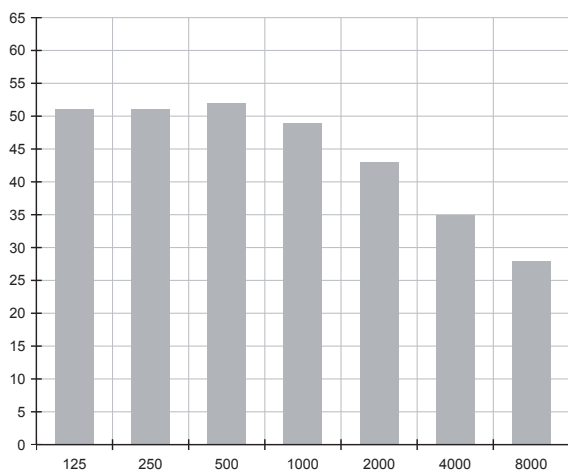
1)AM028FNQDEH/EU



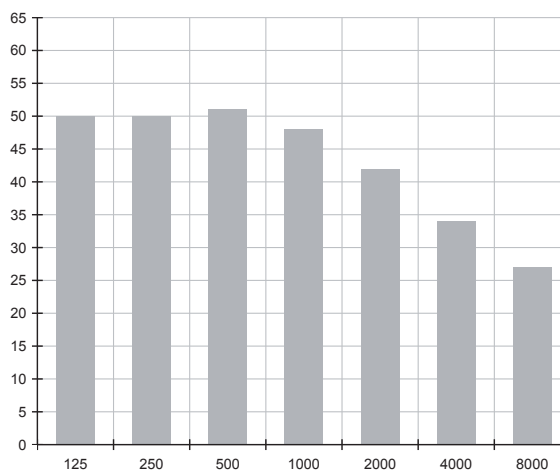
2)AM028FNTDEH/EU



3)AM036FNQDEH/EU



4)AM036FNTDEH/EU



6 Sound power level

Neo Forte

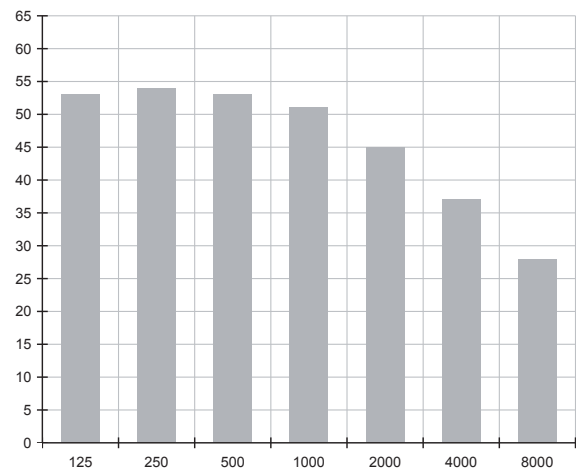
Note

- dBA = A-Weighted sound power level.
- Reference power : 1pW
- Measured according to ISO 3741.

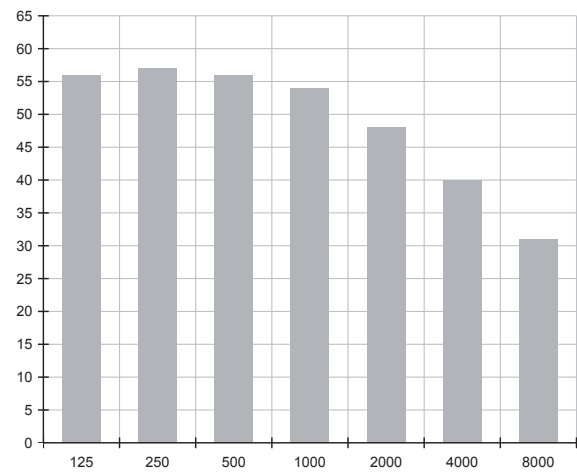
Unit: dB(A)

Model	Power
AM045FNQDEH/EU	55.0
AM056FNQDEH/EU	58.0
AM056FNTDEH/EU	57.0
AM071FNQDEH/EU	60.0

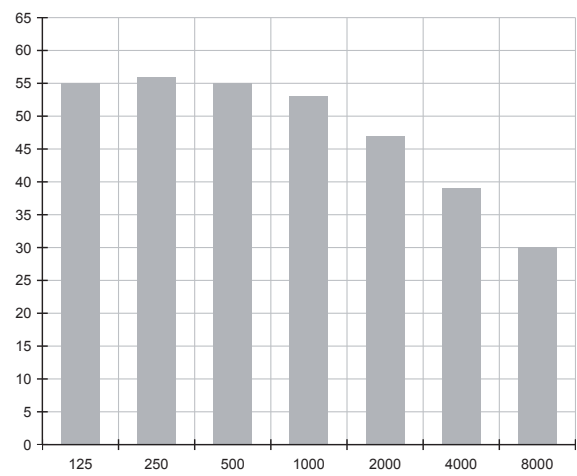
1)AM045FNQDEH/EU



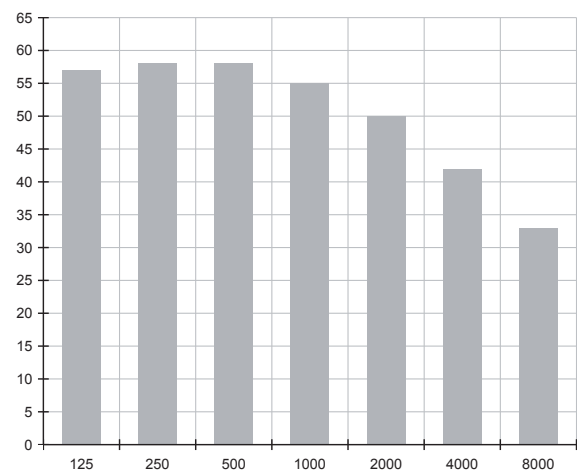
2)AM056FNQDEH/EU



3)AM056FNTDEH/EU



4)AM071FNQDEH/EU



6 Sound power level

Neo Forte

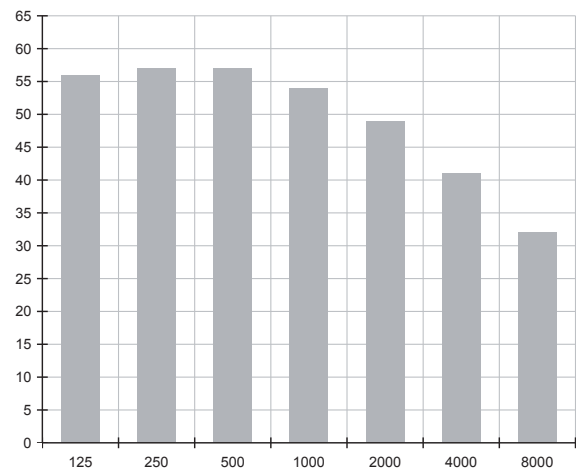
Note

- dBA = A-Weighted sound power level.
- Reference power : 1pW
- Measured according to ISO 3741.

Unit: dB(A)

Model	Power
AM071FNTDEH/EU	59.0

1)AM071FNTDEH/EU



A3050

1 Specifications

2 Capacity table

3 Dimensional drawing

4 Electrical wiring diagram

5 Sound pressure level

6 Sound power level

7 Temperature and air flow distribution

1 Specifications

A3050

Type				AR5000	AR5000	AR5000
Model				AM015JNVDKH/EU	AM022JNVDKH/EU	AM028JNVDKH/EU
Power Supply			Ø, #, V, Hz	1,2,220-240,50/60	1,2,220-240,50/60	1,2,220-240,50/60
Mode			-	HP/HR	HP/HR	HP/HR
Performance	Capacity (Nominal)	Cooling	kW	1.50	2.20	2.80
			Btu/h	5,100	7,500	9,600
		Heating	kW	1.70	2.50	3.20
			Btu/h	5,800	8,500	10,900
Power	Power Input (Nominal)	Cooling	W	14.00	15.00	16.00
		Heating		16.00	18.00	24.00
	Current Input (Nominal)	Cooling	A	0.12	0.13	0.13
		Heating		0.13	0.15	0.19
Fan	Motor	Type	-	Crossflow Fan	Crossflow Fan	Crossflow Fan
		Output x n	w	27 x 1	27 x 1	27 x 1
	Air Flow Rate	H/M/L (UL)	CMM	4.40 / 4.20 / 3.80	5.40 / 4.70 / 4.00	5.70 / 5.00 / 4.30
			l/s	73.33 / 70.00 / 63.33	90.00 / 78.33 / 66.67	95.00 / 83.33 / 71.67
	External Pressure	Min/Std/Max	mmAq	-	-	-
			Pa	-	-	-
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	ID18 HOSE	ID18 HOSE	ID18 HOSE
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)	28.0 / 25.0 / 24.0	33.0 / 29.0 / 25.0	36.0 / 31.0 / 25.0
	Power	Cooling		44.0	50.0	53.0
Dimension	Net Weight		kg	7.90	7.90	8.00
	Shipping Weight		kg	9.30	9.30	9.40
	Net Dimensions (WxHxD)		mm	750 x 249 x 246	750 x 249 x 246	750 x 249 x 246
	Shipping Dimensions (WxHxD)		mm	800 x 298 x 302	800 x 298 x 302	800 x 298 x 302
Panel Size	Panel model		-	-	-	-
	Panel Net Weight		kg	-	-	-
	Shipping Weight		kg	-	-	-
	Net Dimensions (WxHxD)		mm	-	-	-
	Shipping Dimensions (WxHxD)		mm	-	-	-
Accessories	Drain Pump	Drain Pump	- / Model	-	-	-
		Max. lifting Height / Displacement	mm/liter/h	-	-	-
	Virus Doctor		-	INCLUDED	INCLUDED	INCLUDED

* 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 have a global warming potential (GWP) greater than 150.

1 Specifications

A3050

Type				AR5000		AR5000		AR5000		
Model				AM036JNVDKH/EU		AM045JNVDKH/EU		AM056JNVDKH/EU		
Power Supply			Ø, #, V, Hz		1,2,220-240,50/60		1,2,220-240,50/60		1,2,220-240,50/60	
Mode			-		HP/HR		HP/HR		HP/HR	
Performance	Capacity (Nominal)	Cooling	kW		3.60		4.50		5.60	
			Btu/h		12,300		15,400		19,100	
		Heating	kW		4.00		5.00		6.30	
			Btu/h		13,600		17,100		21,500	
Power	Power Input (Nominal)	Cooling	W	20.00		31.00		27.00		
		Heating		28.00		41.00		37.00		
	Current Input (Nominal)	Cooling	A	0.15		0.24		0.21		
		Heating		0.20		0.31		0.29		
Fan	Motor	Type	-	Crossflow Fan		Crossflow Fan		Crossflow Fan		
		Output x n	w	27 x 1		27 x 1		27 x 1		
	Air Flow Rate	H/M/L (UL)	CMM	7.10 / 5.70 / 4.60		8.90 / 7.50 / 6.00		11.80 / 10.00 / 8.20		
			l/s	118.33 / 95.00 / 76.67		148.33 / 125.00 / 100.00		196.67 / 166.67 / 136.67		
	External Pressure	Min/Std/Max	mmAq	-		-		-		
			Pa	-		-		-		
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	ID18 HOSE		ID18 HOSE		ID18 HOSE		
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)	37.0 / 34.0 / 30.0		41.0 / 38.0 / 34.0		39.0 / 36.0 / 33.0		
	Power	Cooling		54.0		57.0		57.0		
Dimension	Net Weight		kg	9.60		9.60		14.50		
	Shipping Weight		kg	11.20		11.20		17.70		
	Net Dimensions (WxHxD)		mm	826 x 261 x 261		826 x 261 x 261		1,065 x 301 x 294		
	Shipping Dimensions (WxHxD)		mm	886 x 317 x 335		886 x 317 x 335		1,123 x 354 x 384		
Panel Size	Panel model		-	-		-		-		
	Panel Net Weight		kg	-		-		-		
	Shipping Weight		kg	-		-		-		
	Net Dimensions (WxHxD)		mm	-		-		-		
	Shipping Dimensions (WxHxD)		mm	-		-		-		
Accessories	Drain Pump	Drain Pump	- / Model	-		-		-		
		Max. lifting Height / Displacement	mm/liter/h	-		-		-		
	Virus Doctor		-	INCLUDED		INCLUDED		INCLUDED		

* 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 have a global warming potential (GWP) greater than 150.

1 Specifications

A3050

Type				AR5000		AR5000		
Model				AM071JNVDKH/EU		AM082JNVDKH/EU		
Power Supply			Ø, #, V, Hz		1,2,220-240,50/60		1,2,220-240,50/60	
Mode			-		HP/HR		HP/HR	
Performance	Capacity (Nominal)	Cooling	kW		7.10		8.20	
			Btu/h		24,200		28,000	
		Heating	kW		8.00		8.50	
			Btu/h		27,300		29,000	
Power	Power Input (Nominal)	Cooling	W	41.00		55.00		
		Heating		53.00		72.00		
	Current Input (Nominal)	Cooling	A	0.31		0.42		
		Heating		0.41		0.55		
Fan	Motor	Type	-		Crossflow Fan		Crossflow Fan	
		Output x n	w		27 x 1		27 x 1	
	Air Flow Rate	H/M/L (UL)	CMM	14.80 / 12.40 / 10.00		16.70 / 14.30 / 12.40		
			l/s	246.67 / 206.67 / 166.67		278.33 / 238.33 / 206.67		
	External Pressure	Min/Std/Max	mmAq	-		-		
			Pa	-		-		
Piping Connections	Liquid Pipe		Ø, mm	9.52		9.52		
			Ø, inch	3/8"		3/8"		
	Gas Pipe		Ø, mm	15.88		15.88		
			Ø, inch	5/8"		5/8"		
	Drain Pipe		Ø, mm	ID18 HOSE		ID18 HOSE		
Field Wiring	Power Source Wire		mm²	1.5 - 2.5		1.5 - 2.5		
	Transmission Cable		mm²	0.75 - 1.50		0.75 - 1.50		
Refrigerant	Type		-		R410A		R410A	
	Control Method		-		EEV INCLUDED		EEV INCLUDED	
Sound	Pressure	High / Mid / Low	dB(A)	44.0 / 41.0 / 36.0		47.0 / 43.0 / 40.0		
	Power	Cooling		61.0		65.0		
Dimension	Net Weight		kg	14.50		14.50		
	Shipping Weight		kg	17.70		17.70		
	Net Dimensions (WxHxD)		mm	1,065 x 301 x 294		1,065 x 301 x 294		
	Shipping Dimensions (WxHxD)		mm	1,123 x 354 x 384		1,123 x 354 x 384		
Panel Size	Panel model		-		-		-	
	Panel Net Weight		kg		-		-	
	Shipping Weight		kg		-		-	
	Net Dimensions (WxHxD)		mm		-		-	
	Shipping Dimensions (WxHxD)		mm		-		-	
Accessories	Drain Pump	Drain Pump	- / Model	-		-		
		Max. lifting Height / Displacement	mm/liter/h	-		-		
	Virus Doctor		-		INCLUDED		INCLUDED	

* 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 have a global warming potential (GWP) greater than 150.

1 Specifications

A3050

Type				AR5000	AR5000	AR5000
Model				AM015JNADKH/EU	AM022JNADKH/EU	AM028JNADKH/EU
Power Supply			Ø, #, V, Hz	1,2,220-240,50/60	1,2,220-240,50/60	1,2,220-240,50/60
Mode			-	HP/HR	HP/HR	HP/HR
Performance	Capacity (Nominal)	Cooling	kW	1.50	2.20	2.80
			Btu/h	5,100	7,500	9,600
		Heating	kW	1.70	2.50	3.20
			Btu/h	5,800	8,500	10,900
Power	Power Input (Nominal)	Cooling	W	14.00	15.00	16.00
		Heating		16.00	18.00	24.00
	Current Input (Nominal)	Cooling	A	0.12	0.13	0.13
		Heating		0.13	0.15	0.19
Fan	Motor	Type	-	Crossflow Fan	Crossflow Fan	Crossflow Fan
		Output x n	w	27 x 1	27 x 1	27 x 1
	Air Flow Rate	H/M/L (UL)	CMM	4.40 / 4.20 / 3.80	5.40 / 4.70 / 4.00	5.70 / 5.00 / 4.30
			l/s	73.33 / 70.00 / 63.33	90.00 / 78.33 / 66.67	95.00 / 83.33 / 71.67
	External Pressure	Min/Std/Max	mmAq	-	-	-
			Pa	-	-	-
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	ID18 HOSE	ID18 HOSE	ID18 HOSE
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 NOT INCLUDED	EEV NOT INCLUDED	EEV NOT INCLUDED
Sound	Pressure	High / Mid / Low	dB(A)	26.0 / 24.0 / 21.0	33.0 / 28.0 / 23.0	35.0 / 30.0 / 25.0
	Power	Cooling		44.0	50.0	53.0
Dimension	Net Weight		kg	7.70	7.70	7.80
	Shipping Weight		kg	9.10	9.10	9.20
	Net Dimensions (WxHxD)		mm	750 x 249 x 246	750 x 249 x 246	750 x 249 x 246
	Shipping Dimensions (WxHxD)		mm	800 x 298 x 302	800 x 298 x 302	800 x 298 x 302
Panel Size	Panel model		-	-	-	-
	Panel Net Weight		kg	-	-	-
	Shipping Weight		kg	-	-	-
	Net Dimensions (WxHxD)		mm	-	-	-
	Shipping Dimensions (WxHxD)		mm	-	-	-
Accessories	Drain Pump	Drain Pump	- / Model	-	-	-
		Max. lifting Height / Displacement	mm/liter/h	-	-	-
	Virus Doctor		-	INCLUDED	INCLUDED	INCLUDED

* 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 have a global warming potential (GWP) greater than 150.

1 Specifications

A3050

Type				AR5000		AR5000		AR5000		
Model				AM036JNADKH/EU		AM045JNADKH/EU		AM056JNADKH/EU		
Power Supply			Ø, #, V, Hz	1,2,220-240,50/60		1,2,220-240,50/60		1,2,220-240,50/60		
Mode				-	HP/HR		HP/HR		HP/HR	
Performance	Capacity (Nominal)	Cooling	kW	3.60		4.50		5.60		
			Btu/h	12,300		15,400		19,100		
		Heating	kW	4.00		5.00		6.30		
			Btu/h	13,600		17,100		21,500		
Power	Power Input (Nominal)	Cooling	W	20.00		31.00		27.00		
		Heating		28.00		41.00		37.00		
	Current Input (Nominal)	Cooling	A	0.15		0.24		0.21		
		Heating		0.20		0.31		0.29		
Fan	Motor	Type	-	Crossflow Fan		Crossflow Fan		Crossflow Fan		
		Output x n	w	27 x 1		27 x 1		27 x 1		
	Air Flow Rate	H/M/L (UL)	CMM	7.10 / 5.70 / 4.60		8.90 / 7.50 / 6.00		11.80 / 10.00 / 8.20		
			l/s	118.33 / 95.00 / 76.67		148.33 / 125.00 / 100.00		196.67 / 166.67 / 136.67		
	External Pressure	Min/Std/Max	mmAq	-		-		-		
			Pa	-		-		-		
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	ID18 HOSE		ID18 HOSE		ID18 HOSE		
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 NOT INCLUDED		EEV NOT INCLUDED		EEV NOT INCLUDED		
Sound	Pressure	High / Mid / Low	dB(A)	36.0 / 32.0 / 29.0		40.0 / 37.0 / 33.0		39.0 / 35.0 / 32.0		
	Power	Cooling		54.0		57.0		57.0		
Dimension	Net Weight		kg	9.40		9.40		14.20		
	Shipping Weight		kg	11.00		11.00		17.50		
	Net Dimensions (WxHxD)		mm	826 x 261 x 261		826 x 261 x 261		1,065 x 301 x 294		
	Shipping Dimensions (WxHxD)		mm	886 x 317 x 335		886 x 317 x 335		1,123 x 354 x 384		
Panel Size	Panel model		-	-		-		-		
	Panel Net Weight		kg	-		-		-		
	Shipping Weight		kg	-		-		-		
	Net Dimensions (WxHxD)		mm	-		-		-		
	Shipping Dimensions (WxHxD)		mm	-		-		-		
Accessories	Drain Pump	Drain Pump	- / Model	-		-		-		
		Max. lifting Height / Displacement	mm/liter/h	-		-		-		
	Virus Doctor		-	INCLUDED		INCLUDED		INCLUDED		

* 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 have a global warming potential (GWP) greater than 150.

1 Specifications

A3050

Type				AR5000		AR5000		
Model				AM071JNADKH/EU		AM082JNADKH/EU		
Power Supply			Ø, #, V, Hz		1,2,220-240,50/60		1,2,220-240,50/60	
Mode			-		HP/HR		HP/HR	
Performance	Capacity (Nominal)	Cooling	kW		7.10		8.20	
			Btu/h		24,200		28,000	
		Heating	kW		8.00		8.50	
			Btu/h		27,300		29,000	
Power	Power Input (Nominal)	Cooling	W	41.00		55.00		
		Heating		53.00		72.00		
	Current Input (Nominal)	Cooling	A	0.31		0.42		
		Heating		0.41		0.55		
Fan	Motor	Type	-		Crossflow Fan		Crossflow Fan	
		Output x n	w		27 x 1		27 x 1	
	Air Flow Rate	H/M/L (UL)	CMM	14.80 / 12.40 / 10.00		16.70 / 14.30 / 12.40		
			l/s	246.67 / 206.67 / 166.67		278.33 / 238.33 / 206.67		
	External Pressure	Min/Std/Max	mmAq	-		-		
			Pa	-		-		
Piping Connections	Liquid Pipe		Ø, mm	9.52		9.52		
			Ø, inch	3/8"		3/8"		
	Gas Pipe		Ø, mm	15.88		15.88		
			Ø, inch	5/8"		5/8"		
	Drain Pipe		Ø, mm	ID18 HOSE		ID18 HOSE		
Field Wiring	Power Source Wire		mm²	1.5 - 2.5		1.5 - 2.5		
	Transmission Cable		mm²	0.75 - 1.50		0.75 - 1.50		
Refrigerant	Type		-		R410A		R410A	
	Control Method		-		EEV NOT INCLUDED		EEV NOT INCLUDED	
Sound	Pressure	High / Mid / Low	dB(A)	44.0 / 40.0 / 36.0		47.0 / 42.0 / 40.0		
	Power	Cooling		61.0		65.0		
Dimension	Net Weight		kg	14.20		14.20		
	Shipping Weight		kg	17.50		17.50		
	Net Dimensions (WxHxD)		mm	1,065 x 301 x 294		1,065 x 301 x 294		
	Shipping Dimensions (WxHxD)		mm	1,123 x 354 x 384		1,123 x 354 x 384		
Panel Size	Panel model		-		-		-	
	Panel Net Weight		kg		-		-	
	Shipping Weight		kg		-		-	
	Net Dimensions (WxHxD)		mm		-		-	
	Shipping Dimensions (WxHxD)		mm		-		-	
Accessories	Drain Pump	Drain Pump	- / Model	-		-		
		Max. lifting Height / Displacement	mm/liter/h	-		-		
	Virus Doctor		-		INCLUDED		INCLUDED	

* 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 have a global warming potential (GWP) greater than 150.

2) Capacity table

A3050

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity

Model	Outdoor temperature (°C, DB)	Indoor temperature (°C, WB)													
		14.0		16.0		18.0		19.0		20.0		22.0		24.0	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
1.50	10	1.00	0.90	1.20	1.00	1.40	1.00	1.50	1.00	1.60	1.00	1.70	1.10	1.80	1.00
	12	1.00	0.90	1.20	1.00	1.40	1.00	1.50	1.00	1.60	1.00	1.70	1.10	1.80	1.00
	14	1.00	0.90	1.20	1.00	1.40	1.00	1.50	1.00	1.60	1.00	1.70	1.10	1.80	1.00
	16	1.00	0.90	1.20	1.00	1.40	1.00	1.50	1.00	1.60	1.00	1.60	1.00	1.80	1.00
	18	1.00	0.90	1.20	1.00	1.40	1.00	1.50	1.00	1.60	1.00	1.60	1.00	1.80	1.00
	20	1.00	0.90	1.20	1.00	1.40	1.00	1.50	1.00	1.60	1.00	1.60	1.00	1.80	1.00
	21	1.00	0.90	1.20	1.00	1.40	1.00	1.50	1.00	1.60	1.00	1.60	1.00	1.80	1.00
	23	1.00	0.90	1.20	1.00	1.40	1.00	1.50	1.00	1.60	1.00	1.60	1.00	1.80	1.00
	25	1.00	0.90	1.20	1.00	1.40	1.00	1.50	1.00	1.60	1.00	1.60	1.00	1.80	1.00
	27	1.00	0.90	1.20	1.00	1.40	1.00	1.50	1.00	1.60	1.00	1.60	1.00	1.80	1.00
	29	1.00	0.90	1.20	1.00	1.40	1.00	1.50	1.00	1.60	1.00	1.60	1.00	1.80	1.00
	31	1.00	0.90	1.20	1.00	1.40	1.00	1.50	1.00	1.60	1.00	1.60	1.00	1.80	1.00
	33	1.00	0.90	1.20	1.00	1.40	1.00	1.50	1.00	1.60	1.00	1.60	1.00	1.80	1.00
	35	1.00	0.90	1.20	1.00	1.40	1.00	1.50	1.00	1.60	1.00	1.60	1.00	1.80	1.00
	37	1.00	0.90	1.20	1.00	1.40	1.00	1.50	1.00	1.60	1.00	1.60	1.00	1.80	1.00
	39	1.00	0.90	1.20	1.00	1.40	1.00	1.50	1.00	1.60	1.00	1.60	1.00	1.70	0.90
2.20	10	1.50	1.30	1.80	1.50	2.10	1.50	2.20	1.50	2.30	1.50	2.50	1.60	2.60	1.40
	12	1.50	1.30	1.80	1.50	2.10	1.50	2.20	1.50	2.30	1.50	2.50	1.60	2.60	1.40
	14	1.50	1.30	1.80	1.50	2.10	1.50	2.20	1.50	2.30	1.50	2.50	1.60	2.60	1.40
	16	1.50	1.30	1.80	1.50	2.10	1.50	2.20	1.50	2.30	1.50	2.40	1.50	2.60	1.40
	18	1.50	1.30	1.80	1.50	2.10	1.50	2.20	1.50	2.30	1.50	2.40	1.50	2.60	1.40
	20	1.50	1.30	1.80	1.50	2.10	1.50	2.20	1.50	2.30	1.50	2.40	1.50	2.60	1.40
	21	1.50	1.30	1.80	1.50	2.10	1.50	2.20	1.50	2.30	1.50	2.40	1.50	2.60	1.40
	23	1.50	1.30	1.80	1.50	2.10	1.50	2.20	1.50	2.30	1.50	2.40	1.50	2.60	1.40
	25	1.50	1.30	1.80	1.50	2.10	1.50	2.20	1.50	2.30	1.50	2.40	1.50	2.60	1.40
	27	1.50	1.30	1.80	1.50	2.10	1.50	2.20	1.50	2.30	1.50	2.40	1.50	2.60	1.40
	29	1.50	1.30	1.80	1.50	2.10	1.50	2.20	1.50	2.30	1.50	2.40	1.50	2.60	1.40
	31	1.50	1.30	1.80	1.50	2.10	1.50	2.20	1.50	2.30	1.50	2.40	1.50	2.60	1.40
	33	1.50	1.30	1.80	1.50	2.10	1.50	2.20	1.50	2.30	1.50	2.40	1.50	2.60	1.40
	35	1.50	1.30	1.80	1.50	2.10	1.50	2.20	1.50	2.30	1.50	2.40	1.50	2.60	1.40
	37	1.50	1.30	1.80	1.50	2.10	1.50	2.20	1.50	2.30	1.50	2.40	1.50	2.60	1.40
	39	1.50	1.30	1.80	1.50	2.10	1.50	2.20	1.50	2.30	1.50	2.40	1.50	2.50	1.30
2.80	10	1.90	1.60	2.30	1.80	2.60	2.00	2.80	1.90	2.90	1.90	3.10	1.90	3.40	1.90
	12	1.90	1.60	2.30	1.80	2.60	2.00	2.80	1.90	2.90	1.90	3.10	1.90	3.30	1.80
	14	1.90	1.60	2.30	1.80	2.60	2.00	2.80	1.90	2.90	1.90	3.10	1.90	3.30	1.80
	16	1.90	1.60	2.30	1.80	2.60	2.00	2.80	1.90	2.90	1.90	3.10	1.90	3.30	1.80
	18	1.90	1.60	2.30	1.80	2.60	2.00	2.80	1.90	2.90	1.90	3.10	1.90	3.30	1.80
	20	1.90	1.60	2.30	1.80	2.60	2.00	2.80	1.90	2.90	1.90	3.10	1.90	3.30	1.80
	21	1.90	1.60	2.30	1.80	2.60	2.00	2.80	1.90	2.90	1.90	3.10	1.90	3.30	1.80
	23	1.90	1.60	2.30	1.80	2.60	2.00	2.80	1.90	2.90	1.90	3.10	1.90	3.30	1.80
	25	1.90	1.60	2.30	1.80	2.60	2.00	2.80	1.90	2.90	1.90	3.10	1.90	3.30	1.80
	27	1.90	1.60	2.30	1.80	2.60	2.00	2.80	1.90	2.90	1.90	3.10	1.90	3.30	1.80
	29	1.90	1.60	2.30	1.80	2.60	2.00	2.80	1.90	2.90	1.90	3.10	1.90	3.30	1.80
	31	1.90	1.60	2.30	1.80	2.60	2.00	2.80	1.90	2.90	1.90	3.10	1.90	3.30	1.80
	33	1.90	1.60	2.30	1.80	2.60	2.00	2.80	1.90	2.90	1.90	3.10	1.90	3.30	1.80
	35	1.90	1.60	2.30	1.80	2.60	2.00	2.80	1.90	2.90	1.90	3.10	1.90	3.30	1.80
	37	1.90	1.60	2.30	1.80	2.60	2.00	2.80	1.90	2.90	1.90	3.10	1.90	3.30	1.80
	39	1.90	1.60	2.30	1.80	2.60	2.00	2.80	1.90	2.90	1.90	3.00	1.80	3.20	1.70
3.60	10	2.50	2.10	2.90	2.20	3.40	2.30	3.60	2.40	3.70	2.40	4.00	2.40	4.30	2.30
	12	2.50	2.10	2.90	2.20	3.40	2.30	3.60	2.40	3.70	2.40	4.00	2.40	4.30	2.30
	14	2.50	2.10	2.90	2.20	3.40	2.30	3.60	2.40	3.70	2.40	4.00	2.40	4.30	2.30
	16	2.50	2.10	2.90	2.20	3.40	2.30	3.60	2.40	3.70	2.40	4.00	2.40	4.30	2.30
	18	2.50	2.10	2.90	2.20	3.40	2.30	3.60	2.40	3.70	2.40	4.00	2.40	4.30	2.30
	20	2.50	2.10	2.90	2.20	3.40	2.30	3.60	2.40	3.70	2.40	4.00	2.40	4.20	2.30
	21	2.50	2.10	2.90	2.20	3.40	2.30	3.60	2.40	3.70	2.40	4.00	2.40	4.20	2.30
	23	2.50	2.10	2.90	2.20	3.40	2.30	3.60	2.40	3.70	2.40	4.00	2.40	4.20	2.30
	25	2.50	2.10	2.90	2.20	3.40	2.30	3.60	2.40	3.70	2.40	4.00	2.40	4.20	2.30
	27	2.50	2.10	2.90	2.20	3.40	2.30	3.60	2.40	3.70	2.40	4.00	2.40	4.20	2.30
	29	2.50	2.10	2.90	2.20	3.40	2.30	3.60	2.40	3.70	2.40	4.00	2.40	4.20	2.30
	31	2.50	2.10	2.90	2.20	3.40	2.30	3.60	2.40	3.70	2.40	4.00	2.40	4.20	2.30
	33	2.50	2.10	2.90	2.20	3.40	2.30	3.60	2.40	3.70	2.40	4.00	2.40	4.20	2.30
	35	2.50	2.10	2.90	2.20	3.40	2.30	3.60	2.40	3.70	2.40	4.00	2.40	4.20	2.30
	37	2.50	2.10	2.90	2.20	3.40	2.30	3.60	2.40	3.70	2.40	3.90	2.30	4.20	2.30
	39	2.50	2.10	2.90	2.20	3.40	2.30	3.60	2.40	3.70	2.40	3.90	2.30	4.10	2.20
4.50	10	3.10	2.40	3.70	2.70	4.30	2.90	4.50	3.00	4.70	3.00	5.10	3.10	5.40	2.80
	12	3.10	2.40	3.70	2.70	4.30	2.90	4.50	3.00	4.70	3.00	5.10	3.10	5.40	2.80
	14	3.10	2.40	3.70	2.70	4.30	2.90	4.50	3.00	4.70	3.00	5.00	3.00	5.40	2.80
	16	3.10	2.40	3.70	2.70	4.30	2.90	4.50	3.00	4.70	3.00	5.00	3.00	5.30	2.80
	18	3.10	2.40	3.70	2.70	4.30	2.90	4.50	3.00	4.70	3.00	5.00	3.00	5.30	2.80
	20	3.10	2.40	3.70	2.70	4.30	2.90	4.50	3.00	4.70	3.00	5.00	3.00	5.30	2.80
	21	3.10	2.40	3.70	2.70	4.30	2.90	4.50	3.00	4.70	3.00	5.00	3.00	5.30	2.80
	23	3.10	2.40	3.70	2.70	4.30	2.90	4.50	3.00	4.70	3.00	5.00	3.00	5.30	2.80
	25	3.10	2.40	3.70	2.70	4.30	2.90	4.50	3.00	4.70	3.00	5.00	3.00	5.30	2.80
	27	3.10	2.40	3.70	2.70	4.30	2.90	4.50	3.00	4.70	3.00	5.00	3.00	5.30	2.80
	29	3.10	2.40	3.70	2.70	4.30	2.90	4.50	3.00	4.70	3.00	5.00	3.00	5.30	2.80
	31	3.10	2.40	3.70	2.70	4.30	2.90	4.50	3.00	4.70	3.00	5.00	3.00	5.30	2.80
	33	3.10	2.40	3.70	2.70	4.30	2.90	4.50	3.00	4.70	3.00	5.00	3.00	5.30	2.80
	35	3.10	2.40	3.70	2.70	4.30	2.90	4.50	3.00	4.70	3.00	5.00	3.00	5.30	2.80
	37	3.10	2.40	3.70	2.70	4.30	2.90	4.50	3.00	4.70	3.00	4.90	2.90	5.20	2.70
	39	3.10	2.40	3.70	2.70	4.30	2.90	4.50	3.00	4.70	3.00	4.90	2.90	5.10	2.60
5.60	10	3.90	3.00	4.60	3.40	5.30	3.70	5.60	3.80	5.80	3.80	6.30	3.90	6.70	3.60
	12	3.90	3.00	4.60	3.40	5.30	3.70	5.60	3.80	5.80	3.80	6.30	3.90	6.70	3.60
	14	3.90	3.00	4.60	3.40	5.30	3.70	5.60	3.80	5.80	3.80	6.20	3.80	6.70	3.60
	16	3.90	3.00	4.60	3.40	5.30	3.70	5.60	3.80	5.80	3.80	6.20	3.80	6.60	3.50
	18	3.90	3.00	4.60	3.40	5.30	3.70	5.60	3.80	5.80	3.80	6.20	3.80	6.60	3.50
	20	3.90	3.00	4.60	3.40	5.30	3.70	5.60	3.80	5.80	3.80	6.20	3.80	6.60	3.50
	21	3.90	3.00	4.60	3.40	5.30	3.70	5.60	3.80	5.80	3.80	6.20	3.80	6.60	3.50
	23	3.90	3.00	4.60	3.40	5.30	3.7								

2 Capacity table

A3050

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity

Model	Outdoor temperature (°C, DB)	Indoor temperature (°C, WB)													
		14.0		16.0		18.0		19.0		20.0		22.0		24.0	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
5.60	29	3.90	3.00	4.60	3.40	5.30	3.70	5.60	3.80	5.80	3.80	6.20	3.80	6.60	3.50
	31	3.90	3.00	4.60	3.40	5.30	3.70	5.60	3.80	5.80	3.80	6.20	3.80	6.60	3.50
	33	3.90	3.00	4.60	3.40	5.30	3.70	5.60	3.80	5.80	3.80	6.20	3.80	6.60	3.50
	35	3.90	3.00	4.60	3.40	5.30	3.70	5.60	3.80	5.80	3.80	6.20	3.80	6.60	3.50
	37	3.90	3.00	4.60	3.40	5.30	3.70	5.60	3.80	5.80	3.80	6.10	3.70	6.50	3.40
	39	3.90	3.00	4.60	3.40	5.30	3.70	5.60	3.80	5.80	3.80	6.10	3.70	6.40	3.30
7.10	10	4.90	3.80	5.80	4.30	6.70	4.70	7.10	4.80	7.40	4.80	8.00	4.90	8.50	4.60
	12	4.90	3.80	5.80	4.30	6.70	4.70	7.10	4.80	7.40	4.80	8.00	4.90	8.50	4.60
	14	4.90	3.80	5.80	4.30	6.70	4.70	7.10	4.80	7.40	4.80	7.90	4.80	8.50	4.60
	16	4.90	3.80	5.80	4.30	6.70	4.70	7.10	4.80	7.40	4.80	7.90	4.80	8.40	4.40
	18	4.90	3.80	5.80	4.30	6.70	4.70	7.10	4.80	7.40	4.80	7.90	4.80	8.40	4.40
	20	4.90	3.80	5.80	4.30	6.70	4.70	7.10	4.80	7.40	4.80	7.90	4.80	8.40	4.40
	21	4.90	3.80	5.80	4.30	6.70	4.70	7.10	4.80	7.40	4.80	7.90	4.80	8.40	4.40
	23	4.90	3.80	5.80	4.30	6.70	4.70	7.10	4.80	7.40	4.80	7.90	4.80	8.40	4.40
	25	4.90	3.80	5.80	4.30	6.70	4.70	7.10	4.80	7.40	4.80	7.90	4.80	8.40	4.40
	27	4.90	3.80	5.80	4.30	6.70	4.70	7.10	4.80	7.40	4.80	7.90	4.80	8.40	4.40
	29	4.90	3.80	5.80	4.30	6.70	4.70	7.10	4.80	7.40	4.80	7.90	4.80	8.40	4.40
	31	4.90	3.80	5.80	4.30	6.70	4.70	7.10	4.80	7.40	4.80	7.90	4.80	8.40	4.40
	33	4.90	3.80	5.80	4.30	6.70	4.70	7.10	4.80	7.40	4.80	7.90	4.80	8.40	4.40
	35	4.90	3.80	5.80	4.30	6.70	4.70	7.10	4.80	7.40	4.80	7.90	4.80	8.40	4.40
	37	4.90	3.80	5.80	4.30	6.70	4.70	7.10	4.80	7.40	4.80	7.70	4.70	8.20	4.30
	39	4.90	3.80	5.80	4.30	6.70	4.70	7.10	4.80	7.40	4.80	7.70	4.70	8.10	4.20
8.20	10	5.70	4.40	6.70	5.00	7.80	5.40	8.20	5.60	8.50	5.60	9.20	5.70	9.80	5.30
	12	5.70	4.40	6.70	5.00	7.80	5.40	8.20	5.60	8.50	5.60	9.20	5.70	9.80	5.30
	14	5.70	4.40	6.70	5.00	7.80	5.40	8.20	5.60	8.50	5.60	9.10	5.60	9.80	5.30
	16	5.70	4.40	6.70	5.00	7.80	5.40	8.20	5.60	8.50	5.60	9.10	5.60	9.70	5.10
	18	5.70	4.40	6.70	5.00	7.80	5.40	8.20	5.60	8.50	5.60	9.10	5.60	9.70	5.10
	20	5.70	4.40	6.70	5.00	7.80	5.40	8.20	5.60	8.50	5.60	9.10	5.60	9.70	5.10
	21	5.70	4.40	6.70	5.00	7.80	5.40	8.20	5.60	8.50	5.60	9.10	5.60	9.70	5.10
	23	5.70	4.40	6.70	5.00	7.80	5.40	8.20	5.60	8.50	5.60	9.10	5.60	9.70	5.10
	25	5.70	4.40	6.70	5.00	7.80	5.40	8.20	5.60	8.50	5.60	9.10	5.60	9.70	5.10
	27	5.70	4.40	6.70	5.00	7.80	5.40	8.20	5.60	8.50	5.60	9.10	5.60	9.70	5.10
	29	5.70	4.40	6.70	5.00	7.80	5.40	8.20	5.60	8.50	5.60	9.10	5.60	9.70	5.10
	31	5.70	4.40	6.70	5.00	7.80	5.40	8.20	5.60	8.50	5.60	9.10	5.60	9.70	5.10
	33	5.70	4.40	6.70	5.00	7.80	5.40	8.20	5.60	8.50	5.60	9.10	5.60	9.70	5.10
	35	5.70	4.40	6.70	5.00	7.80	5.40	8.20	5.60	8.50	5.60	9.10	5.60	9.70	5.10
	37	5.70	4.40	6.70	5.00	7.80	5.40	8.20	5.60	8.50	5.60	8.90	5.40	9.50	5.00
	39	5.70	4.40	6.70	5.00	7.80	5.40	8.20	5.60	8.50	5.60	8.90	5.40	9.40	4.80

2 Capacity table

A3050

Heating

TC : Total Capacity

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
1.50	-20	-21	1.00	1.00	1.00	1.00	1.00
	-17	-18	1.10	1.10	1.10	1.10	1.10
	-15	-16	1.20	1.10	1.10	1.10	1.10
	-12	-13	1.20	1.20	1.20	1.20	1.20
	-10	-11	1.40	1.40	1.30	1.30	1.30
	-7	-8	1.60	1.50	1.50	1.40	1.40
	-5	-6	1.60	1.60	1.60	1.50	1.50
	-3	-4	1.70	1.70	1.60	1.60	1.50
	0	-1	1.80	1.70	1.70	1.60	1.50
	3	2	1.80	1.80	1.70	1.60	1.50
	5	4	1.90	1.80	1.70	1.60	1.50
	7	6	1.90	1.80	1.70	1.60	1.50
	9	8	2.00	1.80	1.70	1.60	1.50
	11	10	2.00	1.80	1.70	1.60	1.50
	13	12	2.00	1.80	1.70	1.60	1.50
2.20	-20	-21	1.50	1.50	1.50	1.50	1.50
	-17	-18	1.60	1.60	1.60	1.60	1.60
	-15	-16	1.70	1.60	1.60	1.60	1.60
	-12	-13	1.80	1.80	1.80	1.80	1.70
	-10	-11	2.00	2.00	1.90	1.90	1.90
	-7	-8	2.30	2.30	2.20	2.00	2.00
	-5	-6	2.40	2.30	2.30	2.20	2.20
	-3	-4	2.50	2.50	2.40	2.30	2.20
	0	-1	2.60	2.50	2.50	2.30	2.20
	3	2	2.70	2.60	2.50	2.30	2.20
	5	4	2.80	2.70	2.50	2.30	2.20
	7	6	2.80	2.70	2.50	2.30	2.20
	9	8	3.00	2.70	2.50	2.30	2.20
	11	10	3.00	2.70	2.50	2.30	2.20
	13	12	3.00	2.70	2.50	2.30	2.20
2.80	-20	-21	1.90	1.90	1.90	1.90	1.90
	-17	-18	2.00	2.00	2.00	2.00	1.90
	-15	-16	2.10	2.10	2.00	2.00	1.90
	-12	-13	2.20	2.20	2.20	2.10	2.10
	-10	-11	2.30	2.30	2.30	2.30	2.20
	-7	-8	2.50	2.40	2.40	2.40	2.30
	-5	-6	2.60	2.60	2.50	2.50	2.40
	-3	-4	2.80	2.70	2.70	2.60	2.50
	0	-1	2.90	2.80	2.80	2.70	2.60
	3	2	3.00	3.00	2.90	2.80	2.70
	5	4	3.20	3.10	3.10	2.90	2.70
	7	6	3.30	3.20	3.20	3.00	2.70
	9	8	3.40	3.30	3.20	3.00	2.70
	11	10	3.50	3.30	3.20	3.00	2.70
	13	12	3.60	3.40	3.20	3.00	2.70
3.60	-20	-21	2.40	2.40	2.30	2.30	2.30
	-17	-18	2.60	2.50	2.40	2.40	2.30
	-15	-16	2.70	2.60	2.50	2.50	2.40
	-12	-13	2.80	2.70	2.70	2.60	2.60
	-10	-11	2.90	2.90	2.90	2.80	2.80
	-7	-8	3.10	3.10	3.00	3.00	2.90
	-5	-6	3.30	3.20	3.20	3.10	3.00
	-3	-4	3.40	3.40	3.30	3.20	3.10
	0	-1	3.60	3.60	3.50	3.40	3.20
	3	2	3.80	3.70	3.70	3.50	3.40
	5	4	3.90	3.90	3.80	3.60	3.40
	7	6	4.10	4.10	4.00	3.70	3.40
	9	8	4.20	4.10	4.00	3.70	3.40
	11	10	4.40	4.20	4.00	3.70	3.40
	13	12	4.50	4.20	4.00	3.70	3.40
4.50	-20	-21	3.10	3.00	3.00	2.90	2.90
	-17	-18	3.20	3.20	3.10	3.00	3.00
	-15	-16	3.30	3.30	3.20	3.10	3.00
	-12	-13	3.50	3.40	3.30	3.30	3.30
	-10	-11	3.70	3.70	3.60	3.50	3.50
	-7	-8	3.90	3.80	3.80	3.70	3.60
	-5	-6	4.10	4.00	4.00	3.90	3.70
	-3	-4	4.30	4.20	4.20	4.00	3.90
	0	-1	4.50	4.40	4.40	4.20	4.00
	3	2	4.70	4.70	4.60	4.40	4.20
	5	4	4.90	4.80	4.80	4.50	4.20
	7	6	5.20	5.10	5.00	4.60	4.20
	9	8	5.30	5.20	5.00	4.60	4.20
	11	10	5.50	5.20	5.00	4.60	4.20
	13	12	5.60	5.30	5.00	4.60	4.20
5.60	-20	-21	3.90	3.80	3.80	3.70	3.70
	-17	-18	4.00	4.00	3.90	3.80	3.80
	-15	-16	4.20	4.10	4.00	3.90	3.80
	-12	-13	4.40	4.30	4.20	4.20	4.10
	-10	-11	4.60	4.60	4.50	4.40	4.40
	-7	-8	4.90	4.80	4.80	4.70	4.50
	-5	-6	5.20	5.10	5.00	4.90	4.70
	-3	-4	5.40	5.30	5.30	5.10	4.90
	0	-1	5.70	5.60	5.50	5.30	5.00
	3	2	5.90	5.90	5.80	5.60	5.30

2 Capacity table

A3050

Heating

TC : Total Capacity

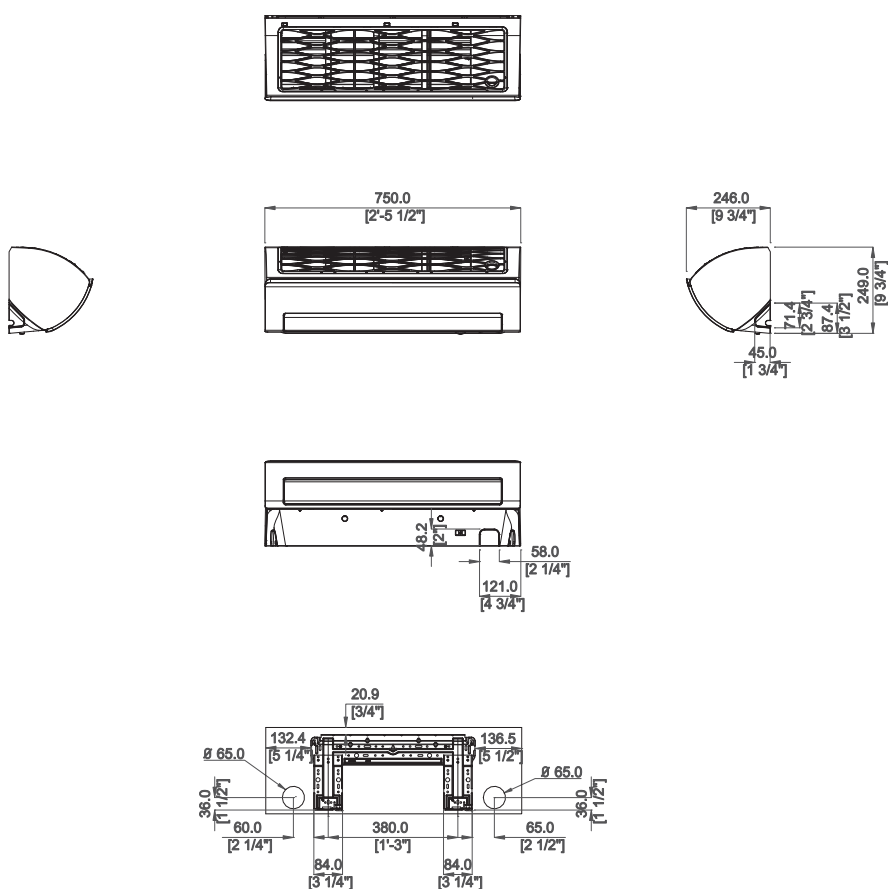
Model	Outdoor temperature (°C)		Indoor temperature (°C, DB)				
			16.0	18.0	20.0	22.0	24.0
	DB	WB	TC	TC	TC	TC	TC
5.60	5	4	6.20	6.10	6.00	5.70	5.30
	7	6	6.50	6.40	6.30	5.80	5.30
	9	8	6.70	6.50	6.30	5.80	5.30
	11	10	6.90	6.60	6.30	5.80	5.30
	13	12	7.10	6.70	6.30	5.80	5.30
	15	14	7.30	6.80	6.30	5.80	5.30
7.10	-20	-21	5.00	4.80	4.80	4.70	4.70
	-17	-18	5.10	5.10	5.00	4.80	4.80
	-15	-16	5.30	5.20	5.10	5.00	4.80
	-12	-13	5.60	5.50	5.30	5.30	5.20
	-10	-11	5.80	5.80	5.70	5.60	5.60
	-7	-8	6.20	6.10	6.10	6.00	5.70
	-5	-6	6.60	6.50	6.30	6.20	6.00
	-3	-4	6.90	6.70	6.70	6.50	6.20
	0	-1	7.20	7.10	7.00	6.70	6.30
	3	2	7.50	7.50	7.40	7.10	6.70
	5	4	7.90	7.70	7.60	7.20	6.70
	7	6	8.30	8.10	8.00	7.40	6.70
	9	8	8.50	8.30	8.00	7.40	6.70
	11	10	8.80	8.40	8.00	7.40	6.70
	13	12	9.00	8.50	8.00	7.40	6.70
	15	14	9.30	8.60	8.00	7.40	6.70
	-20	-21	5.30	5.10	5.10	5.00	5.00
	-17	-18	5.40	5.40	5.30	5.10	5.10
	-15	-16	5.70	5.50	5.40	5.30	5.10
	-12	-13	5.90	5.80	5.70	5.70	5.50
	-10	-11	6.20	6.20	6.10	5.90	5.90
	-7	-8	6.60	6.50	6.50	6.30	6.10
	-5	-6	7.00	6.90	6.70	6.60	6.30
	-3	-4	7.30	7.20	7.20	6.90	6.60
	0	-1	7.70	7.60	7.40	7.20	6.70
	3	2	8.00	8.00	7.80	7.60	7.20
	5	4	8.40	8.20	8.10	7.70	7.20
	7	6	8.80	8.60	8.50	7.80	7.20
	9	8	9.00	8.80	8.50	7.80	7.20
	11	10	9.30	8.90	8.50	7.80	7.20
	13	12	9.60	9.00	8.50	7.80	7.20
	15	14	9.80	9.20	8.50	7.80	7.20
8.20	-20	-21	5.30	5.10	5.10	5.00	5.00
	-17	-18	5.40	5.40	5.30	5.10	5.10
	-15	-16	5.70	5.50	5.40	5.30	5.10
	-12	-13	5.90	5.80	5.70	5.70	5.50
	-10	-11	6.20	6.20	6.10	5.90	5.90
	-7	-8	6.60	6.50	6.50	6.30	6.10
	-5	-6	7.00	6.90	6.70	6.60	6.30
	-3	-4	7.30	7.20	7.20	6.90	6.60
	0	-1	7.70	7.60	7.40	7.20	6.70
	3	2	8.00	8.00	7.80	7.60	7.20
	5	4	8.40	8.20	8.10	7.70	7.20
	7	6	8.80	8.60	8.50	7.80	7.20
	9	8	9.00	8.80	8.50	7.80	7.20
	11	10	9.30	8.90	8.50	7.80	7.20
	13	12	9.60	9.00	8.50	7.80	7.20
	15	14	9.80	9.20	8.50	7.80	7.20

3 Dimensional drawing

A3050

AM015/022/028JN*DKH***

Units : mm / inches



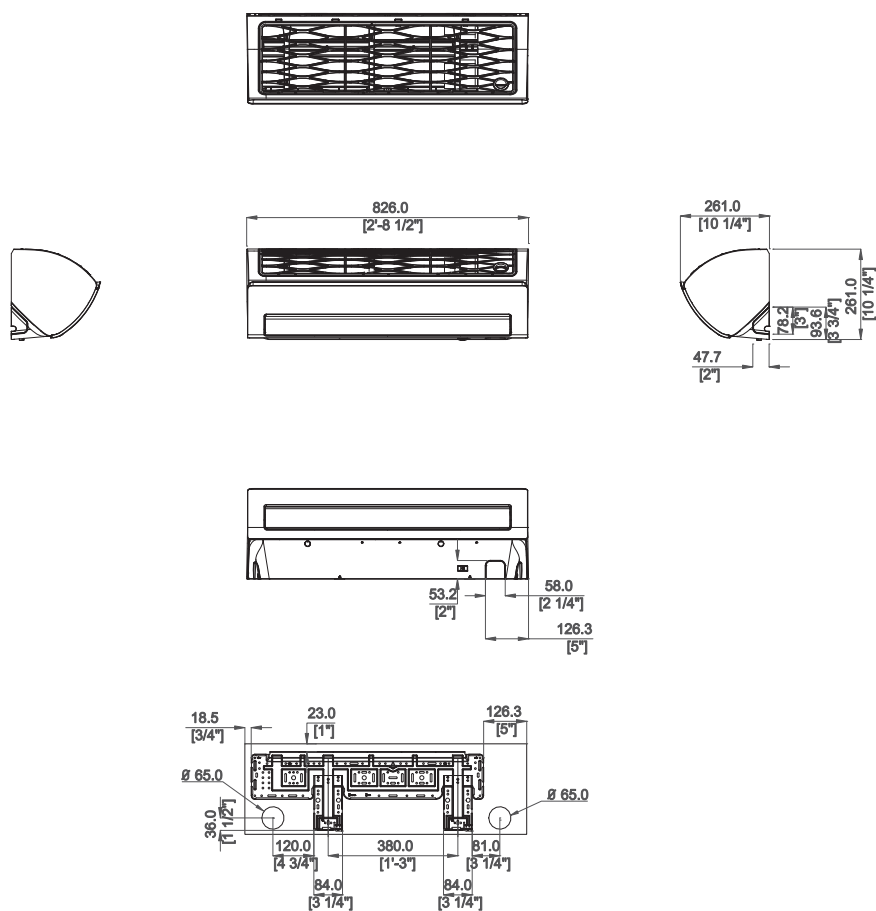
No.	Name	Description		
		1.5kW	2.2kW	2.8kW
1	Refrigerant gas pipe	Ø12.7 Flare		
2	Refrigerant liquid pipe	Ø6.35 Flare		
3	Drain pipe connection	ID 18 Hose		

3 Dimensional drawing

A3050

AM036/045JN*DKH***

Units : mm / inches



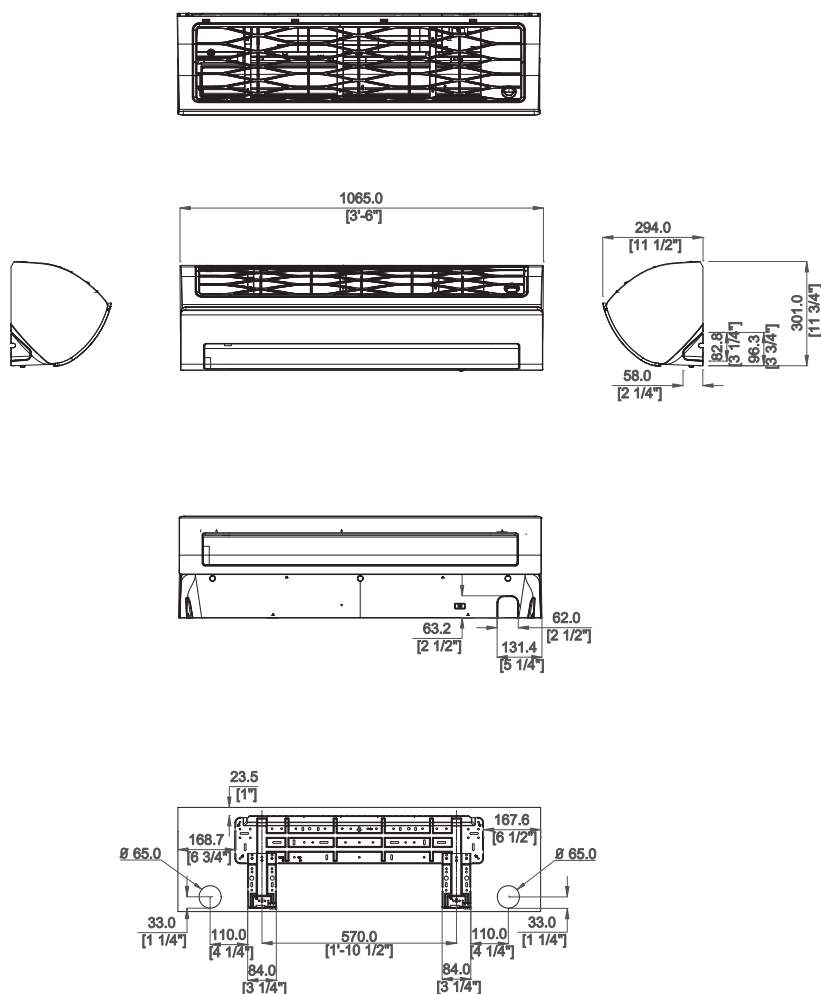
No.	Name	Description	
		3.6kW	4.5kW
1	Refrigerant gas pipe	Ø12.7 Flare	
2	Refrigerant liquid pipe	Ø6.35 Flare	
3	Drain pipe connection	ID 18 Hose	

3 Dimensional drawing

A3050

AM056/071/082JN*DKH***

Units : mm / inches

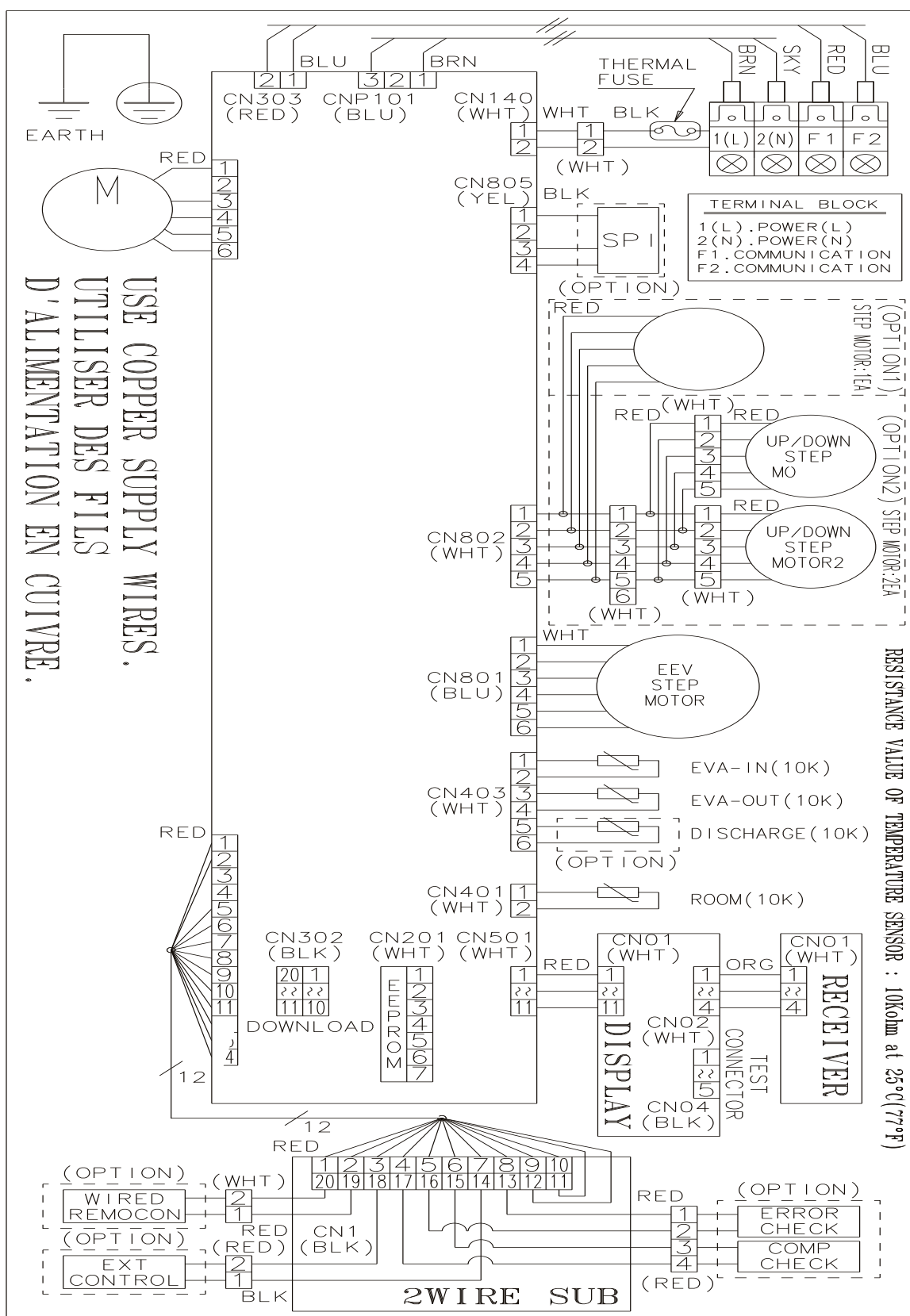


No.	Name	Description		
		5.6kW	7.1kW	8.2kW
1	Refrigerant gas pipe	Ø12.7 Flare	Ø15.88 Flare	
2	Refrigerant liquid pipe	Ø6.35 Flare	Ø9.52 Flare	
3	Drain pipe connection	ID 18 Hose		

4 Electrical wiring diagram

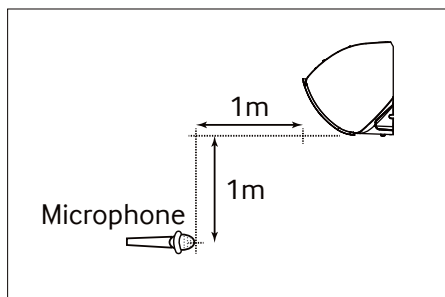
A3050

AM***JN*DKH***



5 Sound pressure level

A3050



Unit: dB(A)

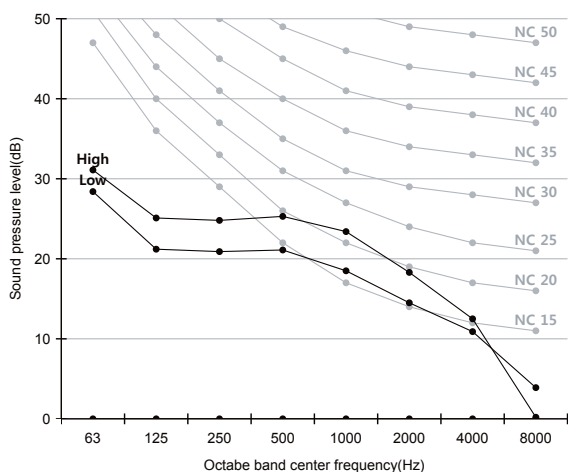
Model	High	Low
AM015JNVDKH/EU	28.0	24.0
AM022JNVDKH/EU	33.0	25.0
AM028JNVDKH/EU	36.0	25.0
AM036JNVDKH/EU	37.0	30.0

Note

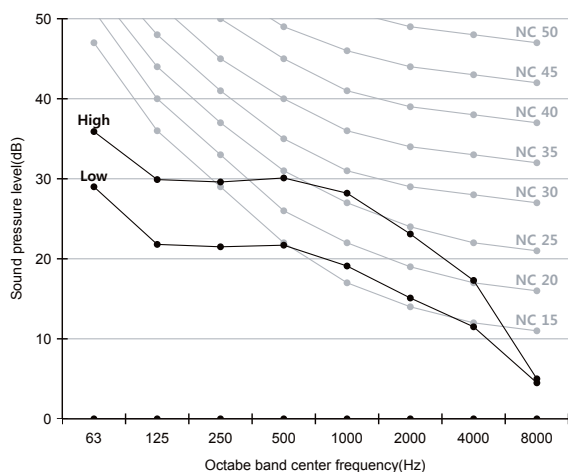
- These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a factors such as the construction of the particular room where the equipment is installed.
- Operation sound level may differ depending on operation and ambient conditions.

NC curve

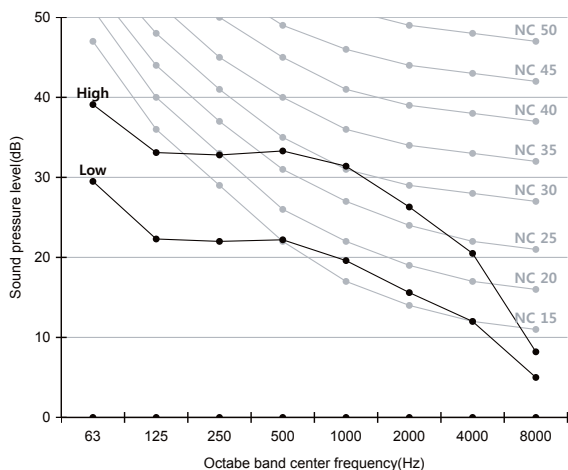
1) AM015JNVDKH/EU



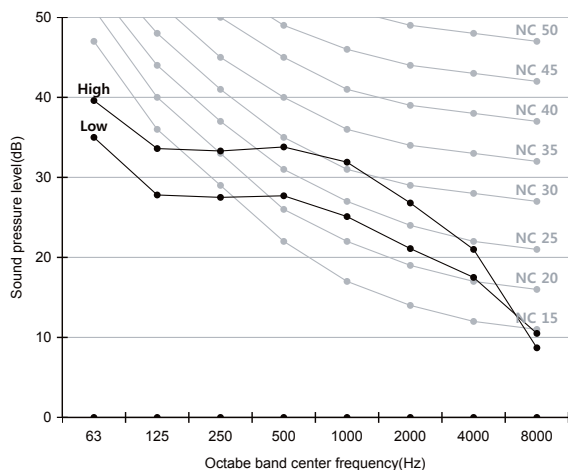
2) AM022JNVDKH/EU



3) AM028JNVDKH/EU

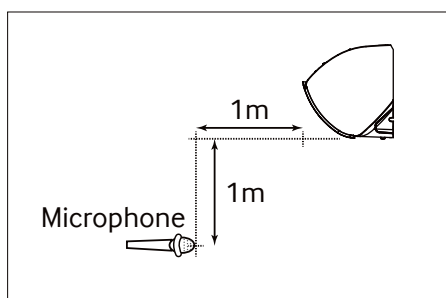


4) AM036JNVDKH/EU



5 Sound pressure level

A3050



Unit: dB(A)

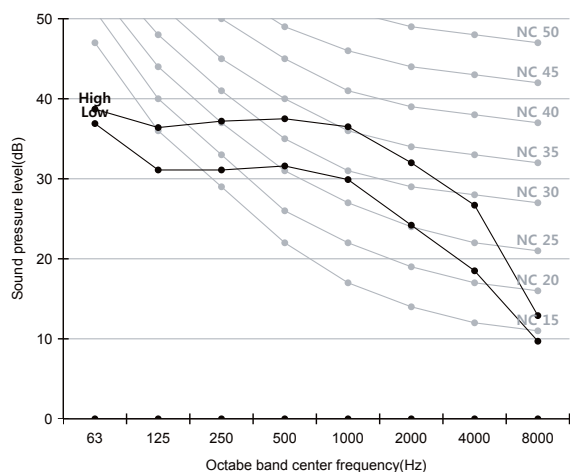
Model	High	Low
AM045JNVDKH/EU	41.0	34.0
AM056JNVDKH/EU	39.0	33.0
AM071JNVDKH/EU	44.0	36.0
AM082JNVDKH/EU	47.0	40.0

Note

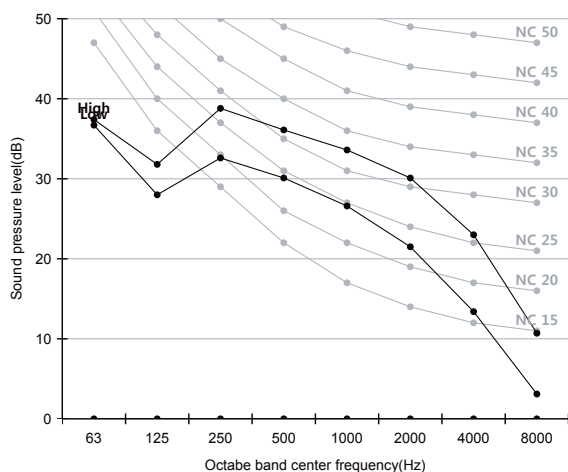
- These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a factors such as the construction of the particular room where the equipment is installed.
- Operation sound level may differ depending on operation and ambient conditions.

NC curve

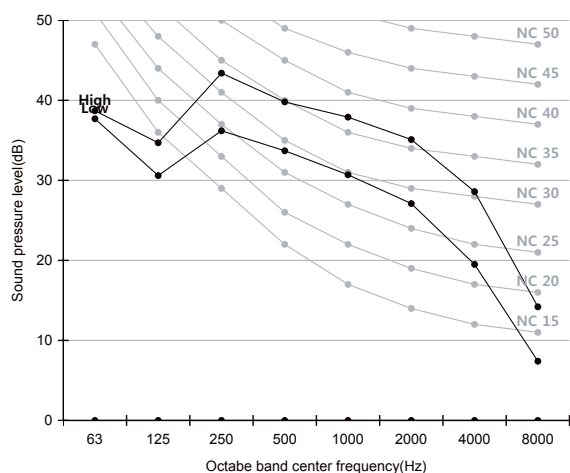
1) AM045JNVDKH/EU



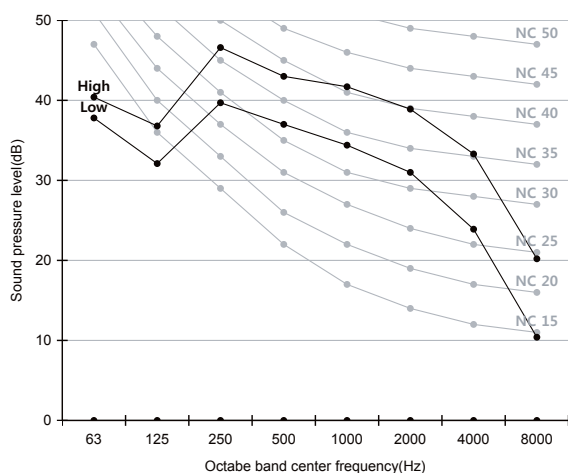
2) AM056JNVDKH/EU



3) AM071JNVDKH/EU

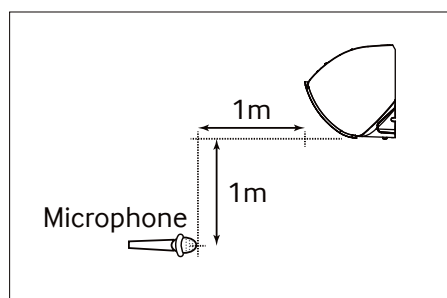


4) AM082JNVDKH/EU



5 Sound pressure level

A3050



Unit: dB(A)

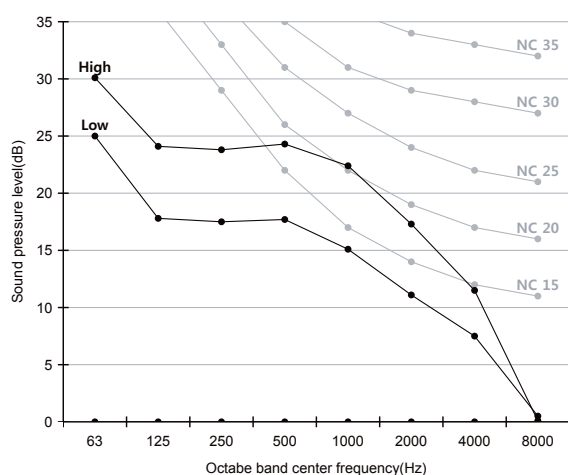
Model	High	Low
AM015JNADKH/EU	26.0	21.0
AM022JNADKH/EU	33.0	23.0
AM028JNADKH/EU	35.0	25.0
AM036JNADKH/EU	36.0	29.0

Note

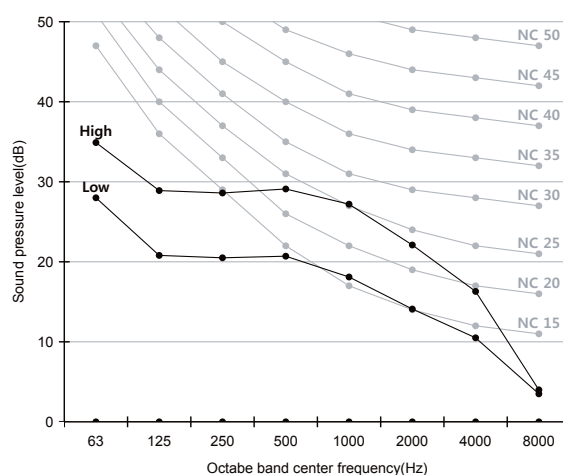
- These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a factors such as the construction of the particular room where the equipment is installed.
- Operation sound level may differ depending on operation and ambient conditions.

NC curve

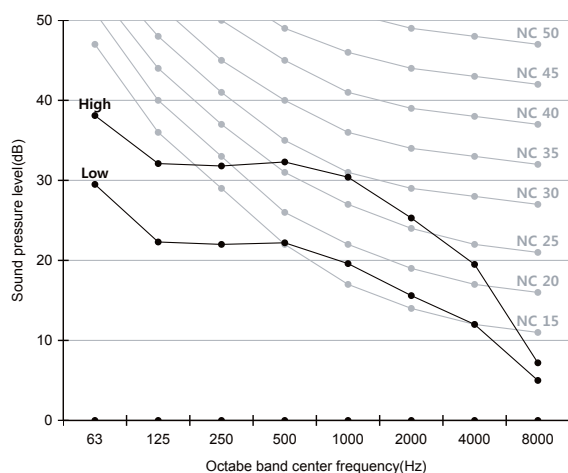
1) AM015JNADKH/EU



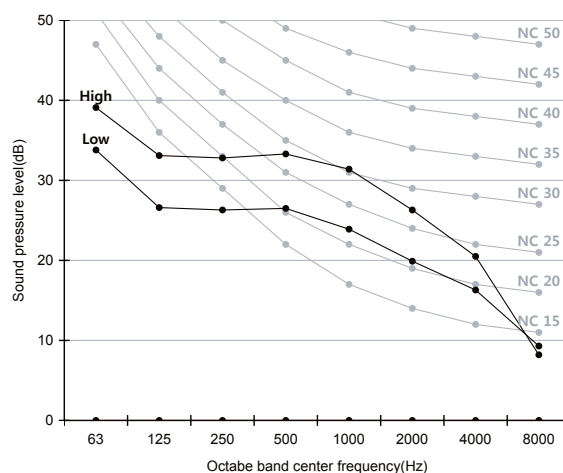
2) AM022JNADKH/EU



3) AM028JNADKH/EU

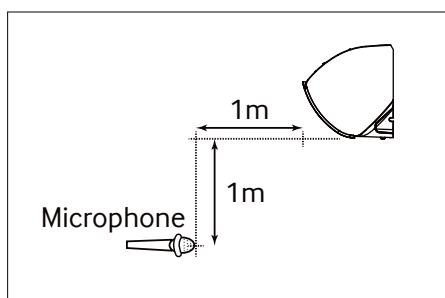


4) AM036JNADKH/EU



5 Sound pressure level

A3050



Unit: dB(A)

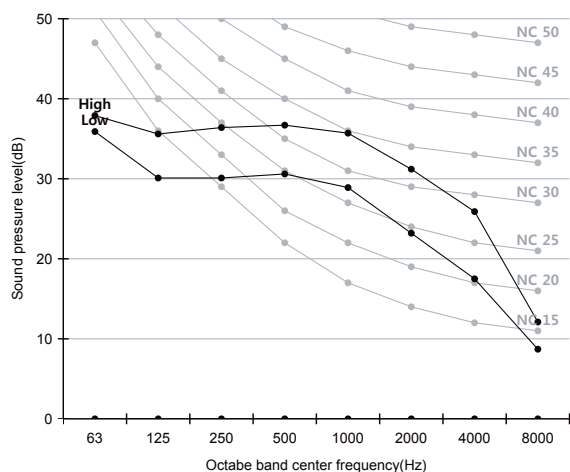
Model	High	Low
AM045JNADKH/EU	40.0	33.0
AM056JNADKH/EU	39.0	32.0
AM071JNADKH/EU	44.0	36.0
AM082JNADKH/EU	47.0	40.0

Note

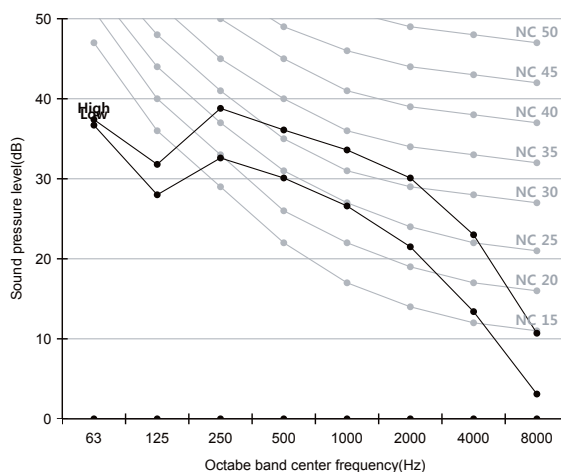
- These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a factors such as the construction of the particular room where the equipment is installed.
- Operation sound level may differ depending on operation and ambient conditions.

NC curve

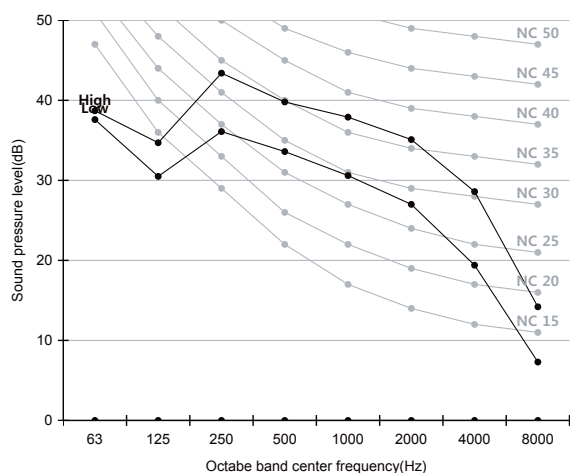
1) AM045JNADKH/EU



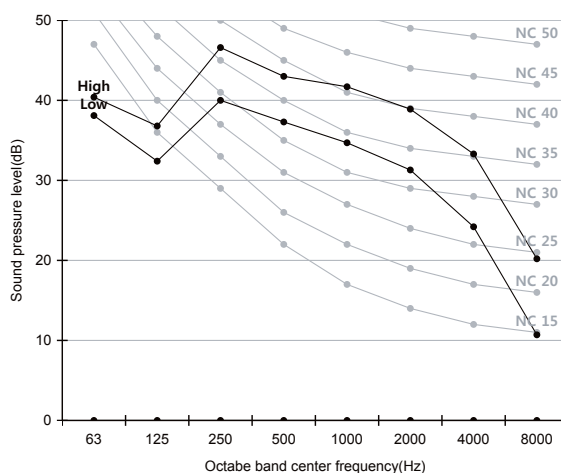
2) AM056JNADKH/EU



3) AM071JNADKH/EU



4) AM082JNADKH/EU



6 Sound power level

A3050

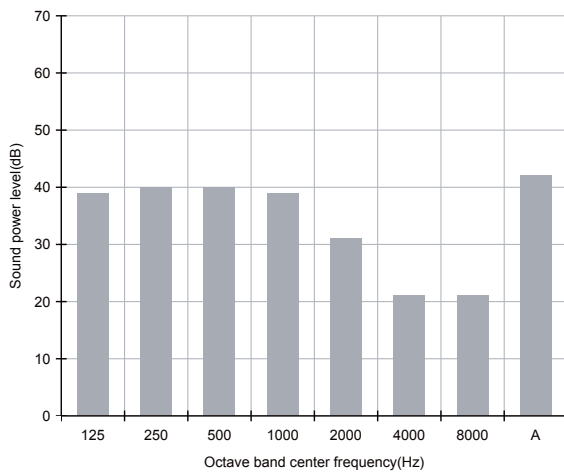
Note

- dBA = A-Weighted sound power level.
- Reference power : 1pW
- Measured according to ISO 3741.

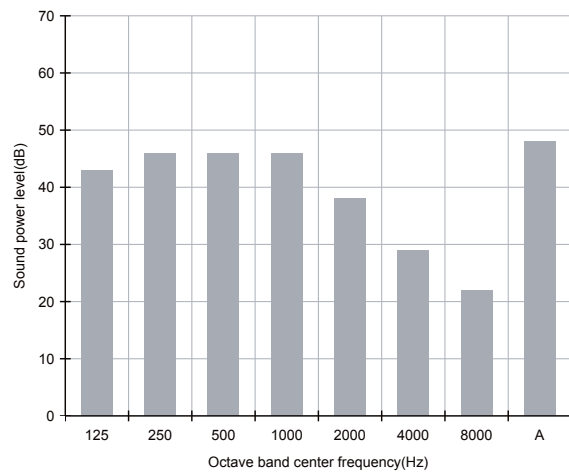
Unit: dB(A)

Model	Power
AM015JN*DKH/EU	44.0
AM022JN*DKH/EU	50.0
AM028JN*DKH/EU	53.0
AM036JN*DKH/EU	54.0

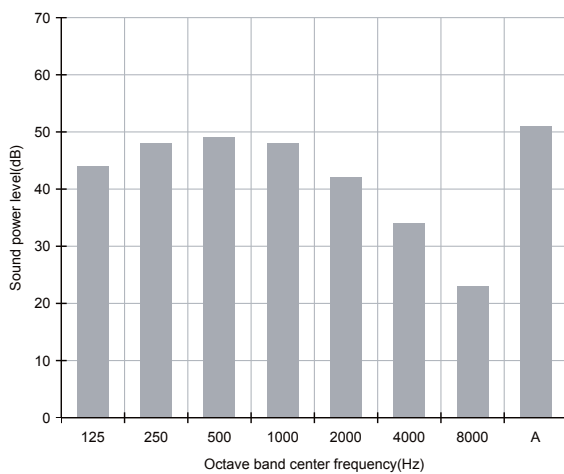
1)AM015JN*DKH/EU



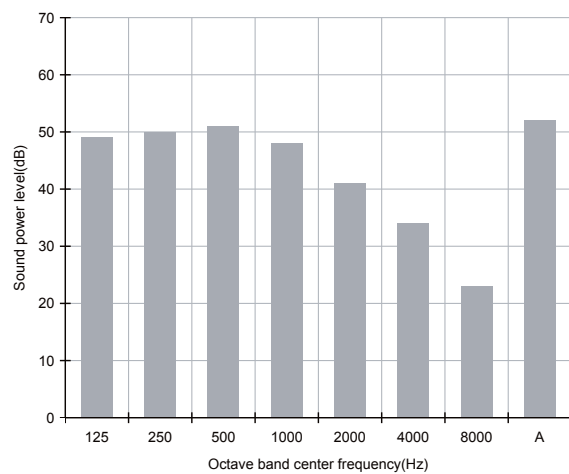
2)AM022JN*DKH/EU



3)AM028JN*DKH/EU



4)AM036JN*DKH/EU



6 Sound power level

A3050

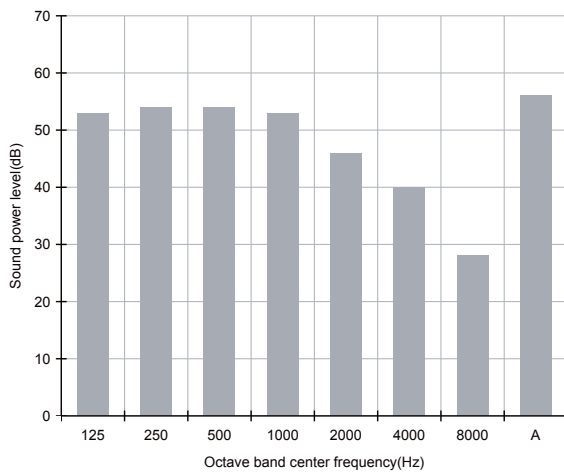
Note

- dBA = A-Weighted sound power level.
- Reference power : 1pW
- Measured according to ISO 3741.

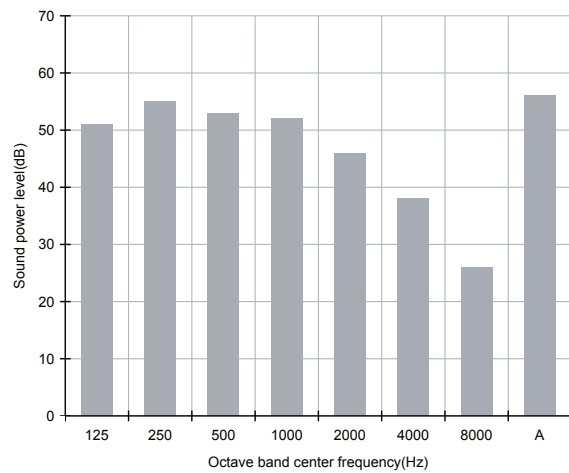
Unit: dB(A)

Model	Power
AM045JN*DKH/EU	57.0
AM056JN*DKH/EU	57.0
AM071JN*DKH/EU	61.0
AM082JN*DKH/EU	65.0

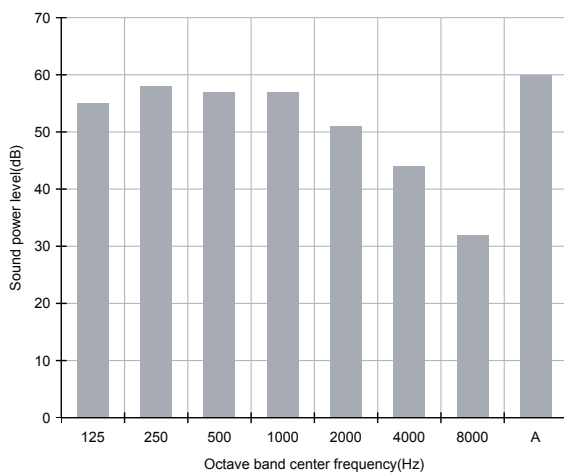
1)AM045JN*DKH/EU



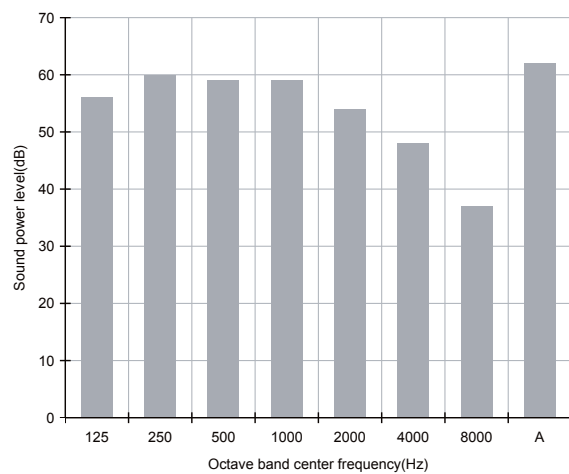
2)AM056JN*DKH/EU



3)AM071JN*DKH/EU



4)AM082JN*DKH/EU



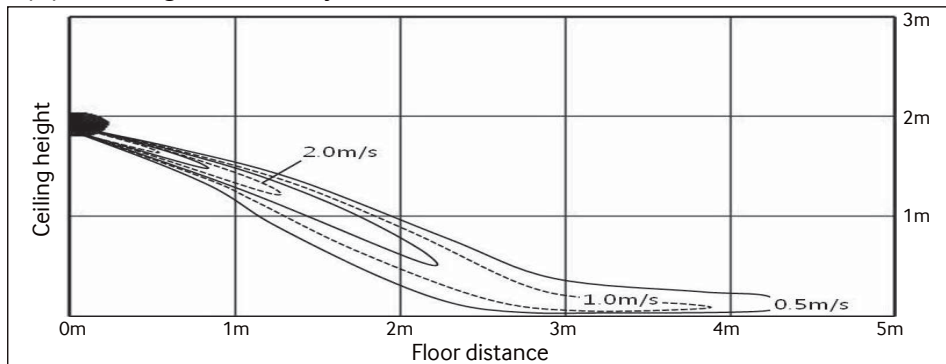
7 Temperature and air flow distribution

A3050

AM015/022/028JN*DKH***

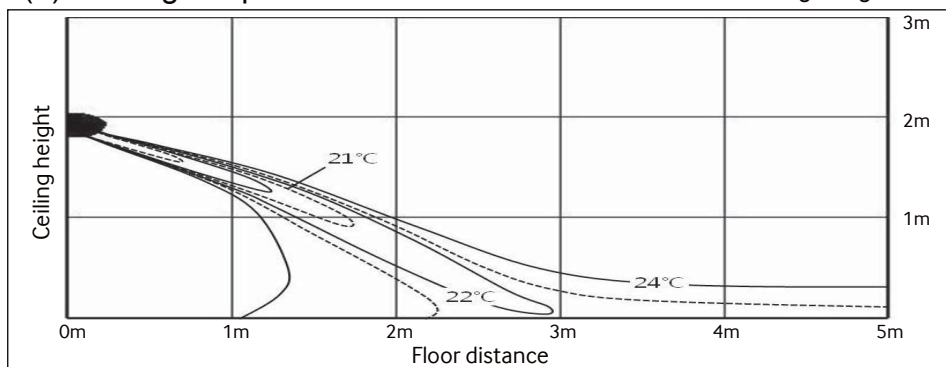
(1) Cooling air velocity distribution

Discharge angle : 25°



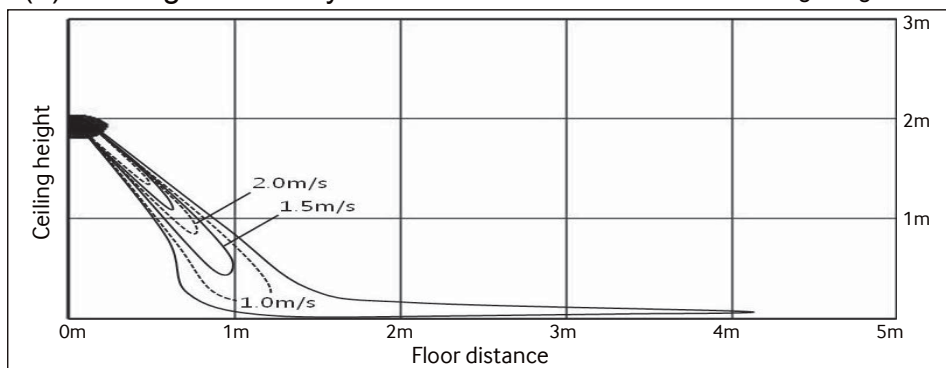
(2) Cooling temperature distribution

Discharge angle : 25°



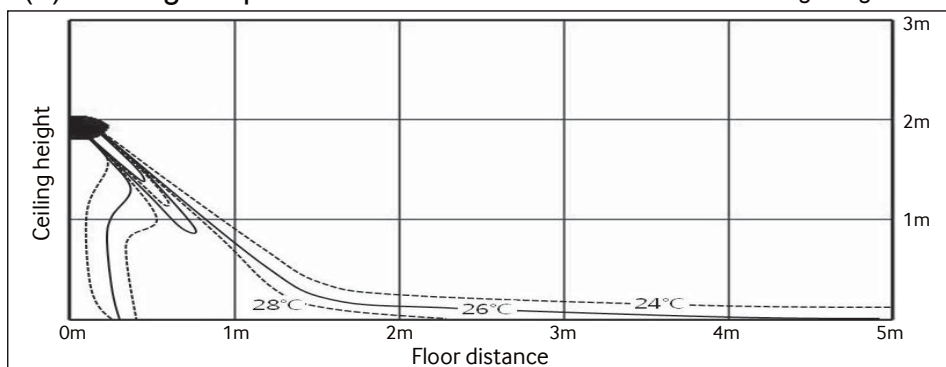
(3) Heating air velocity distribution

Discharge angle : 55°



(4) Heating temperature distribution

Discharge angle : 55°



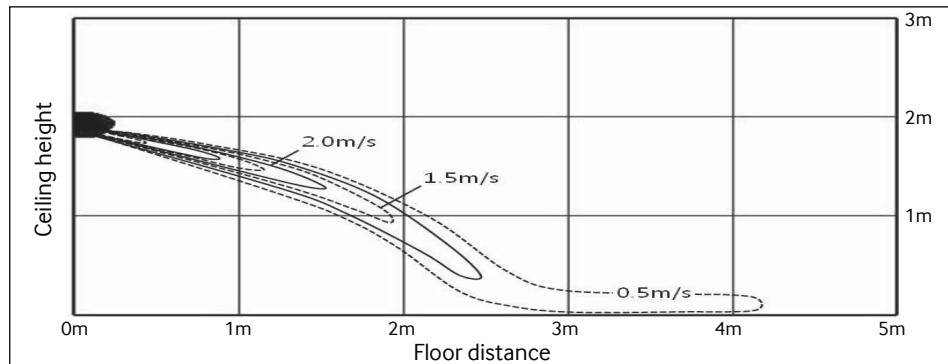
7 Temperature and air flow distribution

A3050

AM036JN★DKH★★★

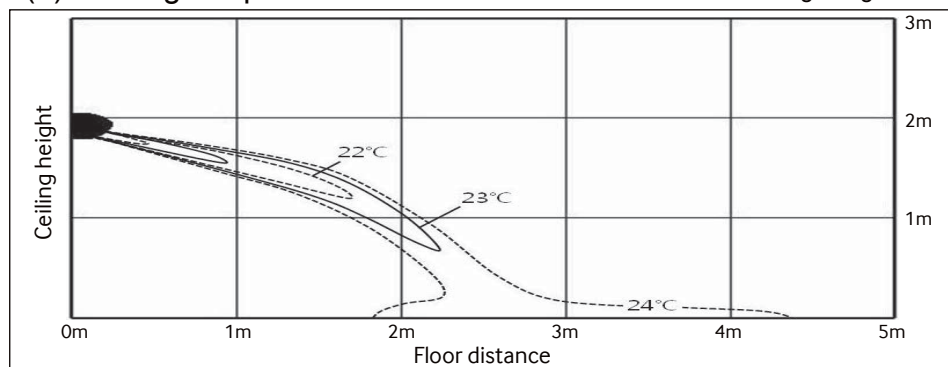
(1) Cooling air velocity distribution

Discharge angle : 18°



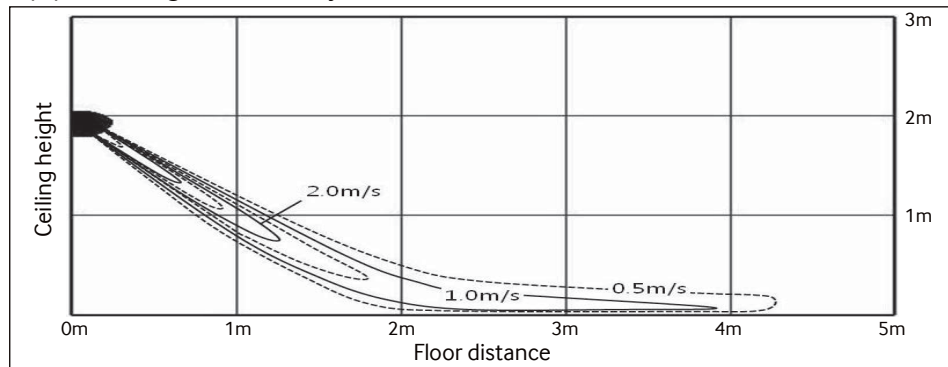
(2) Cooling temperature distribution

Discharge angle : 18°



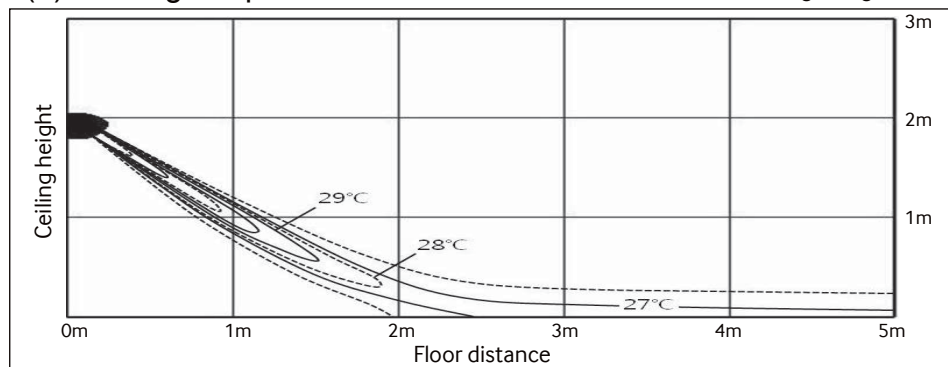
(3) Heating air velocity distribution

Discharge angle : 46°



(4) Heating temperature distribution

Discharge angle : 46°



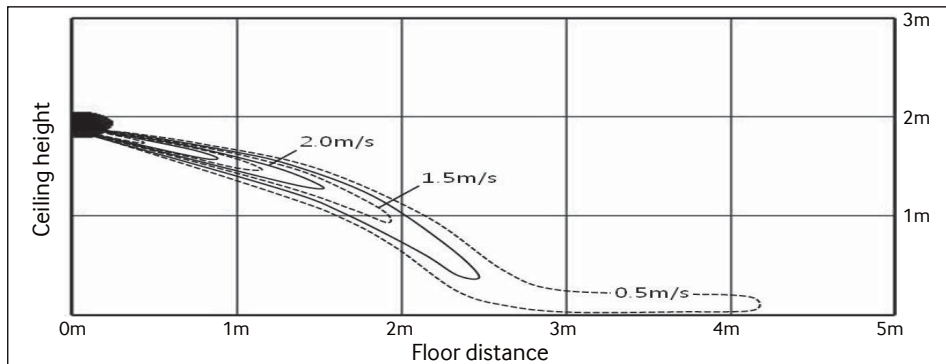
7 Temperature and air flow distribution

A3050

AM045JN*DKH***

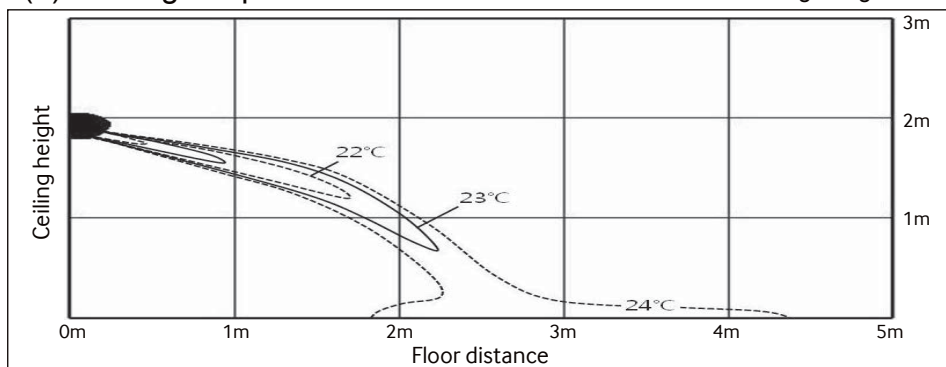
(1) Cooling air velocity distribution

Discharge angle : 18°



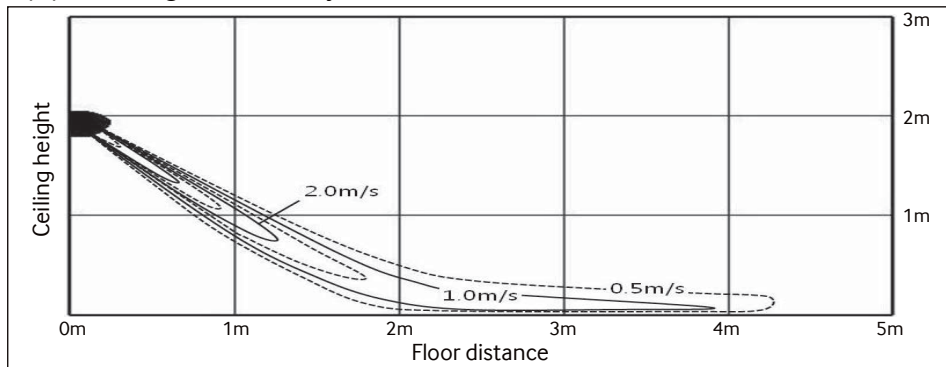
(2) Cooling temperature distribution

Discharge angle : 18°



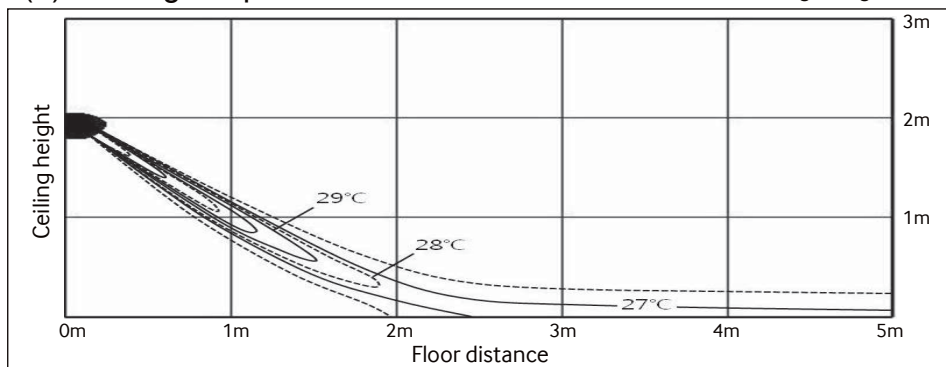
(3) Heating air velocity distribution

Discharge angle : 46°



(4) Heating temperature distribution

Discharge angle : 46°



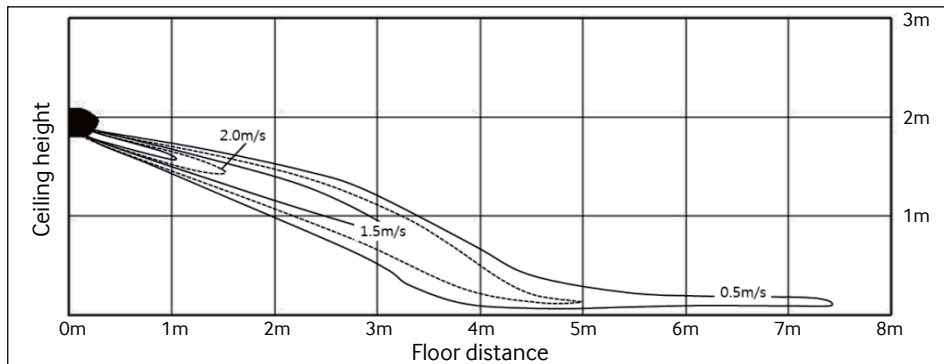
7 Temperature and air flow distribution

A3050

AM056JN★DKH★★★

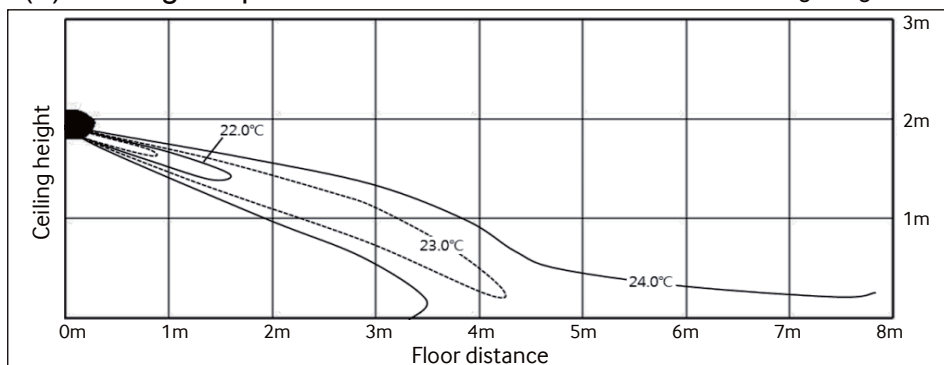
(1) Cooling air velocity distribution

Discharge angle : 18°



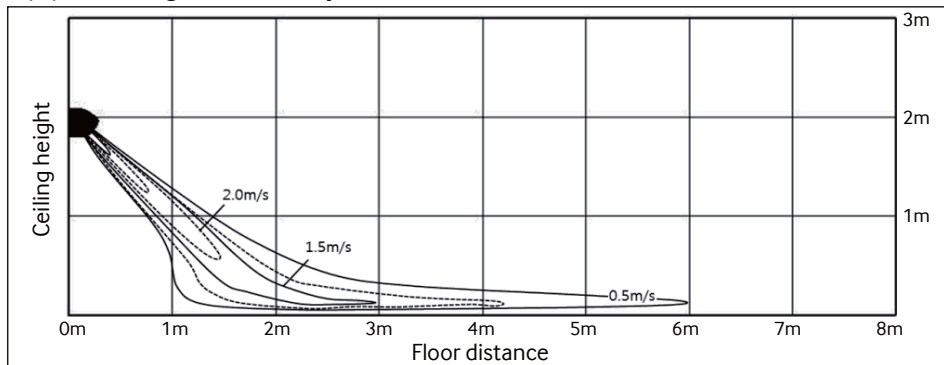
(2) Cooling temperature distribution

Discharge angle : 18°



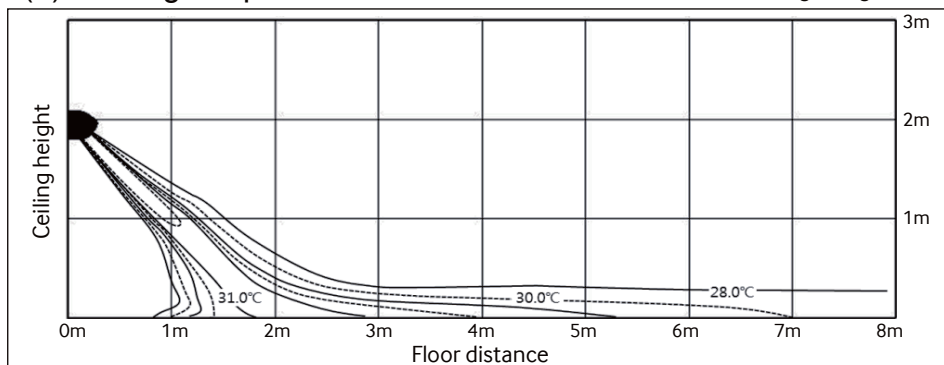
(3) Heating air velocity distribution

Discharge angle : 46°



(4) Heating temperature distribution

Discharge angle : 46°



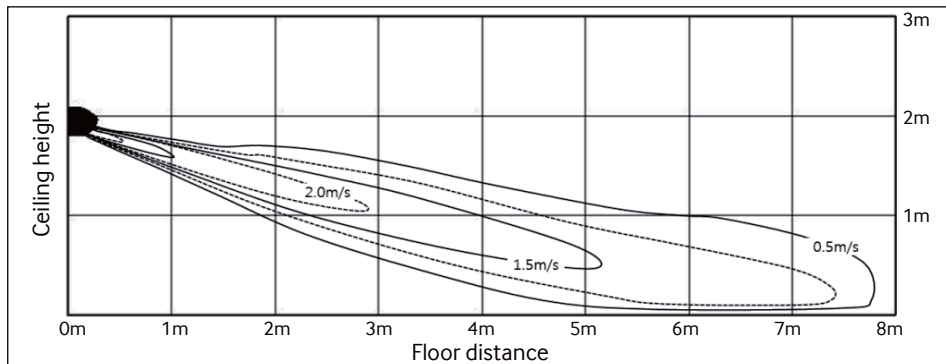
7 Temperature and air flow distribution

A3050

AM071JN*DKH***

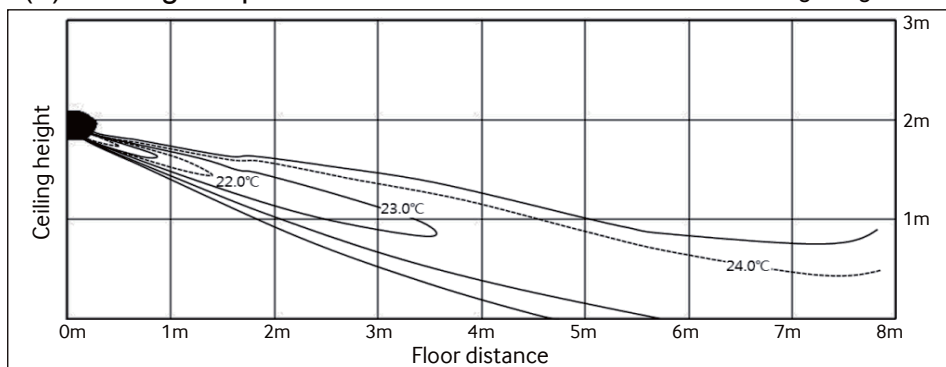
(1) Cooling air velocity distribution

Discharge angle : 18°



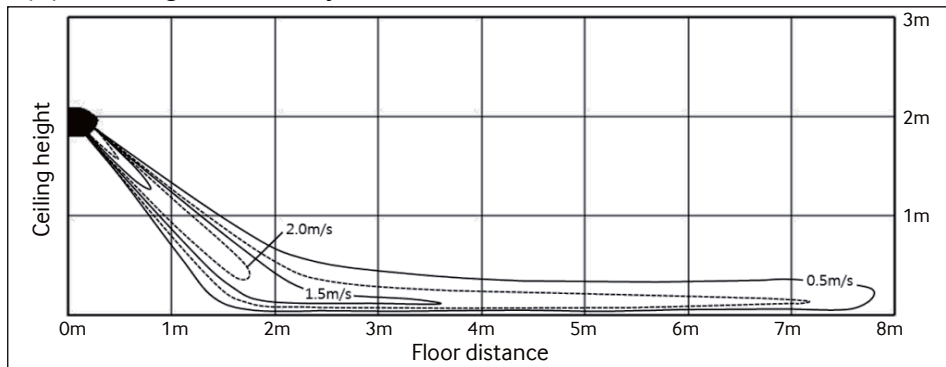
(2) Cooling temperature distribution

Discharge angle : 18°



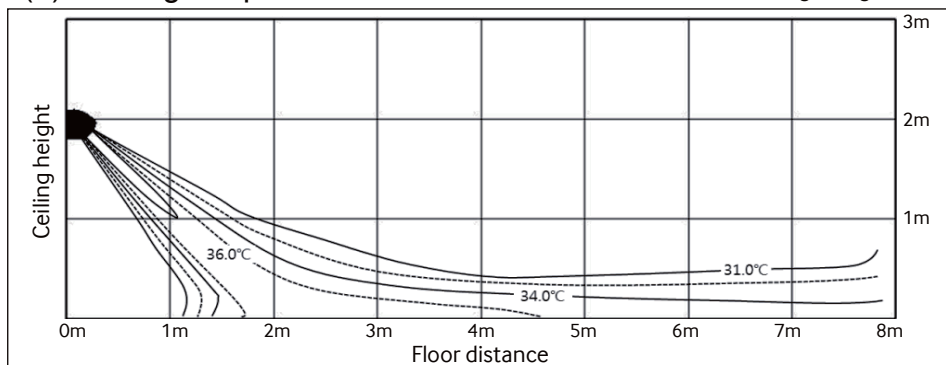
(3) Heating air velocity distribution

Discharge angle : 46°



(4) Heating temperature distribution

Discharge angle : 46°



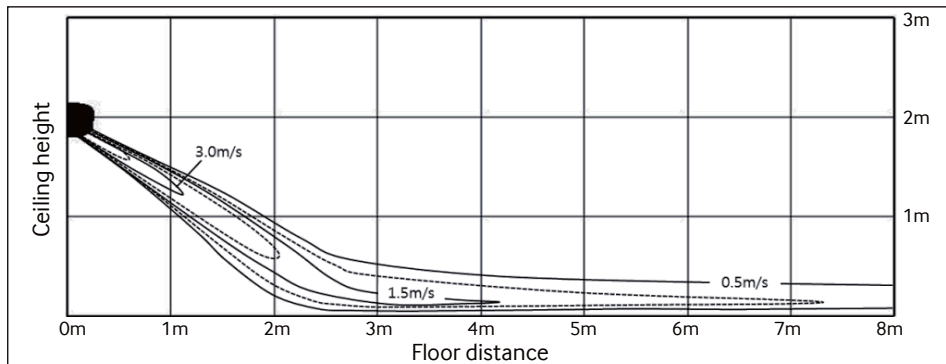
7 Temperature and air flow distribution

A3050

AM082JN*DKH***

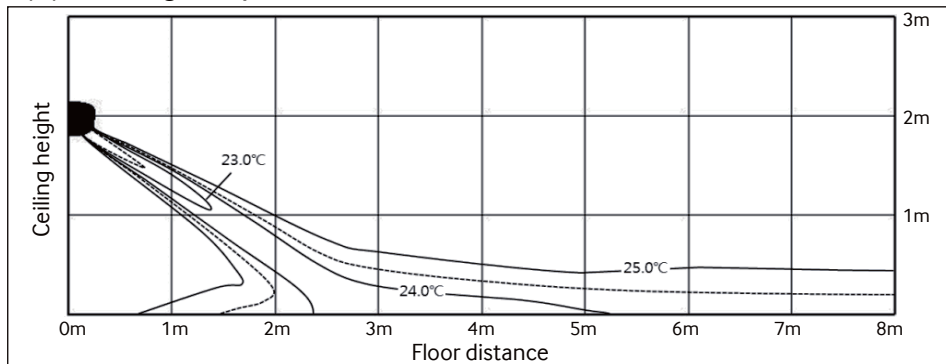
(1) Cooling air velocity distribution

Discharge angle : 32°



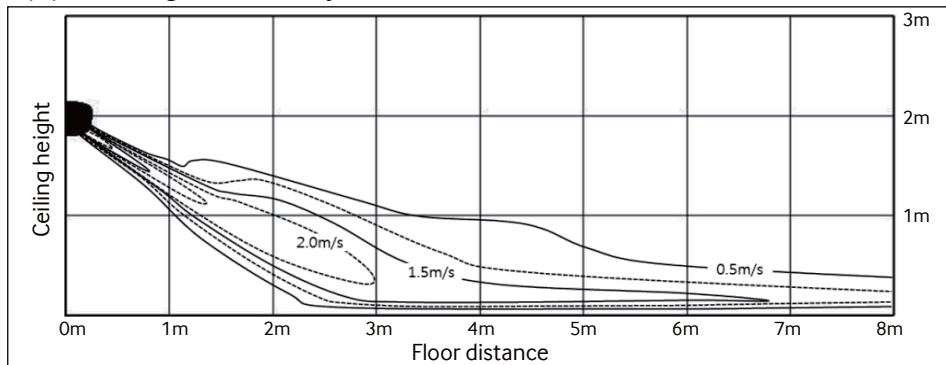
(2) Cooling temperature distribution

Discharge angle : 32°



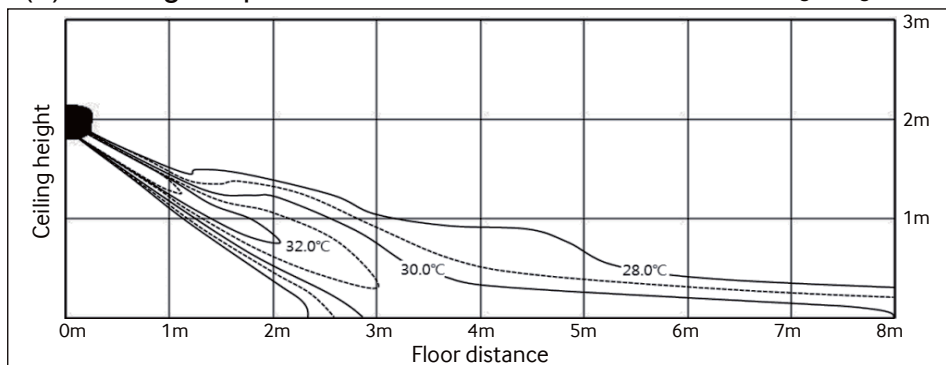
(3) Heating air velocity distribution

Discharge angle : 32°



(4) Heating temperature distribution

Discharge angle : 32°



Big Ceiling

1 Specifications

2 Capacity table

3 Dimensional drawing

4 Electrical wiring diagram

5 Sound pressure level

6 Sound power level

7 Temperature and air flow distribution

1 Specifications

Big Ceiling

Type				Ceiling		Ceiling	
Model				AM112JNC DKH/EU		AM140JNC DKH/EU	
Power Supply			Ø, #, V, Hz	1,2,220-240,50/60		1,2,220-240,50/60	
Mode			-	HP/HR		HP/HR	
Performance	Capacity (Nominal)	Cooling	kW	11.20		14.00	
			Btu/h	38,200		47,800	
		Heating	kW	12.50		16.00	
			Btu/h	42,700		54,600	
Power	Power Input (Nominal)	Cooling	W	92.00		160.00	
		Heating		80.00		160.00	
	Current Input (Nominal)	Cooling	A	0.94		1.45	
		Heating		0.83		1.45	
Fan	Motor	Type	-	Sirocco Fan		Sirocco Fan	
		Output x n	w	260 x 1		355 x 1	
	Air Flow Rate	H/M/L (UL)	CMM	29.30 / 23.90 / 18.50		36.40 / 30.80 / 26.00	
			l/s	488.33 / 398.33 / 308.33		606.67 / 513.33 / 433.33	
	External Pressure	Min/Std/Max	mmAq	-		-	
			Pa	-		-	
Piping Connections	Liquid Pipe		Ø, mm	9.52		9.52	
			Ø, inch	3/8"		3/8"	
	Gas Pipe		Ø, mm	15.88		15.88	
			Ø, inch	5/8"		5/8"	
	Drain Pipe		Ø, mm	VP25 (OD 25,ID 20)		VP25 (OD 25,ID 20)	
Field Wiring	Power Source Wire		mm²	1.5 - 2.5		1.5 - 2.5	
	Transmission Cable		mm²	0.75 - 1.50		0.75 - 1.50	
Refrigerant	Type		-	R410A		R410A	
	Control Method		-	EEV INCLUDED		EEV INCLUDED	
Sound	Pressure	High / Mid / Low	dB(A)	45.0 / 41.0 / 37.0		46.0 / 43.0 / 38.0	
	Power	Cooling		61.0		63.0	
Dimension	Net Weight		kg	33.50		42.50	
	Shipping Weight		kg	39.50		48.50	
	Net Dimensions (WxHxD)		mm	1,350 x 235 x 675		1,650 x 235 x 675	
	Shipping Dimensions (WxHxD)		mm	1,439 x 758 x 321		1,739 x 758 x 321	
Panel Size	Panel model		-	-		-	
	Panel Net Weight		kg	-		-	
	Shipping Weight		kg	-		-	
	Net Dimensions (WxHxD)		mm	-		-	
	Shipping Dimensions (WxHxD)		mm	-		-	
Additional Accessories	Drain Pump	Drain Pump	- / 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 have a global warming potential (GWP) greater than 150.

2 Capacity table

Big Ceiling

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity

Model	Outdoor temperature (°C, DB)	Indoor temperature (°C, WB)													
		14.0		16.0		18.0		19.0		20.0		22.0		24.0	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
11.20	10	7.70	6.40	9.10	7.10	10.50	7.80	11.20	7.90	11.60	7.90	12.50	7.90	13.40	7.90
	12	7.70	6.40	9.10	7.10	10.50	7.80	11.20	7.90	11.60	7.90	12.50	7.90	13.40	7.90
	14	7.70	6.40	9.10	7.10	10.50	7.80	11.20	7.90	11.60	7.90	12.50	7.90	13.30	7.80
	16	7.70	6.40	9.10	7.10	10.50	7.80	11.20	7.90	11.60	7.90	12.50	7.90	13.30	7.80
	18	7.70	6.40	9.10	7.10	10.50	7.80	11.20	7.90	11.60	7.90	12.40	7.90	13.20	7.70
	20	7.70	6.40	9.10	7.10	10.50	7.80	11.20	7.90	11.60	7.90	12.40	7.90	13.20	7.70
	21	7.70	6.40	9.10	7.10	10.50	7.80	11.20	7.90	11.60	7.90	12.40	7.90	13.20	7.70
	23	7.70	6.40	9.10	7.10	10.50	7.80	11.20	7.90	11.60	7.90	12.40	7.90	13.20	7.70
	25	7.70	6.40	9.10	7.10	10.50	7.80	11.20	7.90	11.60	7.90	12.40	7.90	13.20	7.70
	27	7.70	6.40	9.10	7.10	10.50	7.80	11.20	7.90	11.60	7.90	12.40	7.90	13.20	7.70
	29	7.70	6.40	9.10	7.10	10.50	7.80	11.20	7.90	11.60	7.90	12.40	7.90	13.20	7.70
	31	7.70	6.40	9.10	7.10	10.50	7.80	11.20	7.90	11.60	7.90	12.40	7.90	13.20	7.70
	33	7.70	6.30	9.10	7.00	10.50	7.80	11.20	7.90	11.60	7.90	12.40	7.90	13.20	7.70
	35	7.70	6.30	9.10	7.00	10.50	7.80	11.20	7.90	11.60	7.90	12.40	7.90	13.20	7.70
	37	7.70	6.30	9.10	7.00	10.50	7.80	11.20	7.90	11.60	7.90	12.30	7.80	13.00	7.60
	39	7.70	6.30	9.10	7.00	10.50	7.80	11.20	8.00	11.50	7.80	12.10	7.70	12.70	7.50
14.00	10	9.70	7.70	11.40	8.50	13.10	9.40	14.00	9.60	14.60	9.60	15.70	9.50	16.80	9.70
	12	9.70	7.70	11.40	8.50	13.10	9.40	14.00	9.60	14.50	9.60	15.60	9.60	16.70	9.60
	14	9.70	7.70	11.40	8.50	13.10	9.40	14.00	9.60	14.50	9.60	15.60	9.60	16.70	9.60
	16	9.70	7.70	11.40	8.50	13.10	9.40	14.00	9.60	14.50	9.60	15.60	9.60	16.60	9.50
	18	9.70	7.70	11.40	8.50	13.10	9.40	14.00	9.60	14.50	9.60	15.50	9.50	16.60	9.50
	20	9.70	7.70	11.40	8.50	13.10	9.40	14.00	9.60	14.50	9.60	15.50	9.50	16.50	9.40
	21	9.70	7.70	11.40	8.50	13.10	9.40	14.00	9.60	14.50	9.60	15.50	9.50	16.50	9.40
	23	9.70	7.70	11.40	8.50	13.10	9.40	14.00	9.60	14.50	9.60	15.50	9.50	16.50	9.40
	25	9.70	7.70	11.40	8.50	13.10	9.40	14.00	9.60	14.50	9.60	15.50	9.50	16.50	9.40
	27	9.70	7.70	11.40	8.50	13.10	9.40	14.00	9.60	14.50	9.60	15.50	9.50	16.50	9.40
	29	9.70	7.70	11.40	8.50	13.10	9.40	14.00	9.60	14.50	9.60	15.50	9.50	16.50	9.40
	31	9.70	7.70	11.40	8.50	13.10	9.40	14.00	9.60	14.50	9.60	15.50	9.50	16.50	9.40
	33	9.70	7.70	11.40	8.50	13.10	9.40	14.00	9.60	14.50	9.60	15.50	9.50	16.50	9.40
	35	9.70	7.70	11.40	8.50	13.10	9.40	14.00	9.60	14.50	9.60	15.50	9.50	16.50	9.40
	37	9.70	7.70	11.40	8.50	13.10	9.40	14.00	9.60	14.50	9.60	15.40	9.40	16.30	9.20
	39	9.70	7.70	11.40	8.50	13.10	9.40	14.00	9.60	14.40	9.40	15.10	9.30	15.90	9.00

2 Capacity table

Big Ceiling

Heating

TC : Total Capacity

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
11.20	-19.8	-20.0	7.44	7.43	7.32	7.31	7.31
	-18.8	-19.0	7.64	7.56	7.42	7.38	7.34
	-16.7	-17.0	8.06	7.85	7.65	7.53	7.42
	-14.7	-15.0	8.44	8.15	7.95	7.75	7.56
	-12.6	-13.0	8.72	8.50	8.30	8.10	7.98
	-10.5	-11.0	9.10	8.90	8.78	8.65	8.55
	-9.5	-10.0	9.28	9.10	8.98	8.87	8.75
	-8.5	-9.1	9.45	9.30	9.15	9.00	8.85
	-7.0	-7.6	9.70	9.60	9.40	9.20	9.00
	-5.0	-5.6	10.20	10.10	9.90	9.60	9.30
	-3.0	-3.7	10.70	10.60	10.50	10.10	9.70
	0.0	-0.7	11.30	11.10	11.10	10.50	10.00
	3.0	2.2	11.80	11.60	11.50	11.00	10.60
	5.0	4.1	12.30	12.20	12.00	11.30	10.60
	7.0	6.0	12.90	12.70	12.50	11.50	10.60
	9.0	7.9	13.30	12.90	12.50	11.50	10.60
	11.0	9.8	13.70	13.10	12.50	11.50	10.60
	13.0	11.8	14.00	13.30	12.50	11.50	10.60
	15.0	13.7	14.40	13.50	12.50	11.50	10.60
14.00	-19.8	-20.0	9.54	9.53	9.41	9.41	9.31
	-18.8	-19.0	9.74	9.66	9.48	9.48	9.34
	-16.7	-17.0	10.19	9.98	9.68	9.63	9.42
	-14.7	-15.0	10.75	10.46	10.17	9.88	9.58
	-12.6	-13.0	11.10	10.88	10.66	10.44	10.14
	-10.5	-11.0	11.58	11.45	11.25	11.13	10.90
	-9.5	-10.0	11.82	11.70	11.52	11.38	11.17
	-8.5	-9.1	12.05	11.90	11.75	11.55	11.30
	-7.0	-7.6	12.40	12.20	12.10	11.80	11.50
	-5.0	-5.6	13.10	12.90	12.70	12.30	12.00
	-3.0	-3.7	13.80	13.60	13.40	12.90	12.40
	0.0	-0.7	14.40	14.20	14.00	13.40	12.80
	3.0	2.2	15.10	14.90	14.70	14.10	13.50
	5.0	4.1	15.80	15.60	15.30	14.40	13.50
	7.0	6.0	16.50	16.20	16.00	14.80	13.50
	9.0	7.9	17.00	16.50	16.00	14.80	13.50
	11.0	9.8	17.50	16.70	16.00	14.80	13.50
	13.0	11.8	18.00	17.00	16.00	14.80	13.50
	15.0	13.7	18.50	17.20	16.00	14.80	13.50

3 Dimensional drawing

Big Ceiling

AM112JNCDKH/EU

Units : mm/inches

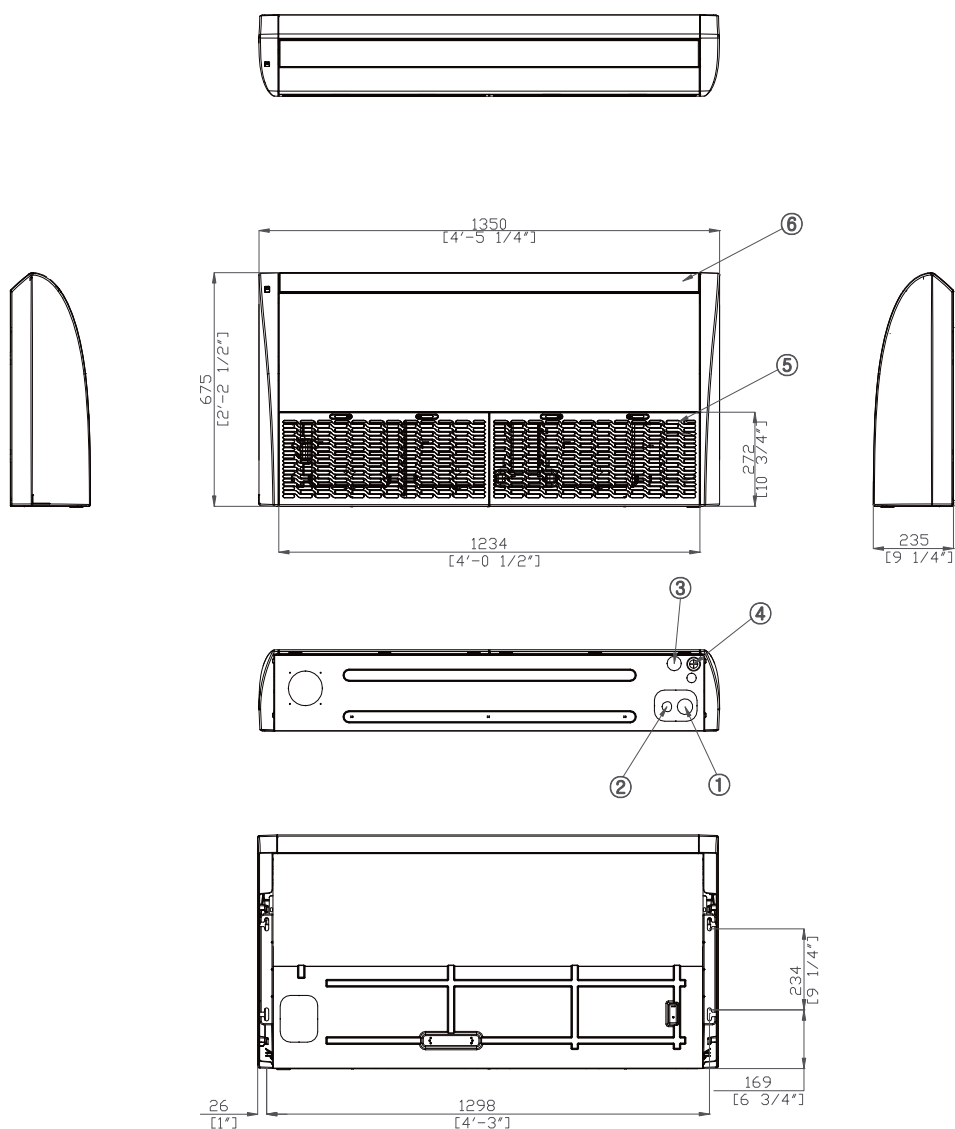


Table of descriptions

1	Refrigerant gas pipe	7	
2	Refrigerant liquid pipe	8	
3	Condensate drain	9	
4	Power&Comm. wiring conduits	10	
5	Air Inlet grille	11	
6	Air Outlet grille	12	

3 Dimensional drawing

Big Ceiling

AM140JNCDKH/EU

Units : mm/inches

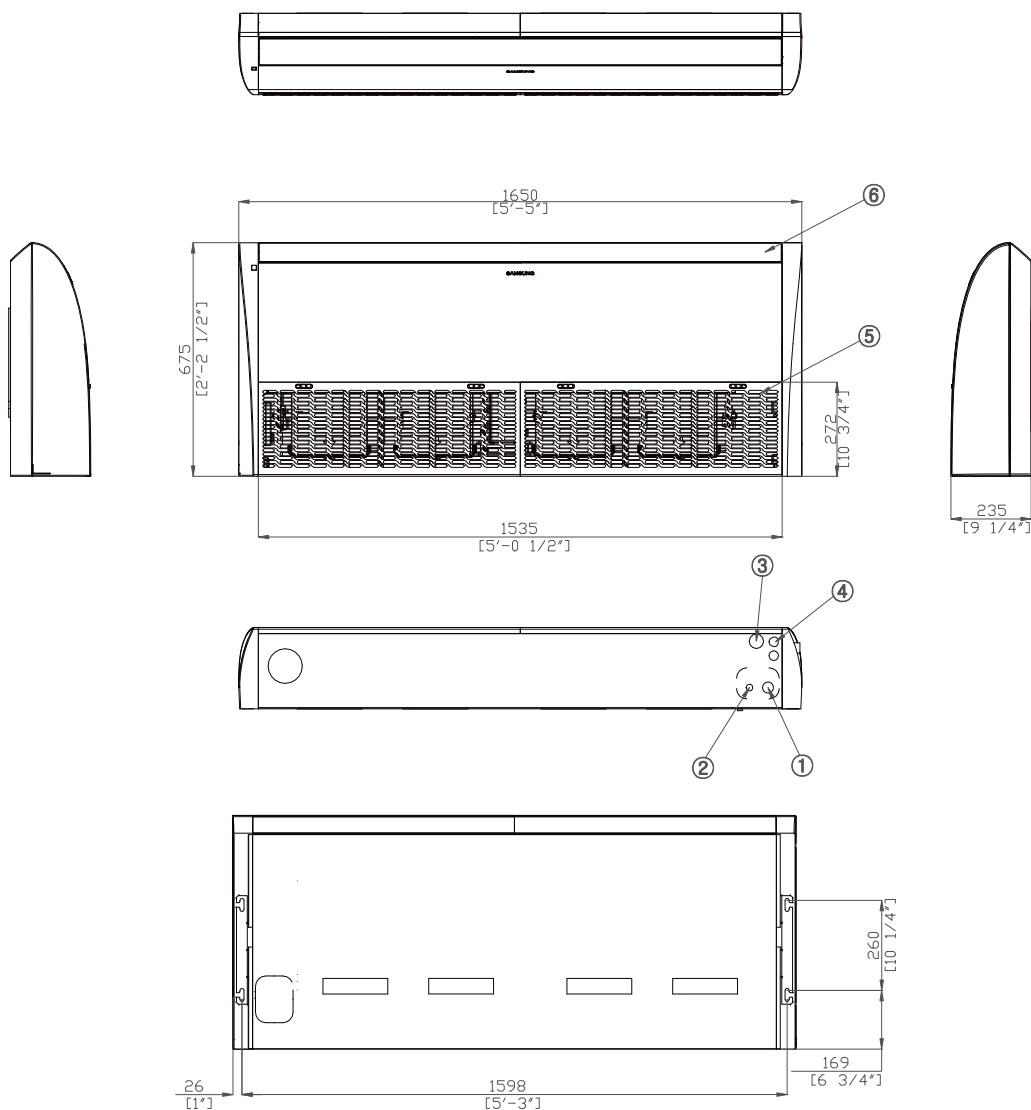


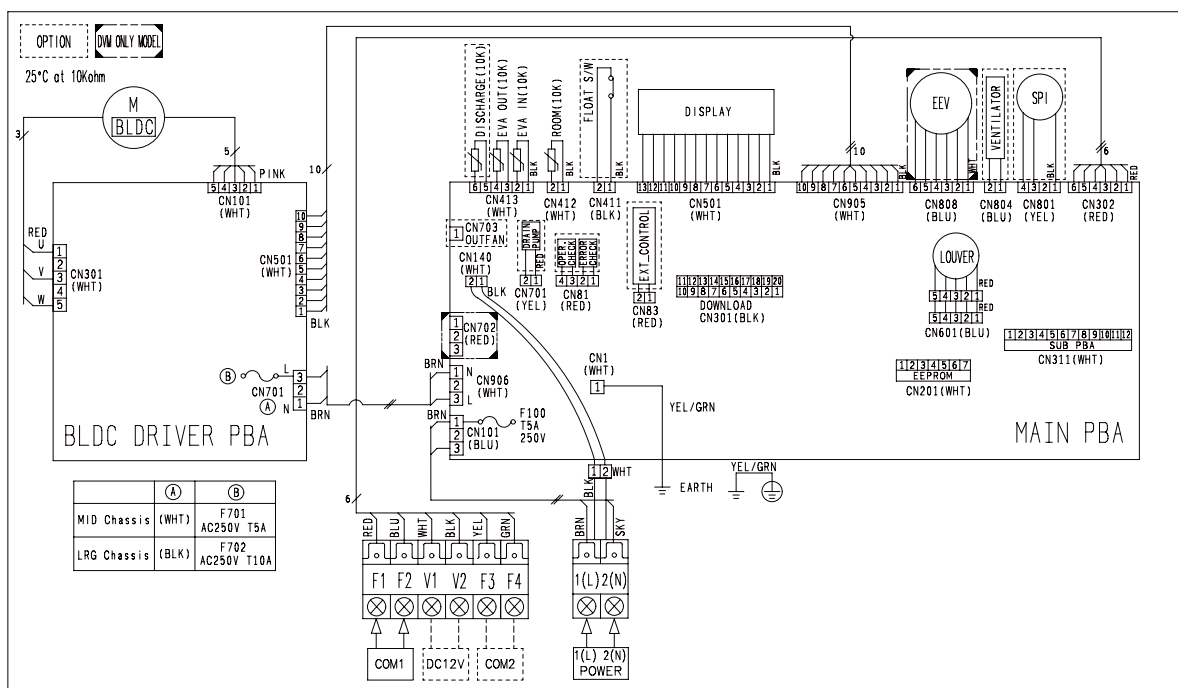
Table of descriptions

1	Refrigerant gas pipe	7	
2	Refrigerant liquid pipe	8	
3	Condensate drain	9	
4	Power&Comm. wiring conduits	10	
5	Air Inlet grille	11	
6	Air Outlet grille	12	

4 Electrical wiring diagram

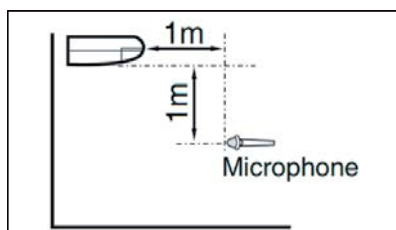
Big Ceiling

AM112JNC DKH/EU, AM140JNC DKH/EU



5 Sound pressure level

Big Ceiling



Unit: dB(A)

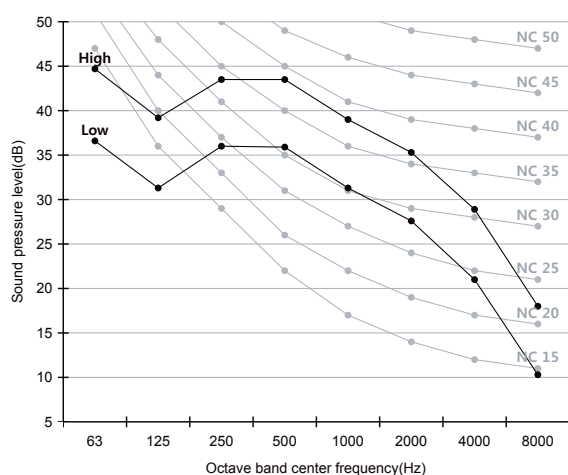
Model	High	Low
AM112JNC DKH/EU	45.0	37.0
AM140JNC DKH/EU	46.0	38.0

Note

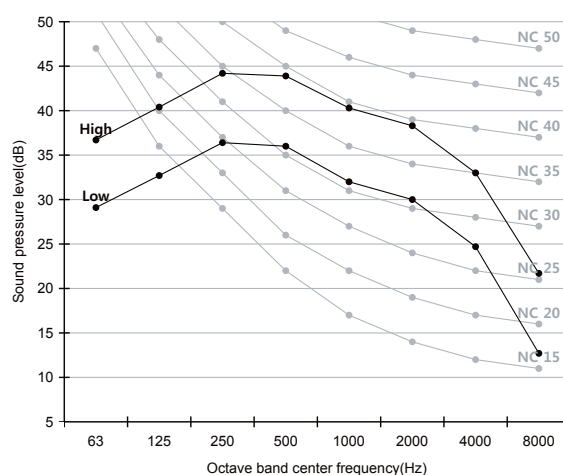
- These operation values were obtained in an anechoic room.
- Sound pressure level will vary depending on a range of factors such as the construction of the particular room

NC curve

1) AM112JNC DKH/EU



2) AM140JNC DKH/EU



6 Sound power level

Big Ceiling

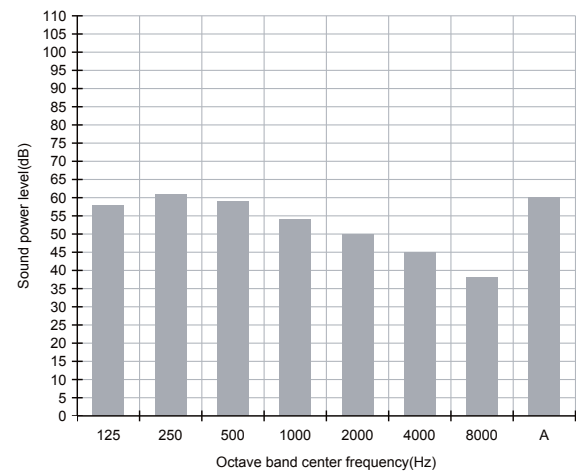
Note

- dBA = A-Weighted sound power level.
- Reference power : 1pW
- Measured according to ISO 3741.

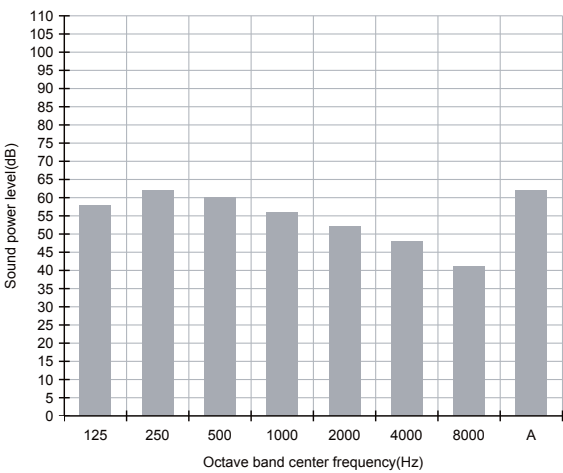
Unit: dB(A)

Model	Power
AM112JNC DKH/EU	61.0
AM140JNC DKH/EU	63.0

1)AM112JNC DKH/EU



2)AM140JNC DKH/EU



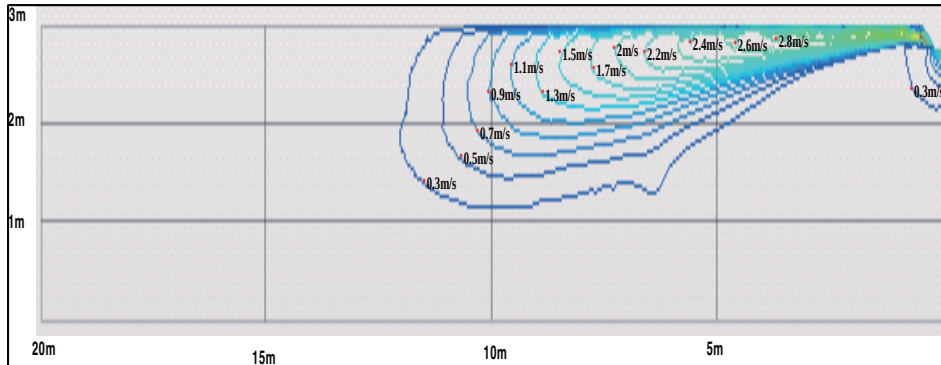
7 Temperature and air flow distribution

Big Ceiling

AM112JNCDKH/EU

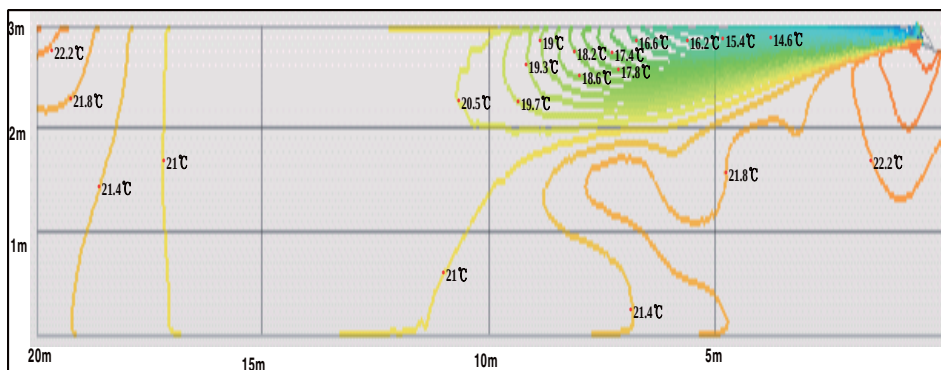
(1) Cooling air velocity distribution

Discharge angle : 101°



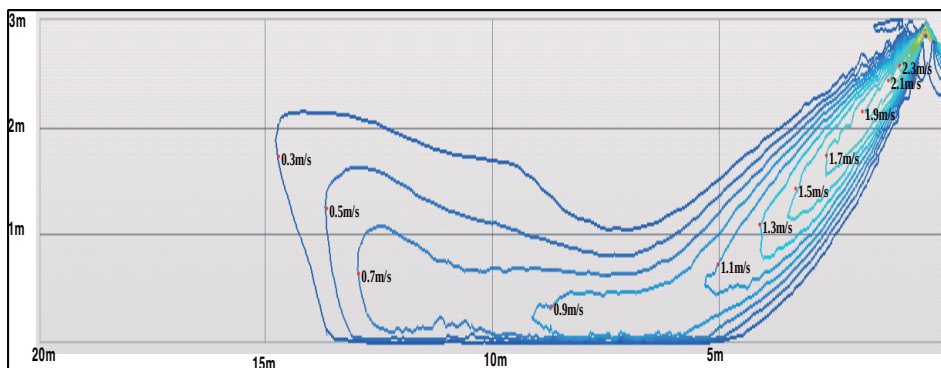
(2) Cooling temperature distribution

Discharge angle : 101°



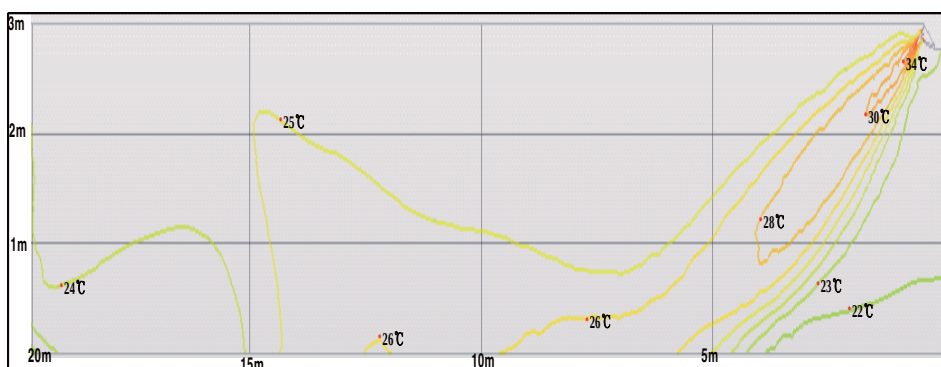
(3) Heating air velocity distribution

Discharge angle : 90°



(4) Heating temperature distribution

Discharge angle : 90°



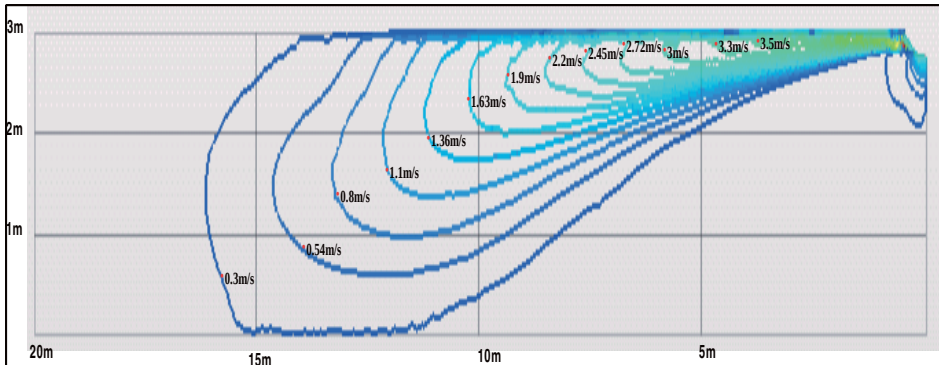
7 Temperature and air flow distribution

Big Ceiling

AM140JNCDKH/EU

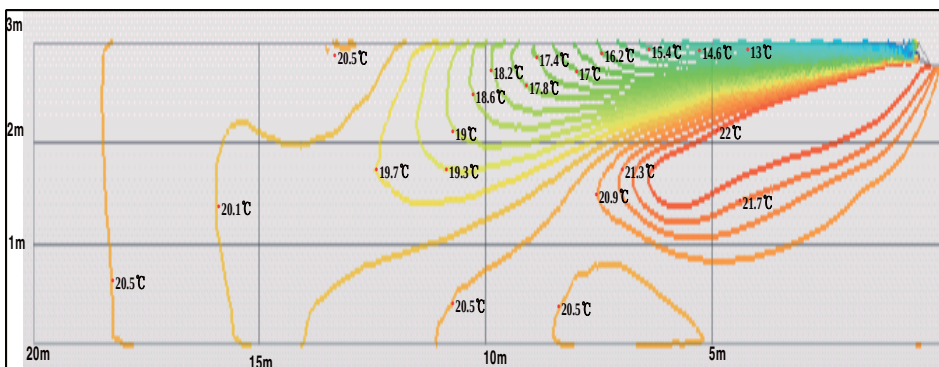
(1) Cooling air velocity distribution

Discharge angle : 101°



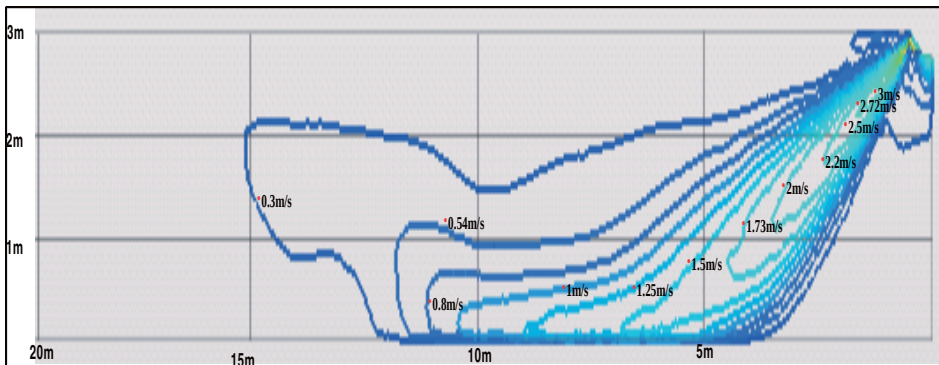
(2) Cooling temperature distribution

Discharge angle : 101°



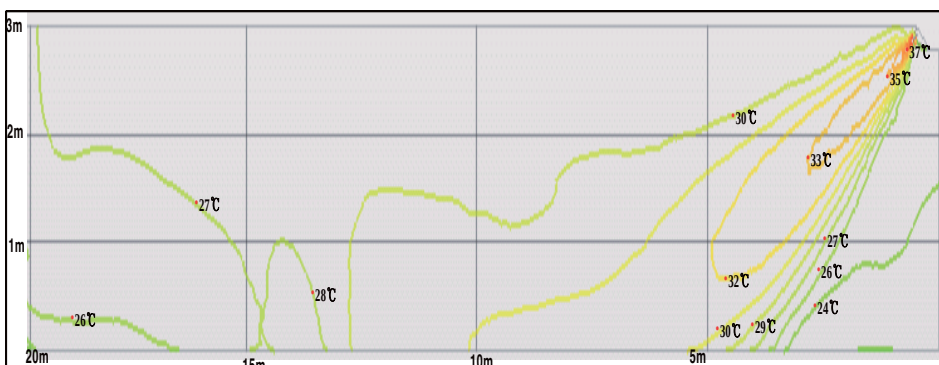
(3) Heating air velocity distribution

Discharge angle : 90°



(4) Heating temperature distribution

Discharge angle : 90°



Ceiling

1 Specifications

2 Capacity table

3 Dimensional drawing

4 Electrical wiring diagram

5 Sound pressure level

6 Temperature and air flow distribution

1 Specifications

Ceiling

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.

2 Capacity table

Ceiling

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	3.2	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

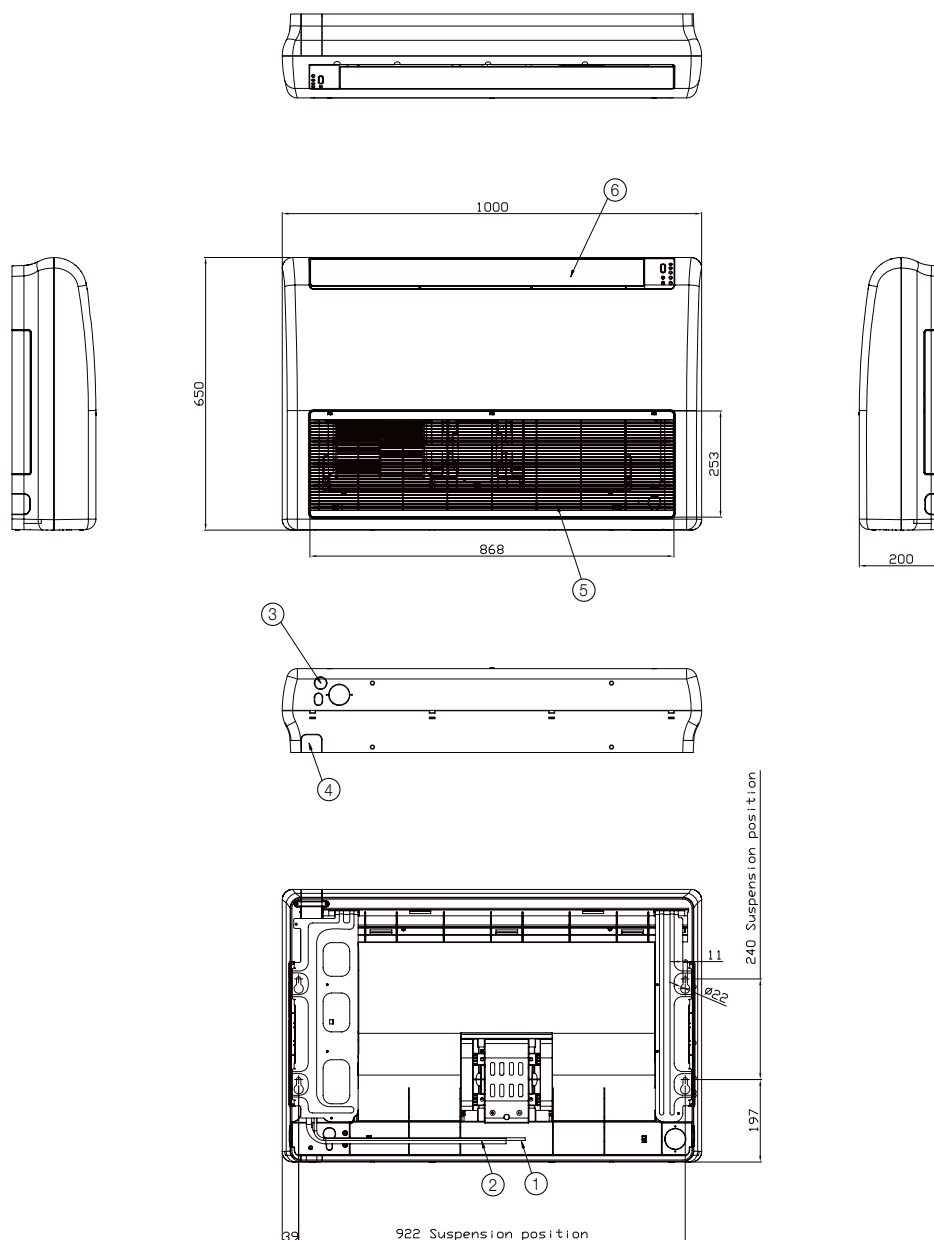
TC : Total Capacity(kW)

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

3 Dimensional drawing

Ceiling

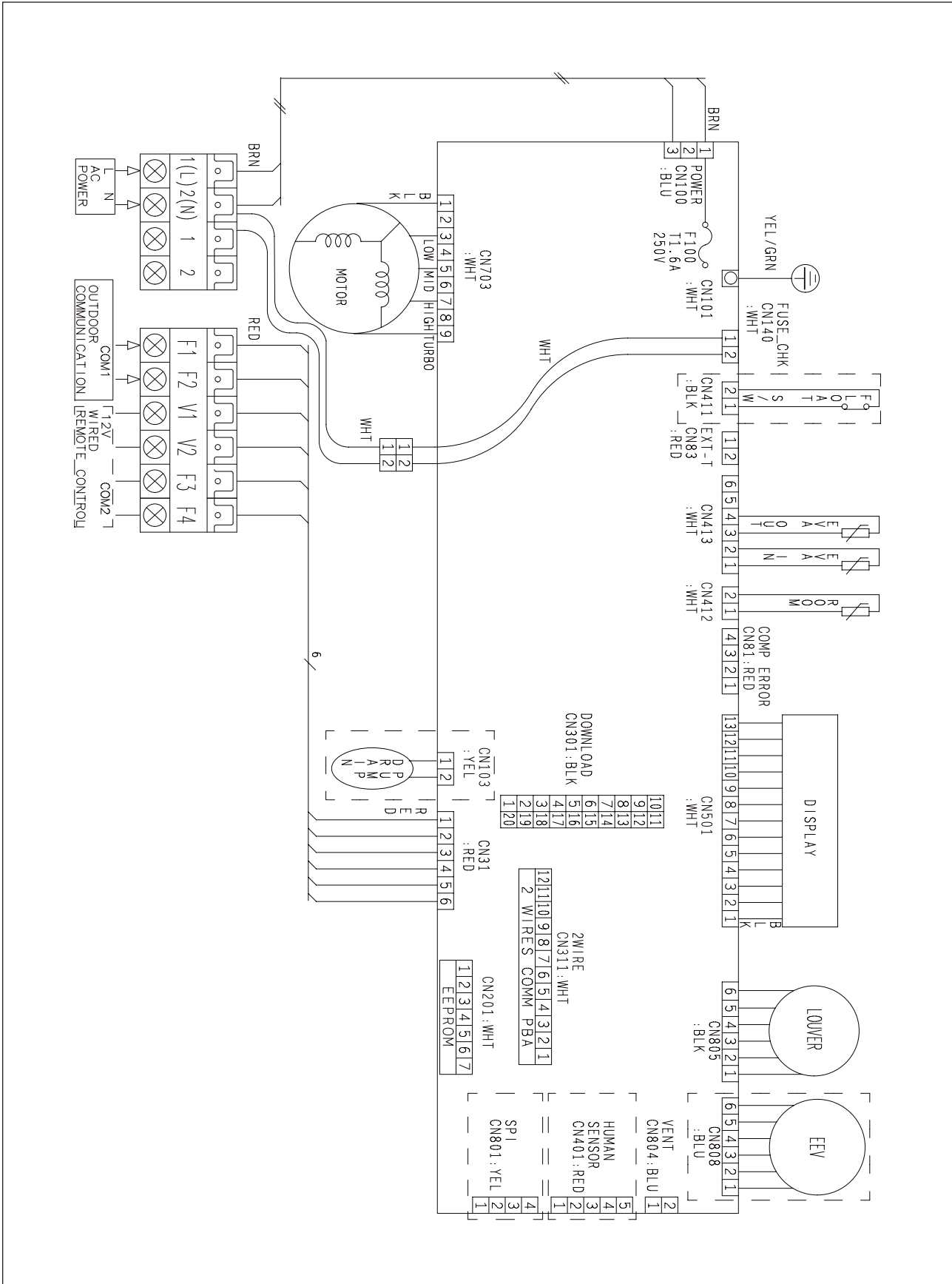
Unit:mm



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	-	

4

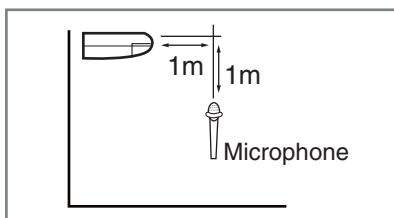
Ceiling



5 Sound pressure level

Ceiling

1) Operation sound level



Unit : dB(A)

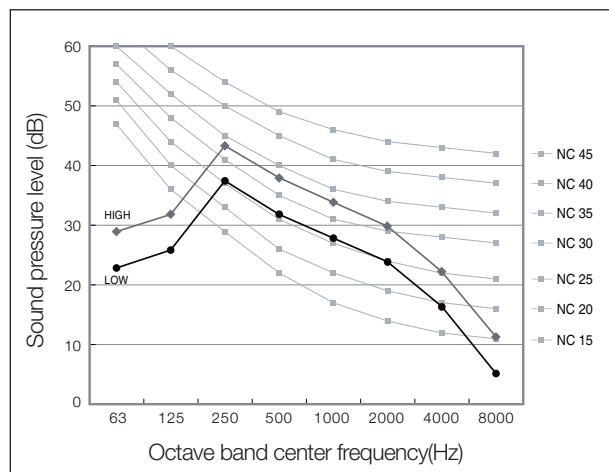
Model	High	Low
AM056FNCDEH***	40	34
AM071FNCDEH***	44	40

☒ Note

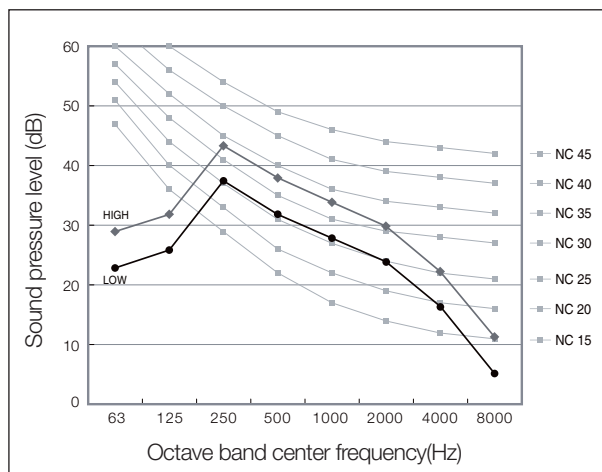
- ◆ These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- ◆ Operation sound level may differ depending on operation and ambient conditions.

2) NC curves

(1) AM056FNCDEH***



(2) AM071FNCDEH***



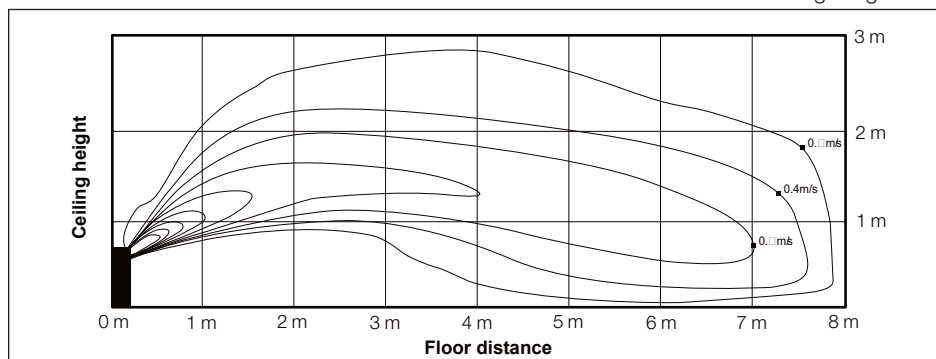
6 Temperature and air flow distribution

Ceiling

1) AM071FNCDEH*** (Floor installation)

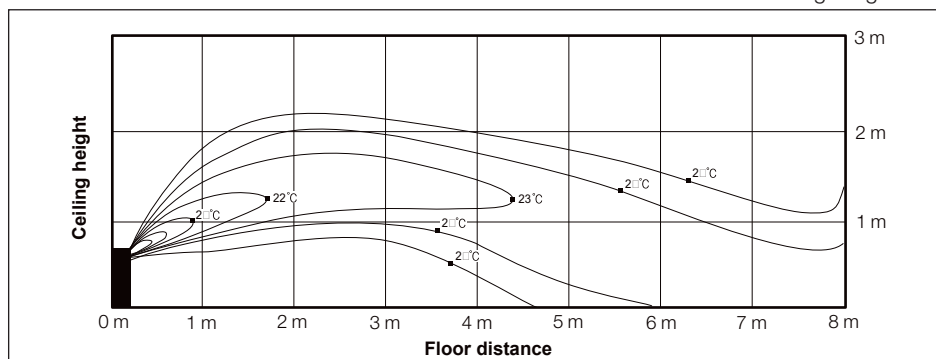
(1) Cooling air velocity distribution

◆ Discharge angle : 36°



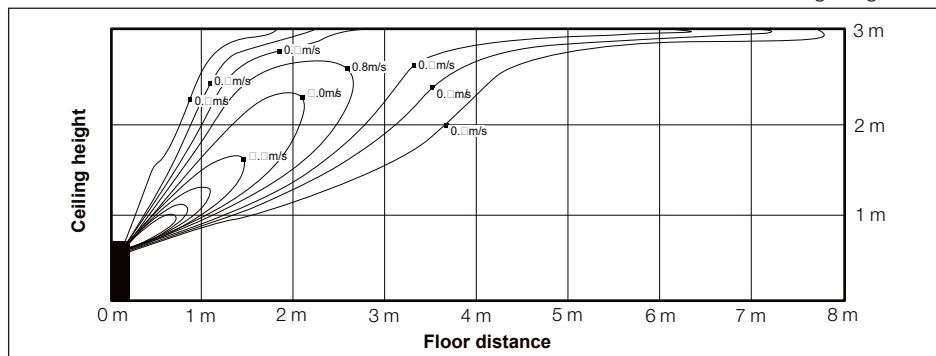
(2) Cooling temperature distribution

◆ Discharge angle : 36°



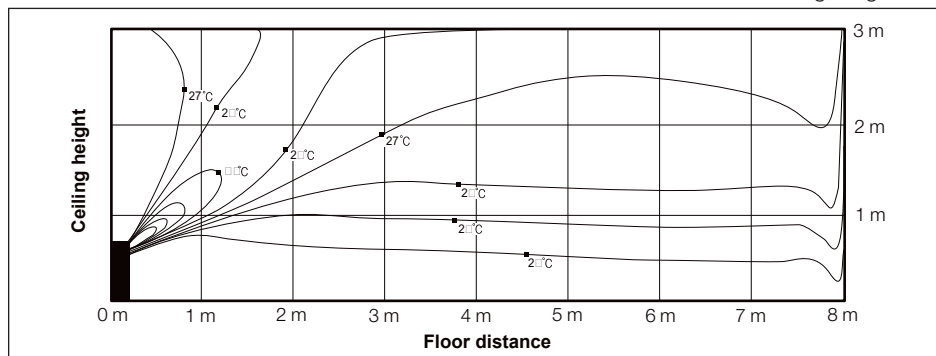
(3) Heating air velocity distribution

◆ Discharge angle : 54°



(4) Heating temperature distribution

◆ Discharge angle : 54°



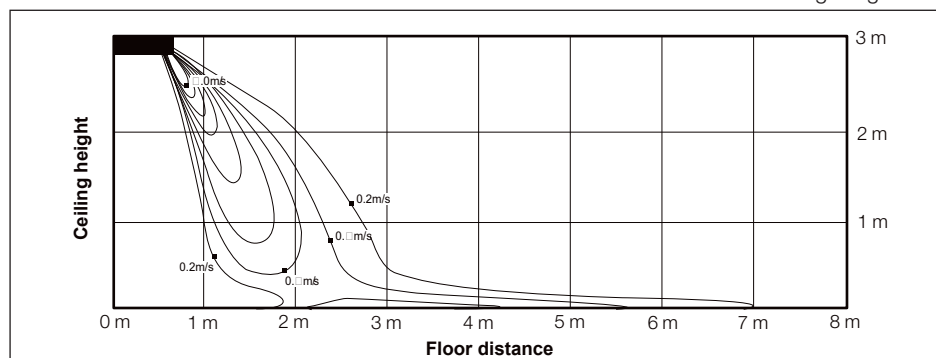
6 Temperature and air flow distribution

Ceiling

2) AM071FNCDEH*** (Ceiling installation)

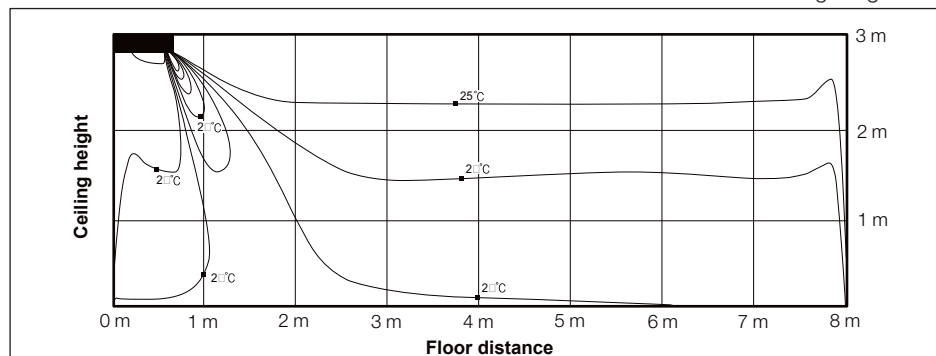
(1) Cooling air velocity distribution

◆ Discharge angle : 36°



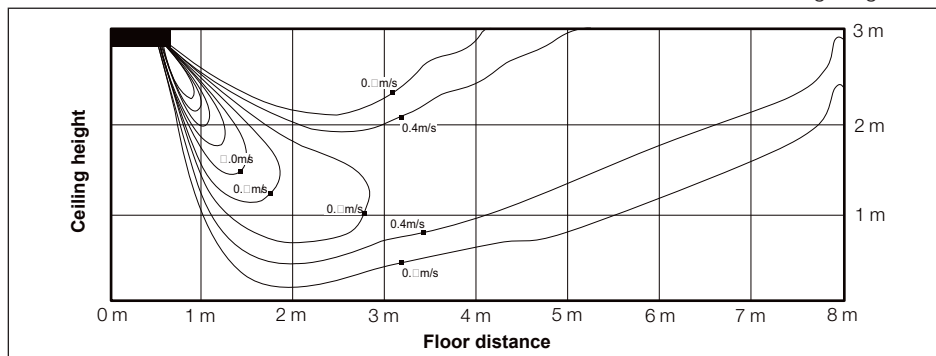
(2) Cooling temperature distribution

◆ Discharge angle : 36°



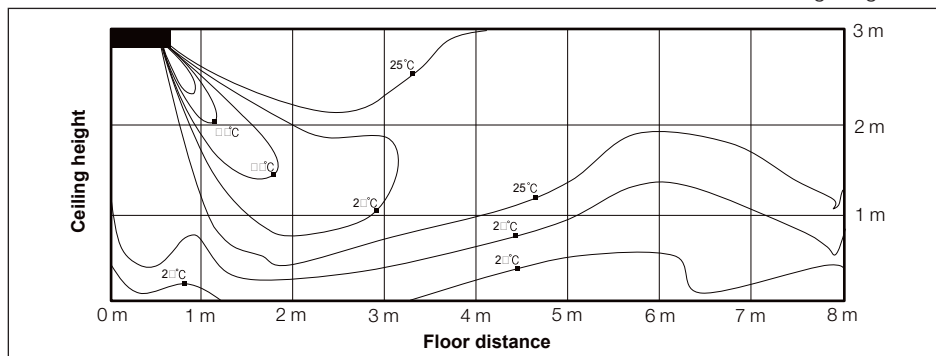
(3) Heating air velocity distribution

◆ Discharge angle : 54°



(4) Heating temperature distribution

◆ Discharge angle : 54°



Console

1 Specifications

2 Capacity table

3 Dimensional drawing

4 Electrical wiring diagram

5 Sound pressure level

6 Temperature and air flow distribution

1 Specifications

Console

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

* 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 Capacity table

Console

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

2 Capacity table

Console

2) Heating

TC : Total Capacity(kW)

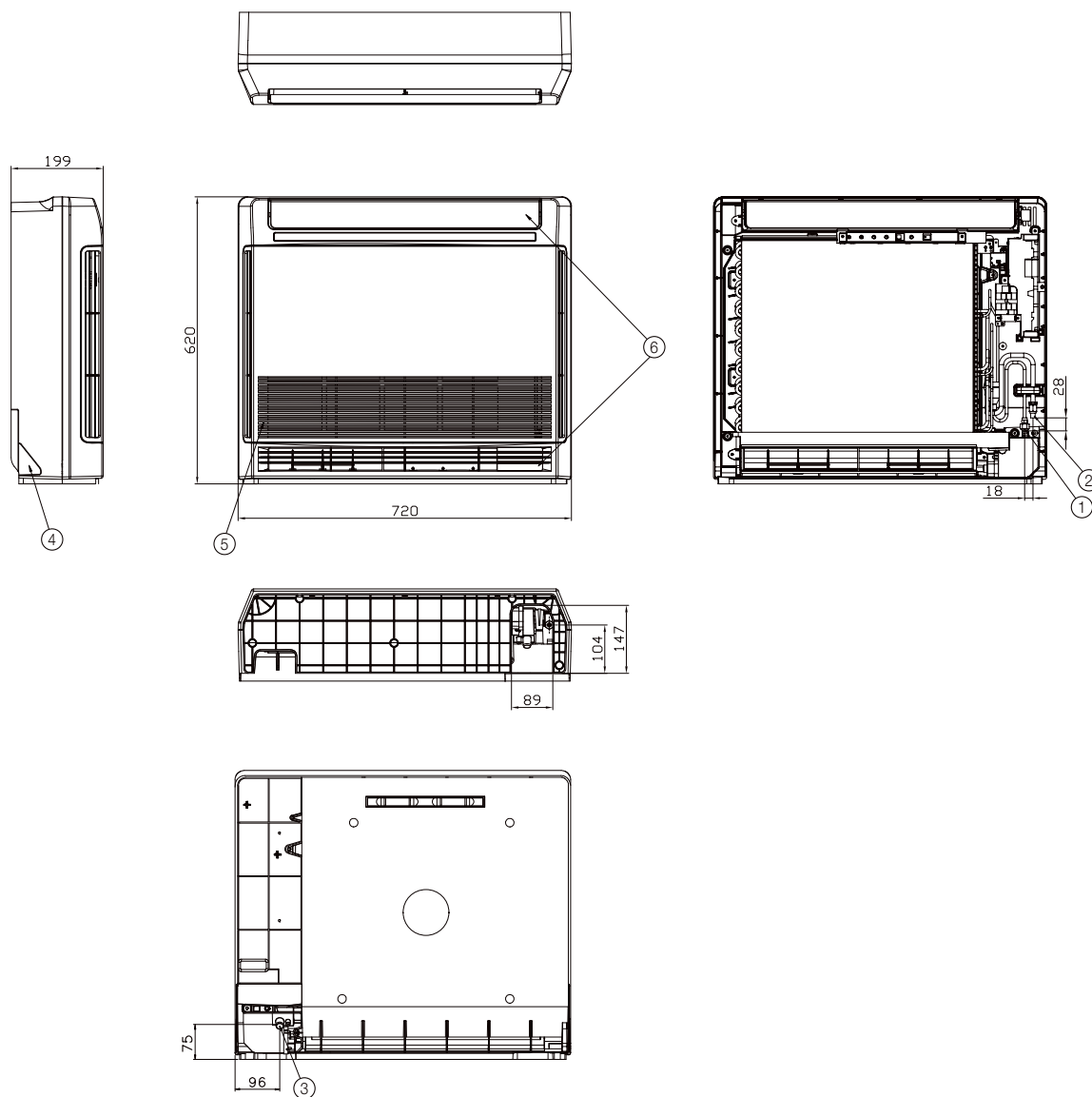
Model	Outdoor temperature (°C)		Indoor temperature (°C, DB)				
			16.0	18.0	20.0	22.0	24.0
	DB	WB	TC kW	TC kW	TC kW	TC kW	TC kW
028	-20	-21	1.9	1.9	1.9	1.9	1.9
	-17	-18	2.0	2.0	2.0	2.0	1.9
	-15	-16	2.1	2.1	2.0	2.0	1.9
	-12	-13	2.2	2.2	2.2	2.1	2.1
	-10	-11	2.3	2.3	2.3	2.3	2.2
	-7	-8	2.5	2.4	2.4	2.4	2.3
	-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
036	15	14	3.7	3.4	3.2	3.0	2.7
	-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
056	13	12	4.5	4.2	4.0	3.7	3.4
	15	14	4.6	4.3	4.0	3.7	3.4
	-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

3 Dimensional drawing

Console

1) AM028/036FNJDEH***

Unit:mm



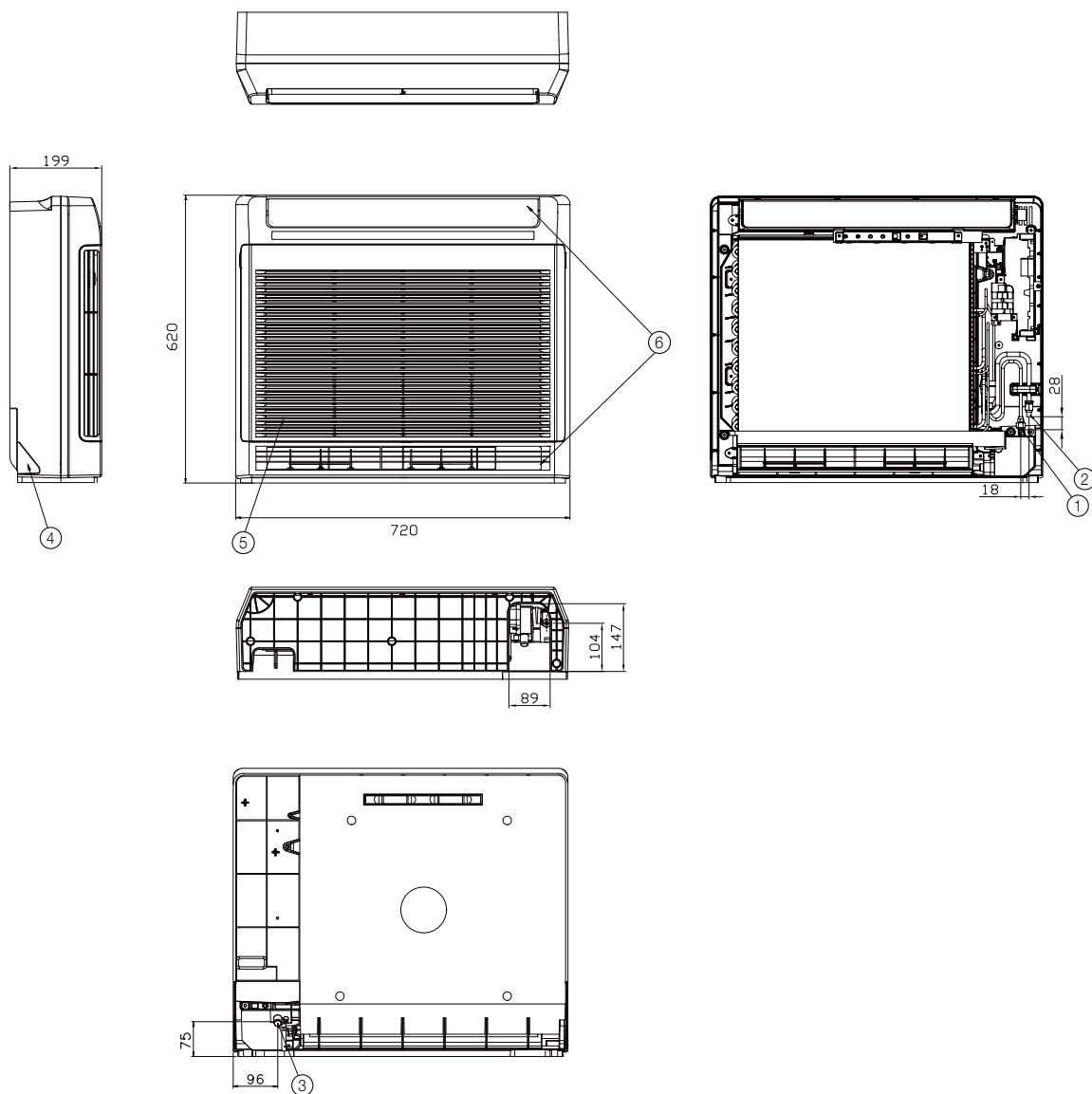
No.	Name	Description	
		2.8kW	3.6kW
①	Liquid pipe connection	Ø6.35 Flare	
②	Gas pipe connection	Ø12.70 Flare	
③	Drain pipe connection	ID18 Hose	
④	Conduit for power supply & communication wiring	-	
⑤	Air inlet grille	-	
⑥	Air outlet louver	-	

3 Dimensional drawing

Console

2) AM056FNJDEH ***

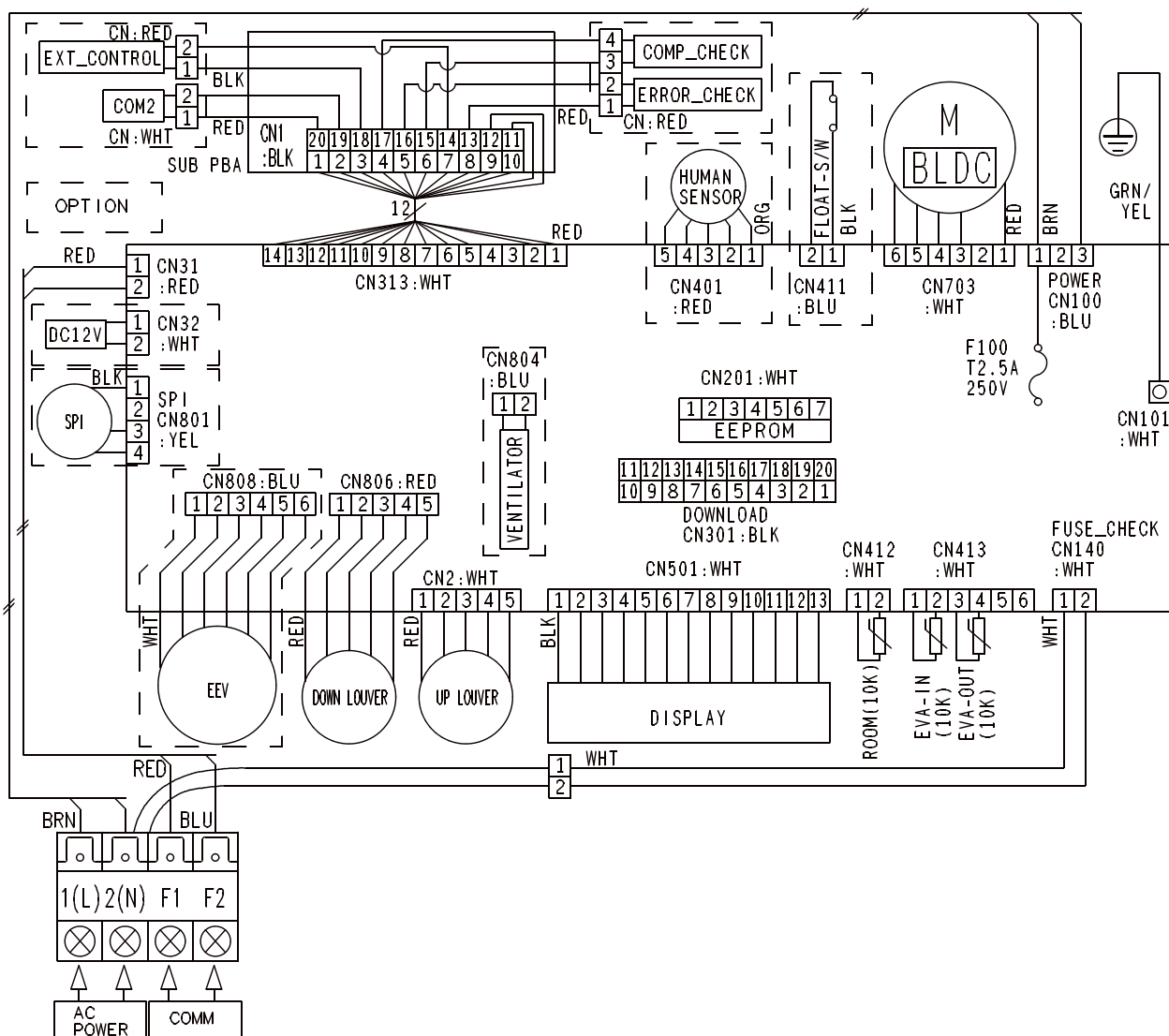
Unit:mm



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	-

4 Electrical wiring diagram

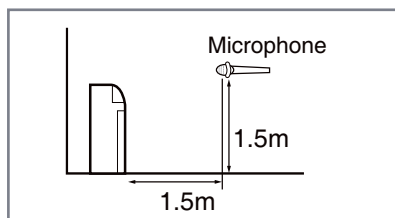
Console



5 Sound pressure level

Console

1) Operation sound level



Unit : dB(A)

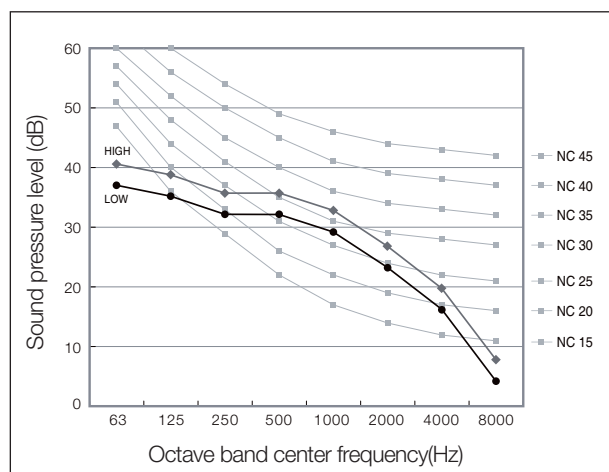
Model	High	Low
AM028FNJDEH***	38	34
AM036FNJDEH***	39	34
AM056FNJDEH***	43	37

☒ Note

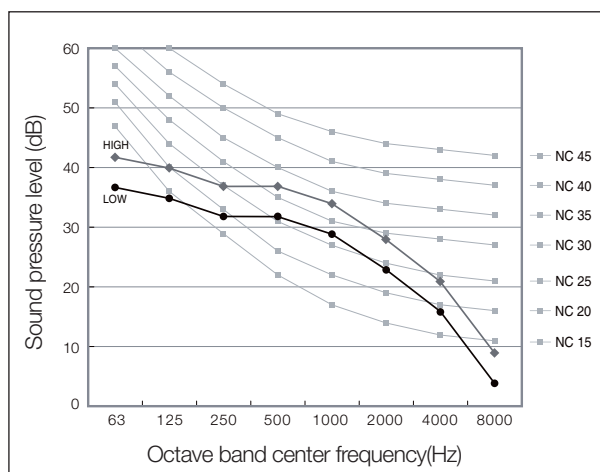
- ◆ These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- ◆ Operation sound level may differ depending on operation and ambient conditions.

2) NC curves

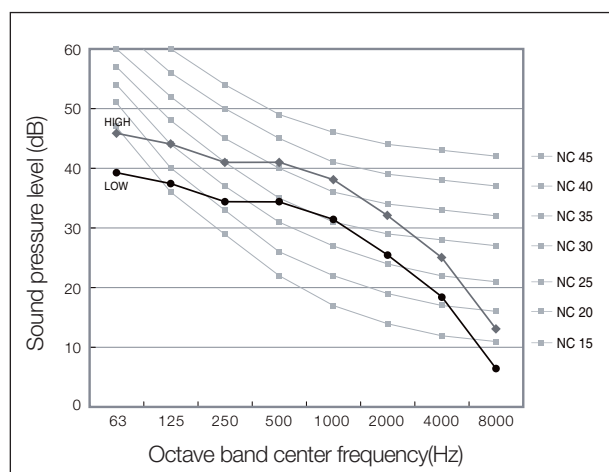
(1) AM028FNJDEH***



(2) AM036FNJDEH***



(3) AM056FNJDEH***



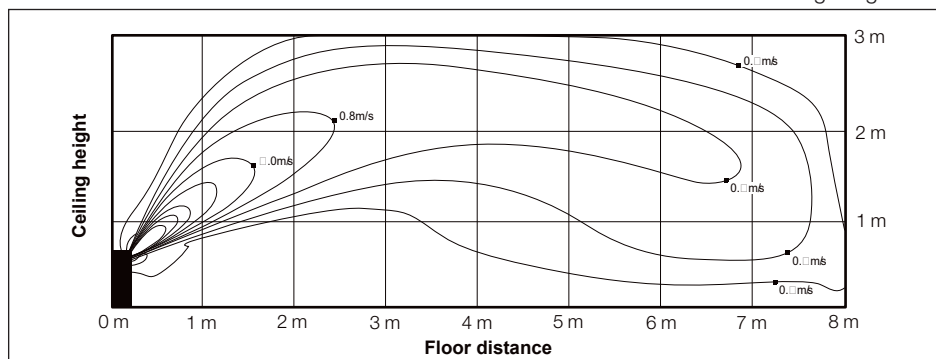
6 Temperature and air flow distribution

Console

1) AM036FNJDEH***

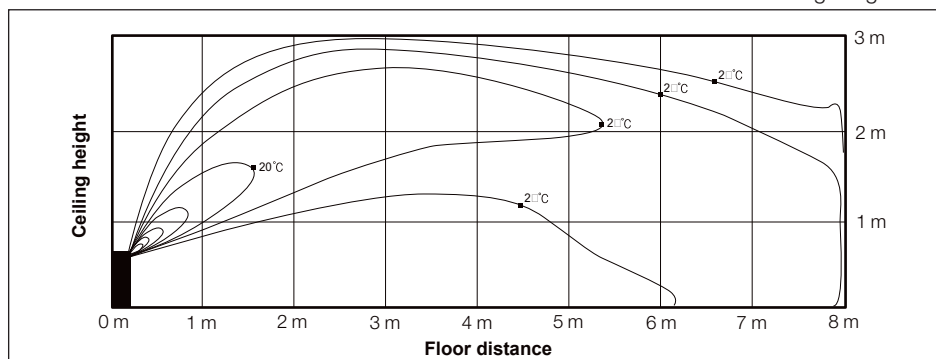
(1) Cooling air velocity distribution

◆ Discharge angle : 36°



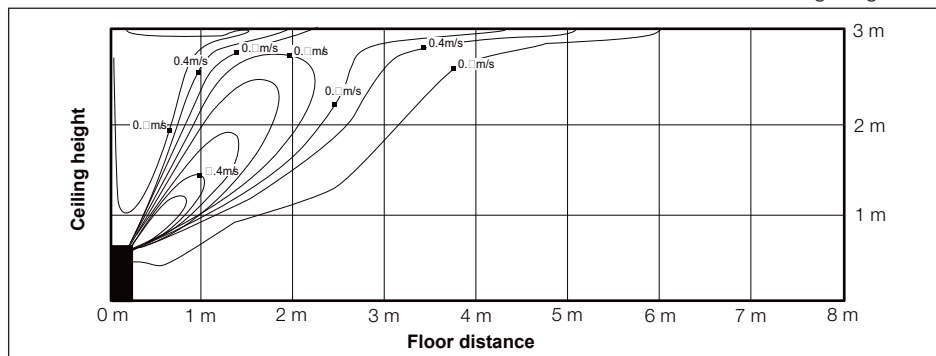
(2) Cooling temperature distribution

◆ Discharge angle : 36°



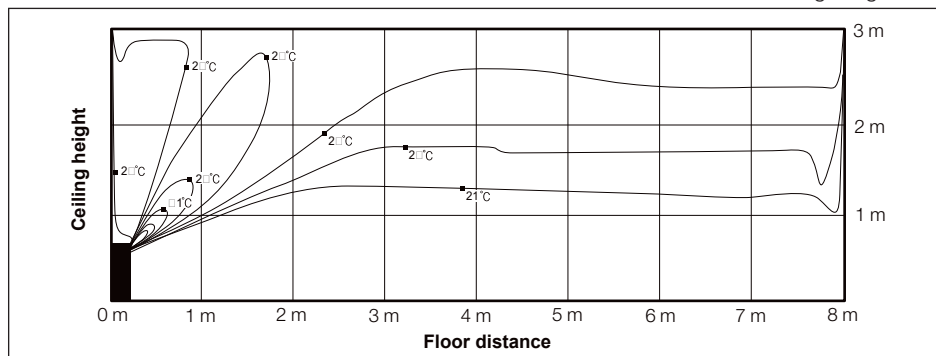
(3) Heating air velocity distribution

◆ Discharge angle : 54°



(4) Heating temperature distribution

◆ Discharge angle : 54°



Floor Standing

1 Specifications

2 Capacity table

3 Dimensional drawing

4 Electrical wiring diagram

5 Sound pressure level

6 Temperature and air flow distribution

1 Specifications

Floor Standing

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.

2 Capacity table

Floor Standing

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

2 Capacity table

Floor Standing

2) Heating

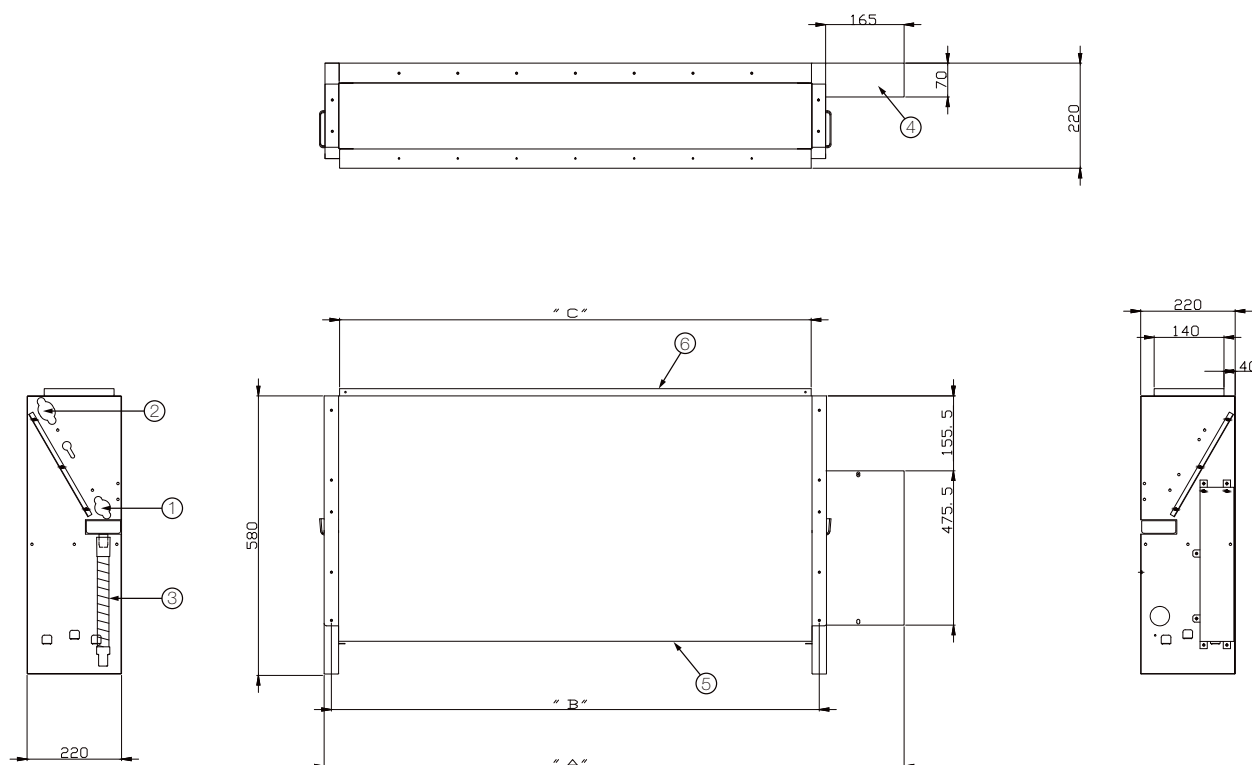
TC : Total Capacity(kW)

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

3 Dimensional drawing

Floor Standing

Unit:mm

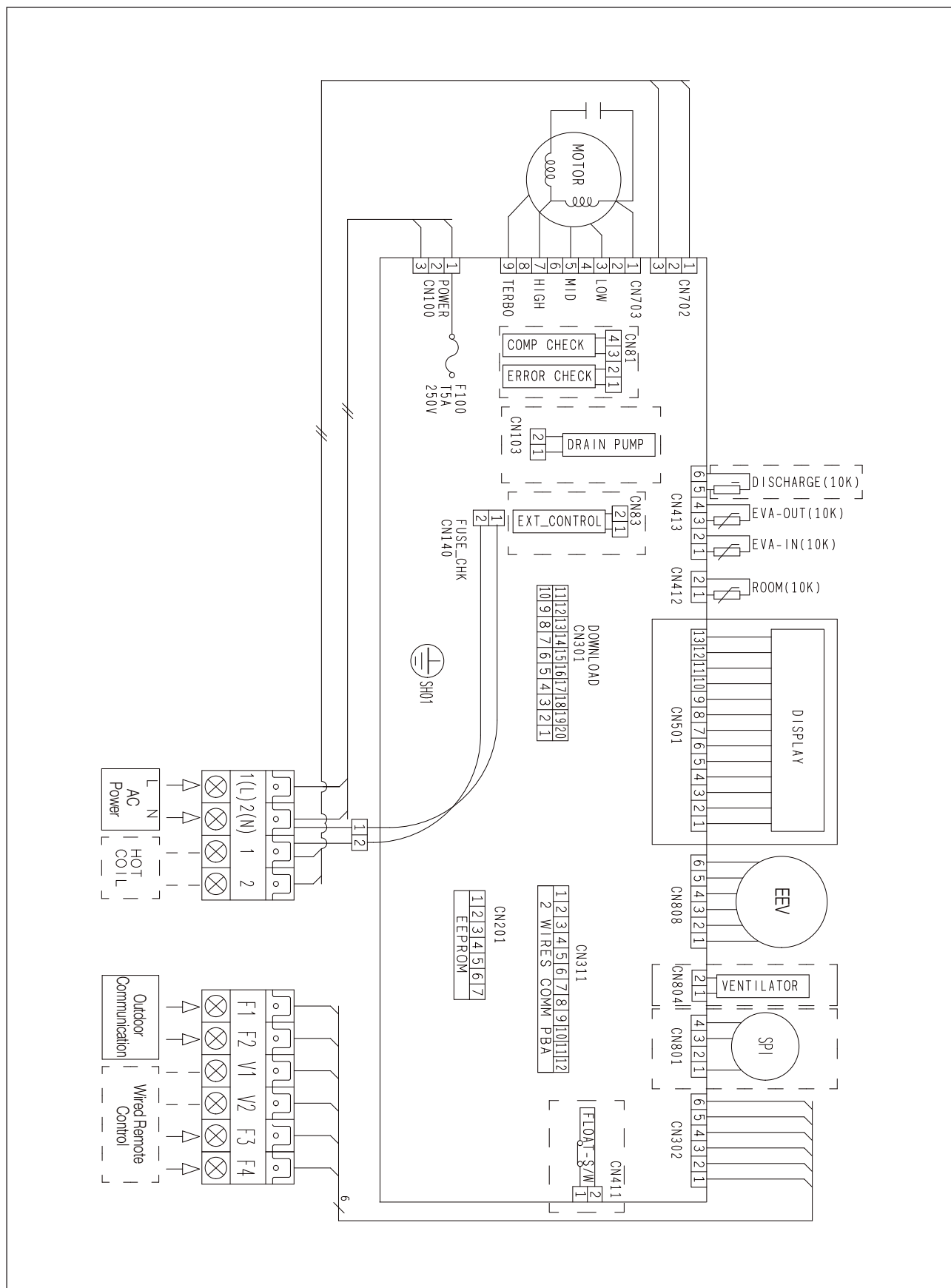


Model	A	B	C
AM036FNFDEH***	945	730	700
AM056/071FNFDEH***	1,225	1,010	980

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	-		

4 Electrical wiring diagram

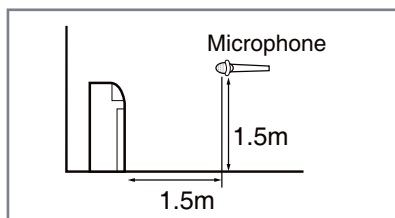
Floor Standing



5 Sound pressure level

Floor Standing

1) Operation sound level



Unit : dB(A)

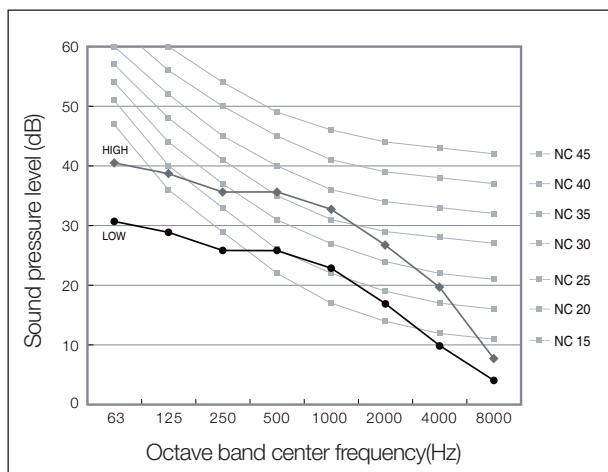
Model	High	Low
AM036FNFDEH***	37	27
AM056FNFDEH***	40	32
AM071FNFDEH***	40	32

✓ Note

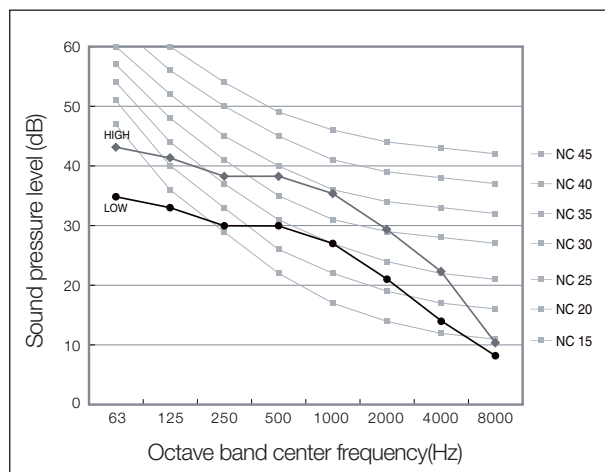
- ◆ These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- ◆ Operation sound level may differ depending on operation and ambient conditions.

2) NC curves

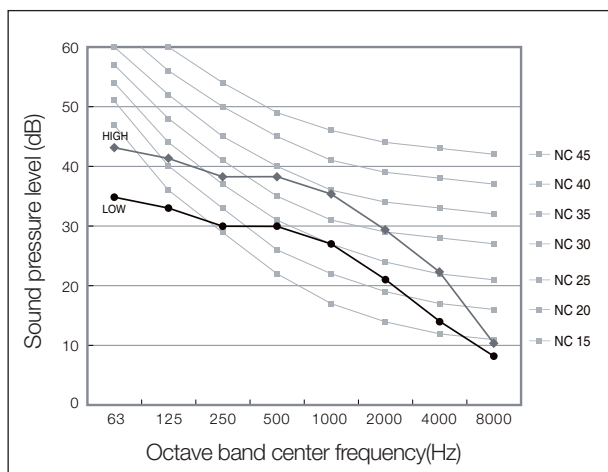
(1) AM036FNFDEH***



(2) AM056FNFDEH***



(3) AM071FNFDEH***



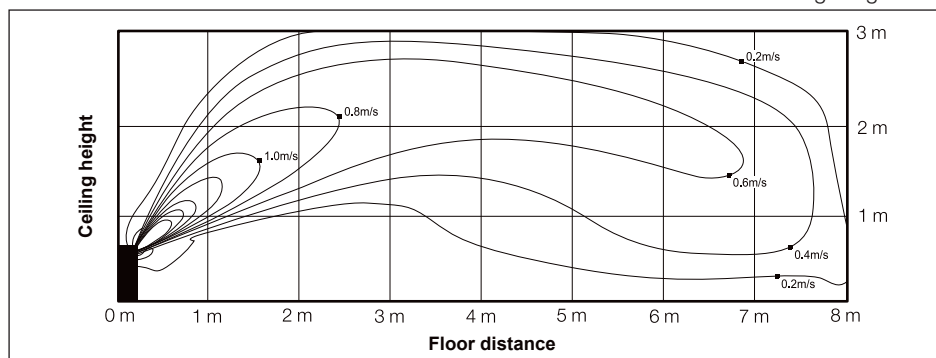
6 Temperature and air flow distribution

Floor Standing

1) AM036FNFDEH ***

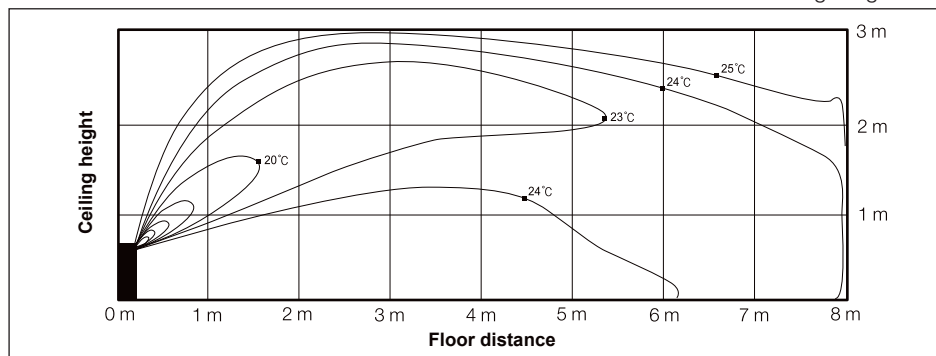
(1) Cooling air velocity distribution

◆ Discharge angle : 36°



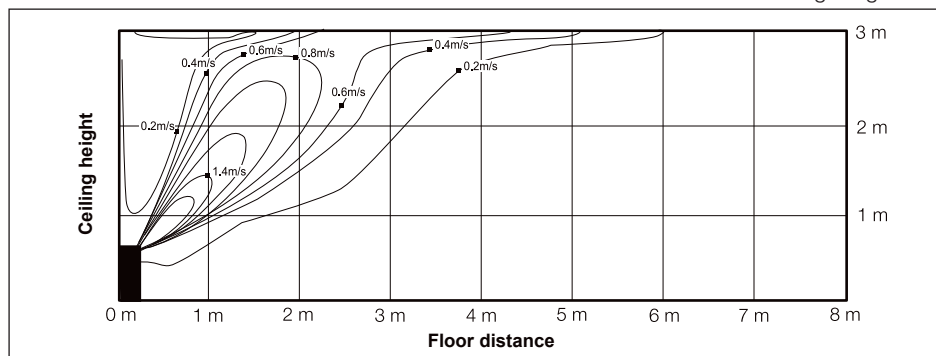
(2) Cooling temperature distribution

◆ Discharge angle : 36°



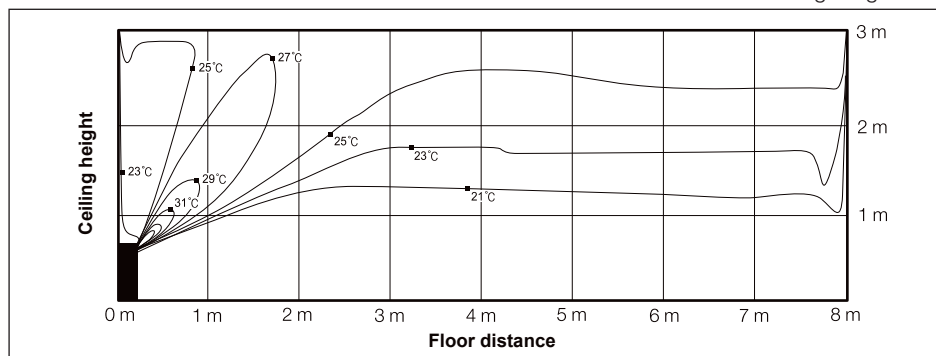
(3) Heating air velocity distribution

◆ Discharge angle : 54°



(4) Heating temperature distribution

◆ Discharge angle : 54°



OAP Duct

1 Specifications

2 Capacity table

3 Dimensional drawing

4 Electrical wiring diagram

5 Sound pressure level

6 Sound power level

7 Recommended operation range

1 Specifications

OAP Duct

Type				OAP Duct		OAP Duct		OAP Duct	
Model				AM140JNEPEH/EU		AM220JNEPEH/EU		AM280JNEPEH/EU	
Power Supply			Ø, #, V, Hz	1,2,220-240,50		1,2,220-240,50		1,2,220-240,50	
Mode			-	HP		HP		HP	
Performance	Capacity (Nominal)	Cooling	kW	14.00		22.40		28.00	
			Btu/h	47,800		76,400		95,500	
		Heating	kW	8.90		13.90		17.40	
			Btu/h	30,400		47,400		59,400	
Power	Power Input (Nominal)	Cooling	W	220.00		300.00		370.00	
		Heating		220.00		300.00		370.00	
	Current Input (Nominal)	Cooling	A	1.60		2.20		3.00	
		Heating		1.60		2.20		3.00	
Fan	Motor	Type	-	Sirocco Fan		Sirocco Fan		Sirocco Fan	
		Output x n	w	183 x 1		400 x 1		400 x 1	
	Air Flow Rate	High	CMM	18.00		28.00		35.00	
			l/s	300.00		466.67		583.33	
	External Pressure	Min/Std/Max	mmAq	5.00 / 20.39 / 25.00		10.00 / 23.45 / 25.00		10.00 / 25.49 / 27.50	
			Pa	49.00 / 199.82 / 245.00		98.00 / 229.81 / 245.00		98.00 / 249.80 / 269.50	
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		19.05		22.22	
			Ø, inch	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)	
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(O)		EEV(O)		EEV(O)	
Sound	Pressure	High	dB(A)	42.0		46.0		47.0	
	Power	Cooling		63.0		64.0		68.0	
Dimension	Net Weight		kg	51.00		85.00		85.00	
	Shipping Weight		kg	61.00		95.00		95.00	
	Net Dimensions (WxHxD)		mm	1,110 x 390 x 650		1,240 x 470 x 1,040		1,240 x 470 x 1,040	
	Shipping Dimensions (WxHxD)		mm	1,335 x 512 x 829		1,507 x 558 x 1,155		1,507 x 558 x 1,155	
Panel Size	Panel model		-	-		-		-	
	Panel Net Weight		kg	-		-		-	
	Shipping Weight		kg	-		-		-	
	Net Dimensions (WxHxD)		mm	-		-		-	
	Shipping Dimensions (WxHxD)		mm	-		-		-	
Additional Accessories	Drain Pump	Drain Pump	- / Model	MDP-N047SNC0D		MDP-N047SNC1D		MDP-N047SNC1D	
		Max. lifting Height / Displacement	mm/liter/h	-		-		-	
	Air Filter		-	-		-		-	

- Specifications may be subject to change without prior notice.

- Nominal cooling capacities are based on;

Outdoor temperature : 35°C DB, 28°C WB, Refrigerant pipe length : 7.5m, Level differences : 0m

Factory setting temperature for cooling mode : 18°C

- Nominal heating capacities are based on;

Outdoor temperature : 0°C DB, -2.9°C WB, Refrigerant pipe length : 7.5m, Level differences : 0m

Factory setting temperature for heating mode : 25°C

- Sound pressure was acquired in a dead room. Thus actual noise level may be different depending on the installation conditions.

- These products contain R410A which is fluorinated greenhouse gas.

2 Capacity table

OAP Duct

1) Cooling

Capacity Index	Outdoor Air Temperature (°C, DB)	Outdoor Air Temperature (°C, WB)																	
		17		17		20		23		26		28		30		32		36	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
140	20	3.7	2.7	3.9	2.3														
	22	3.7	2.9	3.9	2.5	5.2	2.1												
	25	3.7	3.0	3.9	2.6	5.2	2.6	6.8	2.6										
	27			3.8	3.3	5.2	3.4	6.8	3.4										
	29					5.2	4.2	6.8	4.1	11.1	4.2								
	31					5.1	4.8	6.7	4.8	11.1	4.9	14.2	5.0						
	33					5.1	5.1	6.7	5.5	11.0	5.6	14.0	5.6	16.3	5.3				
	35							6.7	6.3	11.0	6.4	14.0	6.4	16.2	5.9	17.5	5.3		
	37							6.6	6.6	10.8	6.8	13.3	6.8	15.2	6.2	16.3	5.6	16.8	3.7
	40									10.4	6.9	11.4	7.0	11.9	6.1	13.1	5.6	13.4	3.8
	45									9.7	7.4	10.4	7.3	10.7	6.3	11.6	5.8	12.0	4.0
224	20	5.7	4.2	6.1	3.5														
	22	5.7	4.4	6.1	3.8	8.2	3.3												
	25	5.7	4.6	6.1	4.1	8.2	4.1	10.8	4.2										
	27			6.1	5.2	8.1	5.3	10.7	5.3										
	29					8.1	6.4	10.5	6.4	17.6	6.6								
	31					8.0	7.5	10.5	7.6	17.6	7.7	22.6	7.8						
	33					8.0	8.0	10.6	8.7	17.5	8.9	22.4	9.0	26.2	8.5				
	35							10.6	9.8	17.5	10.0	22.4	10.2	26.2	9.5	27.8	8.3		
	37							10.6	10.5	17.2	10.7	21.4	10.8	24.4	9.8	16.1	8.8	26.8	5.8
	40									16.7	11.0	18.2	11.1	19.0	9.6	21.0	8.8	21.4	6.0
	45									15.5	11.7	16.6	11.6	17.2	10.0	18.5	9.2	19.2	6.3
280	20	7.1	5.2	7.6	4.4														
	22	7.1	5.5	7.6	4.8	10.3	4.1												
	25	7.1	5.8	7.6	5.1	10.2	5.2	13.5	5.2										
	27			7.6	6.5	10.1	6.6	13.4	6.6										
	29					10.1	8.0	13.4	8.1	22.0	8.2								
	31					10.0	9.4	13.3	9.5	21.9	9.7	28.2	9.8						
	33					10.0	10.0	13.3	10.9	21.9	11.1	28.0	11.2	32.8	10.6				
	35							13.2	12.3	21.8	12.5	28.0	12.7	32.7	11.8	34.8	10.4		
	37							13.2	13.2	21.6	13.4	26.7	13.6	30.5	12.3	32.7	11.1	33.5	7.3
	40									20.8	13.8	22.8	13.9	23.7	12.1	26.2	11.0	26.8	7.5
	45									19.4	14.7	20.8	14.6	21.5	12.6	23.2	11.5	24.0	7.9

2) Heating

Capacity Index	Outdoor Air Temperature (°C, DB)	Outdoor Air Temperature (°C, WB)									
		-7	-5	-2.9	0	2	4	6	10	14	
		TC	TC	TC	TC	TC	TC	TC	TC	TC	
140	-5	9.9	9.9								
	0			8.9							
	3			7.9	7.9	7.9					
	7					6.4	6.4	6.4			
	11						5.0	5.0	5.0		
	15							3.6	3.6	3.6	
140	-5	15.5	15.5								
	0			13.9							
	3			12.2	12.2	12.2					
	7					10.0	10.0	10.0			
	11						7.8	7.8	7.8		
	15							5.6	5.6	5.6	
140	-5	19.2	19.2								
	0			17.4							
	3			15.3	15.3	15.3					
	7					12.5	12.5	12.5			
	11						9.8	9.8	9.8		
	15							7.0	7.0	7.0	

- Capacity Table data may be subject to change without prior notice.

- Tested under following conditions

. Temperature setting for cooling : 18°C

. Temperature setting for heating : 25°C

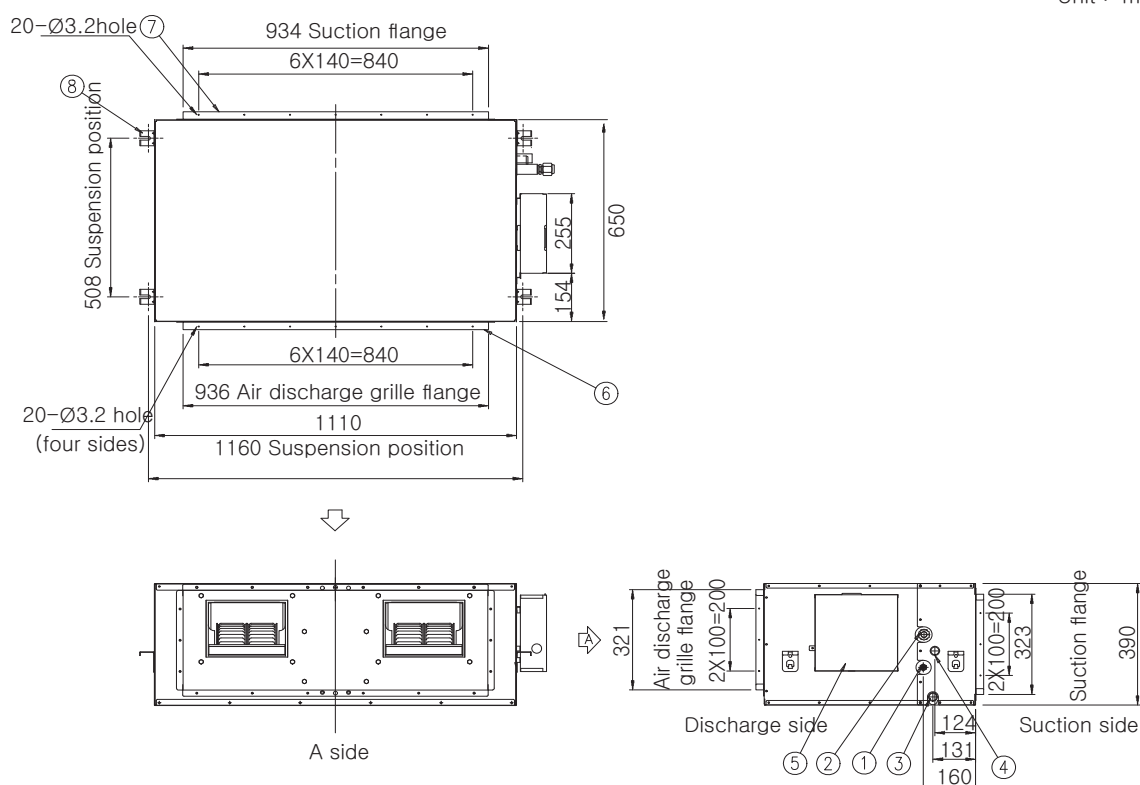
- Heating capacity was tested under non-frost condition.

3 Dimensional drawing

OAP Duct

AM140JNEPEH/EU

Unit : mm



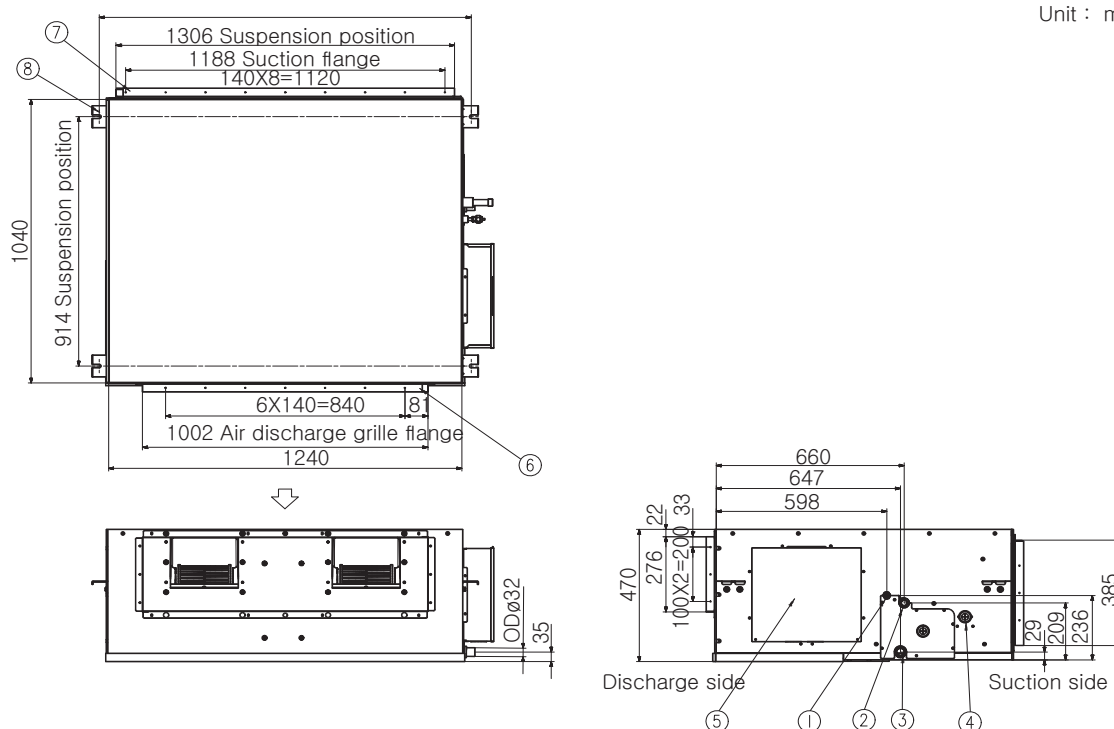
No.	Name	Description
1	Diameter of liquid pipe	ø9.52
2	Diameter of air pipe	ø15.88
3	Diameter of drain pipe	VP25 (OD ø32, ID ø25)
4	Diameter of drain pipe (Option drain pump)	VP25 (OD ø32, ID ø25)
5	Power supply / Communication connection	
6	Air discharge grille flange	
7	Suction flange	
8	Hook	ø9.52 or M10

3 Dimensional drawing

OAP Duct

AM220JNEPEH/EU, AM280JNEPEH/EU

Unit : mm

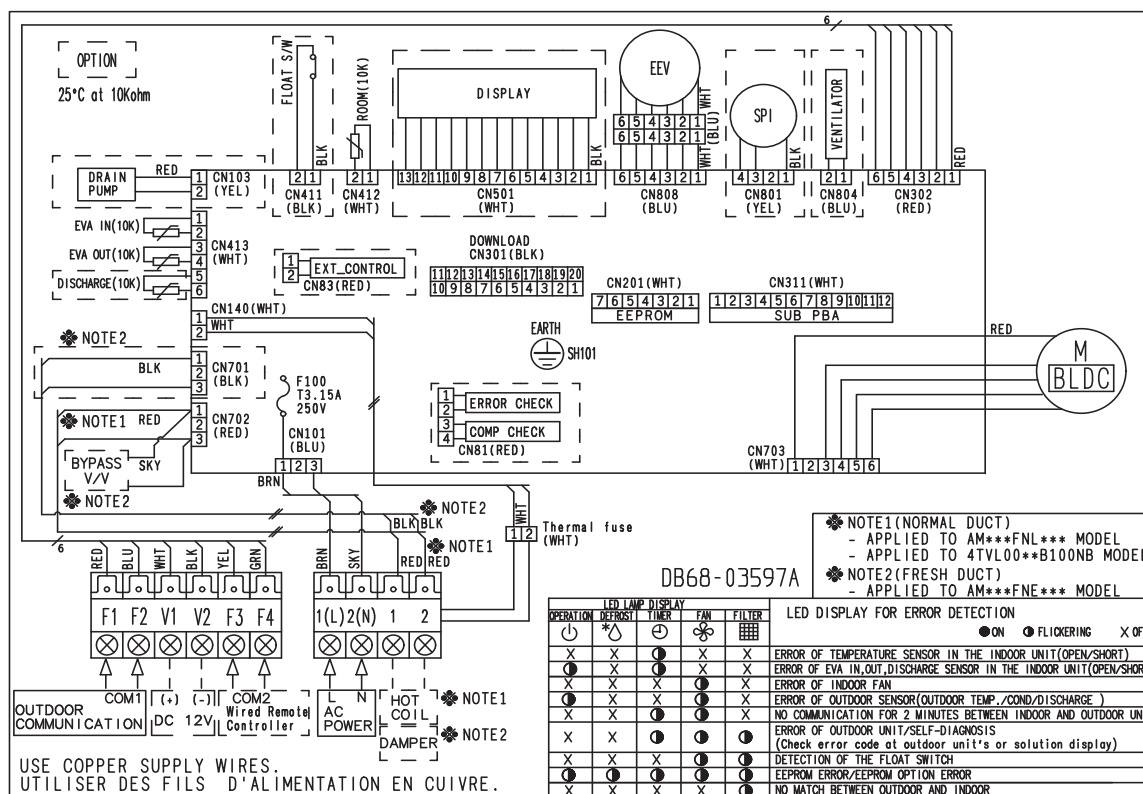


No.	Name	Description
1	Diameter of liquid pipe	ø9.52
2	Diameter of air pipe	ND220E** : ø19.05 ND280E** : ø22.22
3	Diameter of drain pipe	VP25 (OD ø32, ID ø25)
4	Diameter of drain pipe (Optional drain pump)	VP25 (OD ø32, ID ø25)
5	Power supply / Communication connection	
6	Air discharge grille flange	
7	Suction flange	
8	Hook	ø9.52 or M10

4 Electrical wiring diagram

OAP Duct

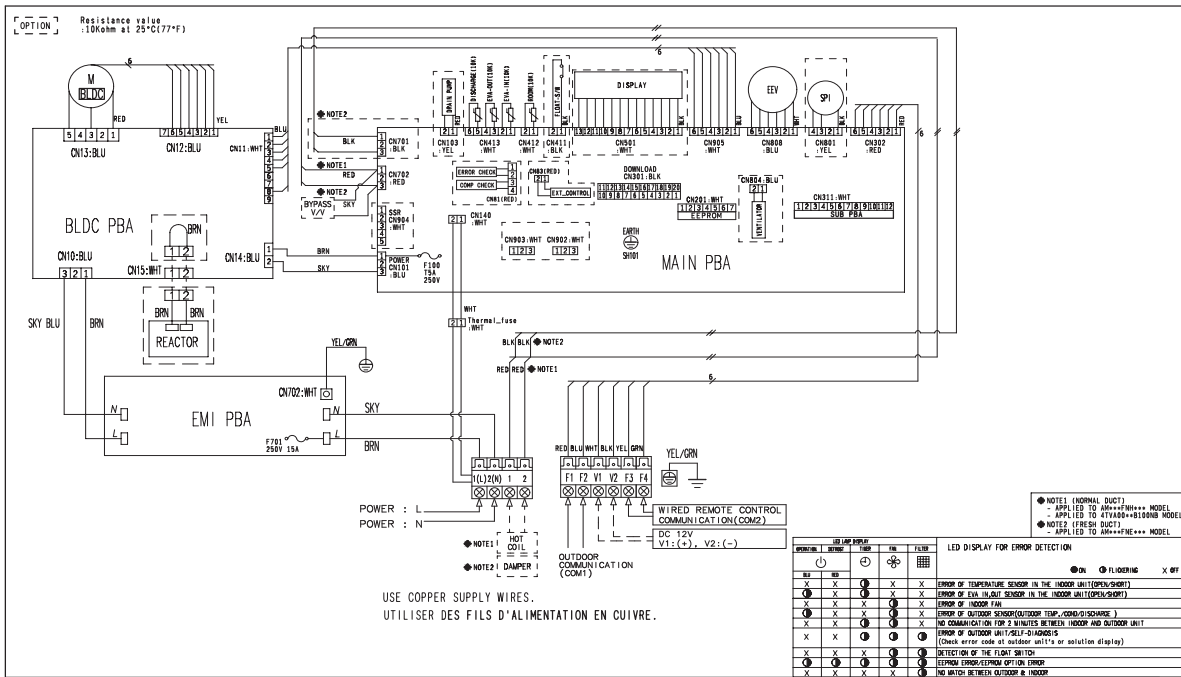
AM140JNEPEH/EU



4 Electrical wiring diagram

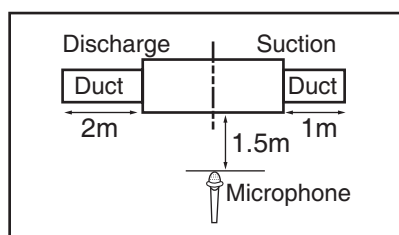
OAP Duct

AM220JNEPEH/EU, AM280JNEPEH/EU



5 Sound pressure level

OAP Duct



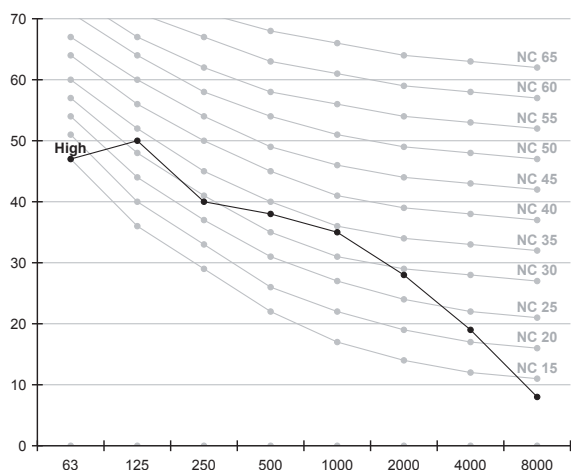
Model	Unit: dB(A)	
	High	Low
AM140JNEPEH/EU	42.0	
AM220JNEPEH/EU	46.0	
AM280JNEPEH/EU	47.0	

Note

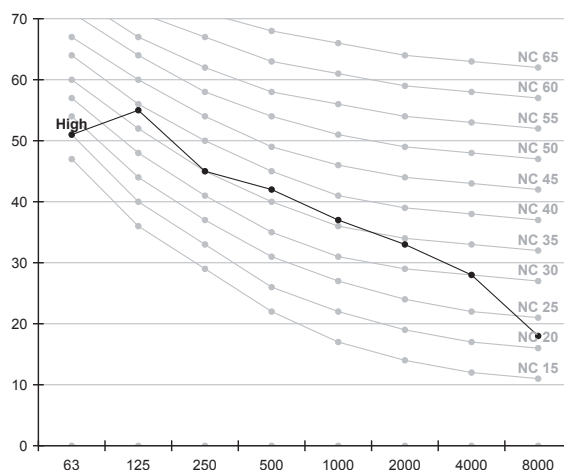
- These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a factors such as the construction of the particular room where the equipment is installed.
- Operation sound level may differ depending on operation and ambient conditions.

NC curve

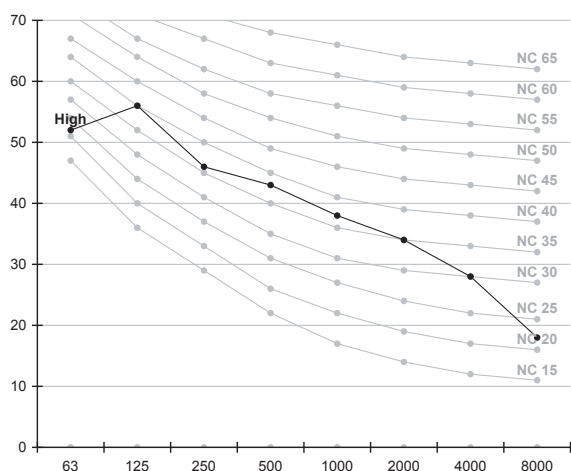
1) AM140JNEPEH/EU



2) AM220JNEPEH/EU



3) AM280JNEPEH/EU



6 Sound power level

OAP Duct

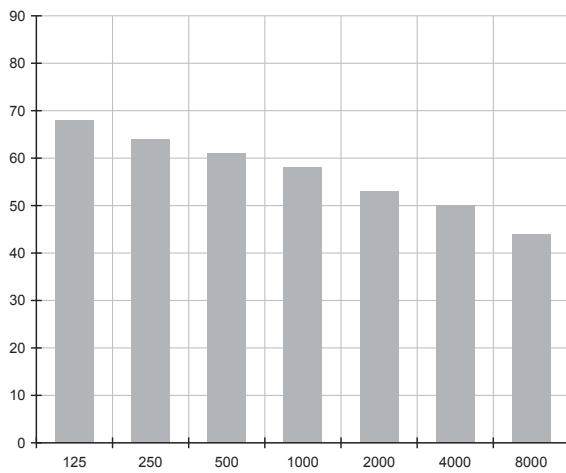
Note

- dBA = A-Weighted sound power level.
- Reference power : 1pW
- Measured according to ISO 3741.

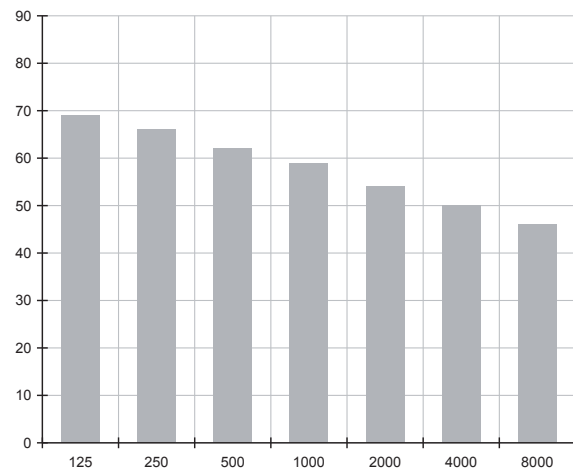
Unit: dB(A)

Model	Power
AM140JNEPEH/EU	63.0
AM220JNEPEH/EU	64.0
AM280JNEPEH/EU	68.0

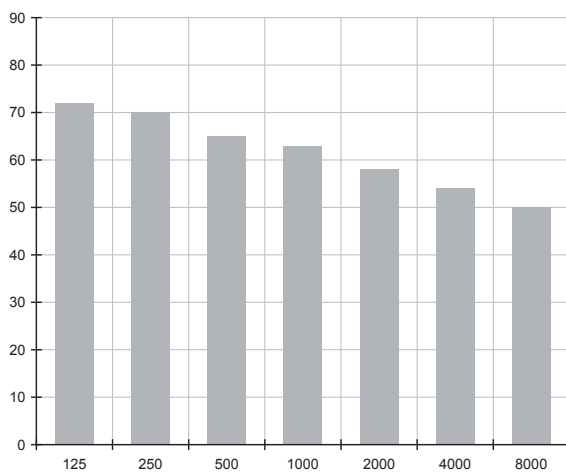
1)AM140JNEPEH/EU



2)AM220JNEPEH/EU



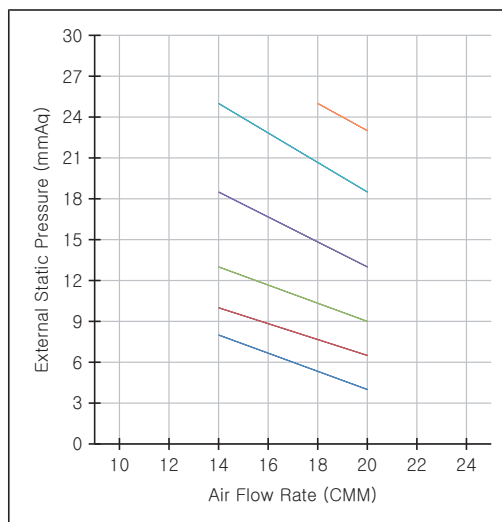
3)AM280JNEPEH/EU



7 Recommended operation range

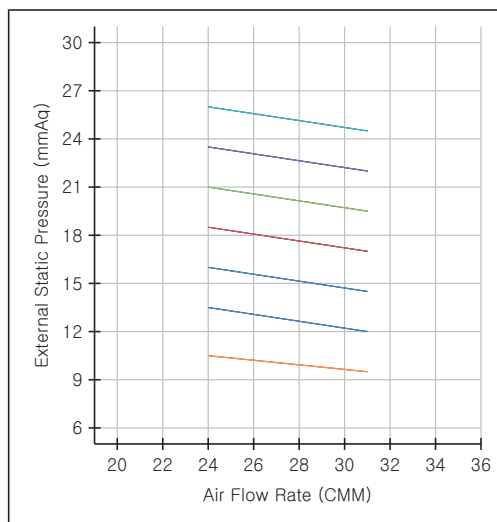
OAP Duct

1) AM140JNEPEH/EU



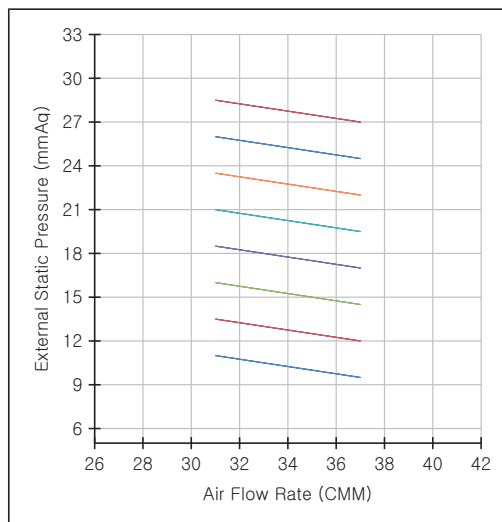
External Static Pressure (mmAq)	Option Code
4~8	01B064-1B490B-208C8C-333000
6.5~10	01B064-1B4A51-208C8C-333000
9~13	01B064-1B4AA6-208C8C-333000
13~18.5	01B064-1B4E2E-208C8C-333000
18.5~25	01B064-1B4F95-208C8C-333000
23~25	01B064-1B4FFB-208C8C-333000

2) AM220JNEPEH/EU



External Static Pressure (mmAq)	Option Code
9.5~10.5	01B064-194064-231616-333000
12~13.5	01B064-194075-231616-333000
14.5~16	01B064-1940CA-231616-333000
17~18.5	01B064-1940CA-231616-333000
19.5~21	01B064-1940EC-231616-333000
22~23.5	01B064-19441F-231616-333000
24.5~26	01B064-194530-231616-333000

3) AM280JNEPEH/EU



External Static Pressure (mmAq)	Option Code
9.5~10.5	01B064-194064-231C1C-333000
12~13.5	01B064-194086-231C1C-333000
14.5~16	01B064-1940A8-231C1C-333000
17~18.5	01B064-1940DB-231C1C-333000
19.5~21	01B064-19440E-231C1C-333000
22~23.5	01B064-194530-231C1C-333000
24.5~26	01B064-194550-231C1C-333000
27~28.5	01B064-194550-231C1C-333000

Note

ERV Plus

1 Specifications

2 Capacity table

3 Dimensional drawing

4 Electrical wiring diagram

5 Sound pressure level

6 Recommended operation range

1 Specifications

ERV Plus

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	1, 2, 220~240, 50
Performance	Temp. Exchange Efficiency	Cooling	Turbo	-	70	70
			high	-	70	70
			low	-	74	74
		Heating	Turbo	-	75	75
			high	-	75	75
			low	-	79	79
	Effective Enthalpy Exchange Efficiency	Cooling	Turbo	-	60	62
			high	-	60	62
			low	-	66	68
		Heating	Turbo	-	73	75
			high	-	73	75
			low	-	79	81
Outside Air Processing Capacity		Cooling *1) (DX Coil/Element)	-	5.1(3.6/1.5)	10.5(7.1/3.4)	
		Heating *2) (DX Coil/Element)	-	6.5(4.0/2.5)	13.2(8.0/5.2)	
Fan	Airflow rate	Turbo/High/Low(UL)	CMH	500/500/360	1000/1000/690	
			l/s	8333/8333/6000	16666/16666/11500	
	External Static pressure	Turbo/High/Low	mmAq	16.3/10.2/8.7	15.3/9.2/7.6	
			Pa	160/100/85	150/90/75	
	Motor	Type	-	BLDC	BLDC	
		Output	W	180	70	
		Number of unit	EA	2	2	
Power		Power Input	Turbo	-	220	510
	high		W	140	350	
	low		-	90	235	
	Current Input	Turbo	-	1.70	3.70	
		high	A	1.00	2.40	
		low	-	0.60	1.60	
		Option Code			-	015617152380
Piping Connections	Liquid Pipe		Ø, mm	6.35	6.35	
			Ø, inch	1/4	1/4	
	Gas Pipe		Ø, mm	12.7	12.7	
			Ø, inch	1/2	1/2	
	Drain Pipe		Ø, mm	VP25 (OD32, ID25)	VP25 (OD32, ID25)	
			Ø, inch	VP25 (OD 1-1/4", ID 1")	VP25 (OD 1-1/4", ID 1")	
	Water Supply		Ø, mm	12.7	12.7	
Ø, inch			1/2	1/2		
Field Wiring	Power Source Wire		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	EEV	
Sound Pressure	Sound Level*4)	Turbo / High / Low	dB(A)	36 / 32 / 28	36 / 33 / 31	
Dimensions	Net Weight		kg	61.0	90.0	
	Shipping Weight		kg	75.2	107.5	
	Net Dimensions (W×H×D)		mm	1,553 x 270 x 1,000	1,763 x 340 x 1,135	
	Shipping Dimensions (W×H×D)		mm	1,847 x 349 x 1,300	2,027 x 428 x 1,424	
	Supply/Return/Exhaust/Outside Duct Flange (Ø)		mm	200	250	
Accessory	Air Filter		-	High Efficiency Filter(PP)	High Efficiency Filter(PP)	
Optional Accessory	Humidifier*3)	Type	-	Natural Evaporating Type	Natural Evaporating Type	
		Qty	EA	1	1	
		Amount	kg/h	2.7	5.4	
		Pressure Feed Water	MPa	0.02~0.49	0.02~0.49	
	S-Plasma ion kit		-	MSD-EAN1	MSD-EAN1	
	CO ₂ sensor		-	MOS-C1	MOS-C1	
	Humidity Sensor		-	Option	Option	
Ambient Condition	Around Unit		-	0~40°C DB, 80%RH or less	0~40°C DB, 80%RH or less	
	OA *5)		-	-15~40°C DB, 80%RH or less	-15~40°C DB, 80%RH or less	
	RA *5)		-	0~40°C DB, 80%RH or less	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.

2 Capacity table

ERV Plus

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)	
	14 (°C, WB)		16 (°C, WB)		18 (°C, WB)		19 (°C, WB)		20 (°C, WB)		22 (°C, WB)		24 (°C, WB)			
	DB	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

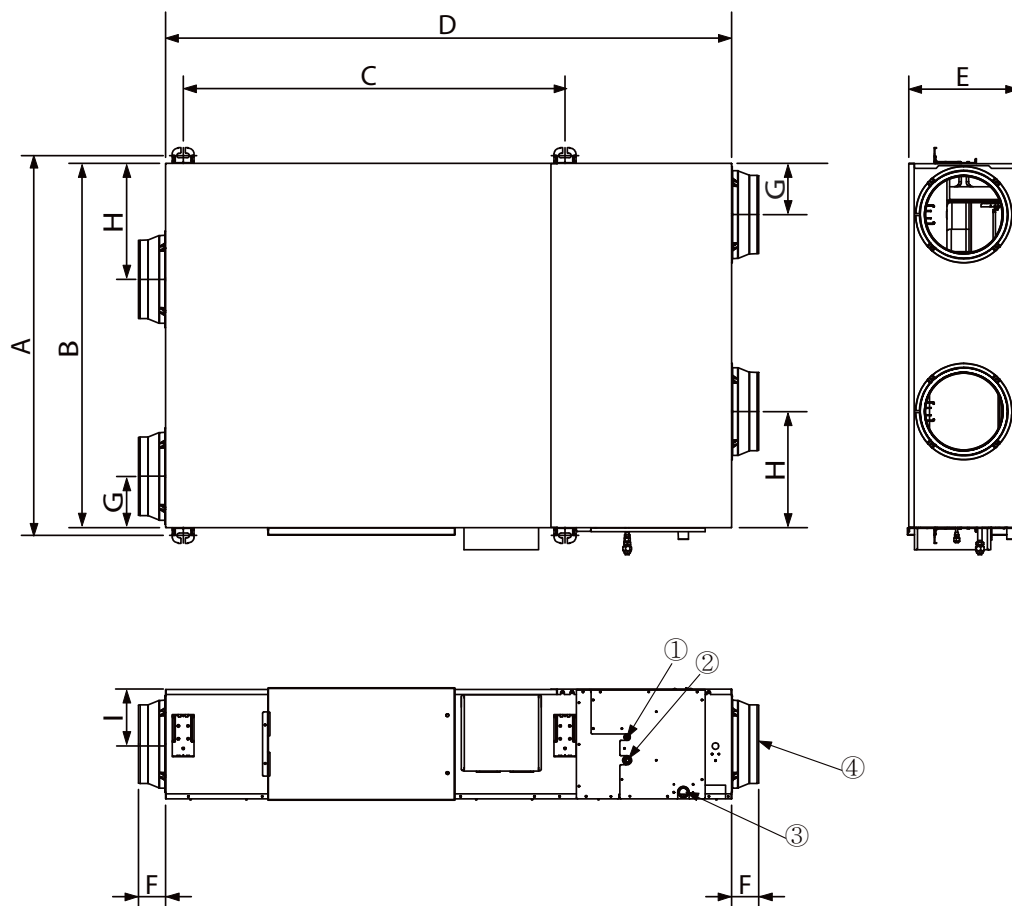
TC : Total Capacity(kW)

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

3 Dimensional drawing

ERV Plus

Unit:mm

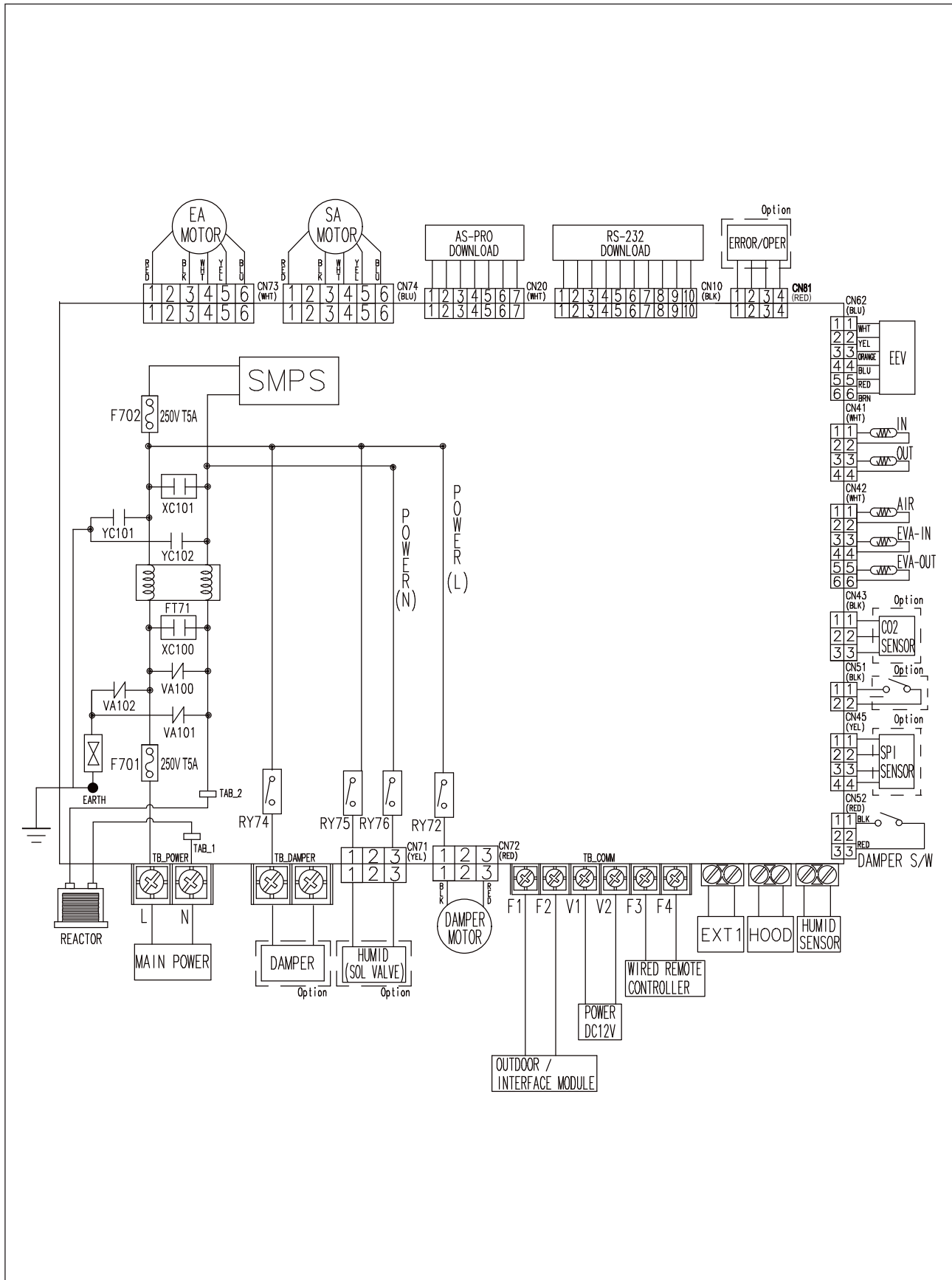


Model	A	B	C	D	E	F	G	H	I
AM050FNKDEH	1036	1000	987	1553	270	99	130	253	135
AM100FNKDEH	1183	1135	1189	1763	340	84	160	362	170

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

4 Electrical wiring diagram

ERV Plus

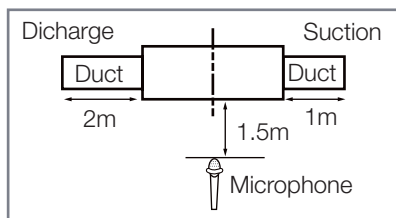


5 Sound pressure level

ERV Plus

1) Operation sound level

Unit : dB(A)



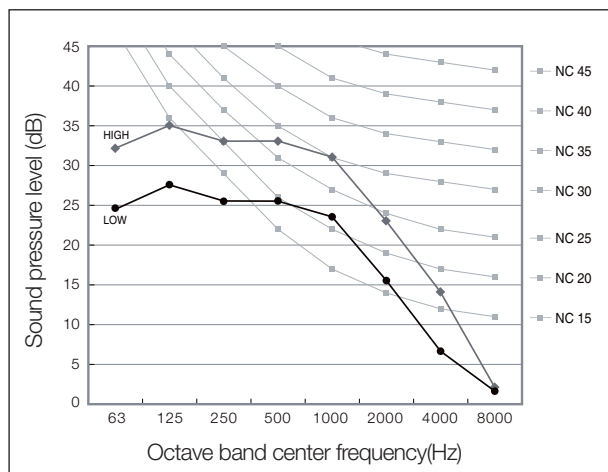
Model	Turbo	High	Low
AM050FNKDEH***	36	32	28
AM100FNKDEH***	36	33	31

✓ Note

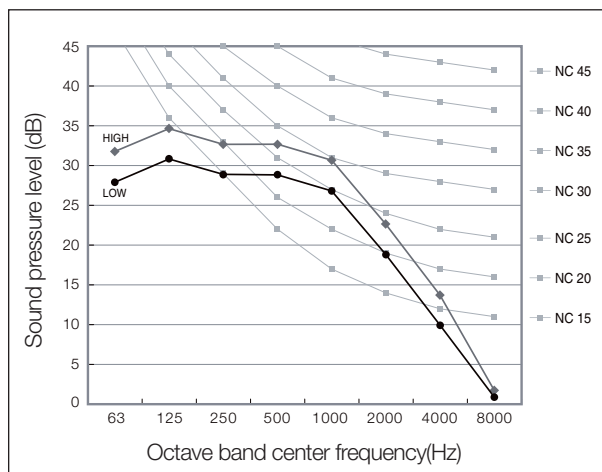
- ◆ These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- ◆ Operation sound level may differ depending on operation and ambient conditions.

2) NC curves

(1) AM050FNKDEH ***



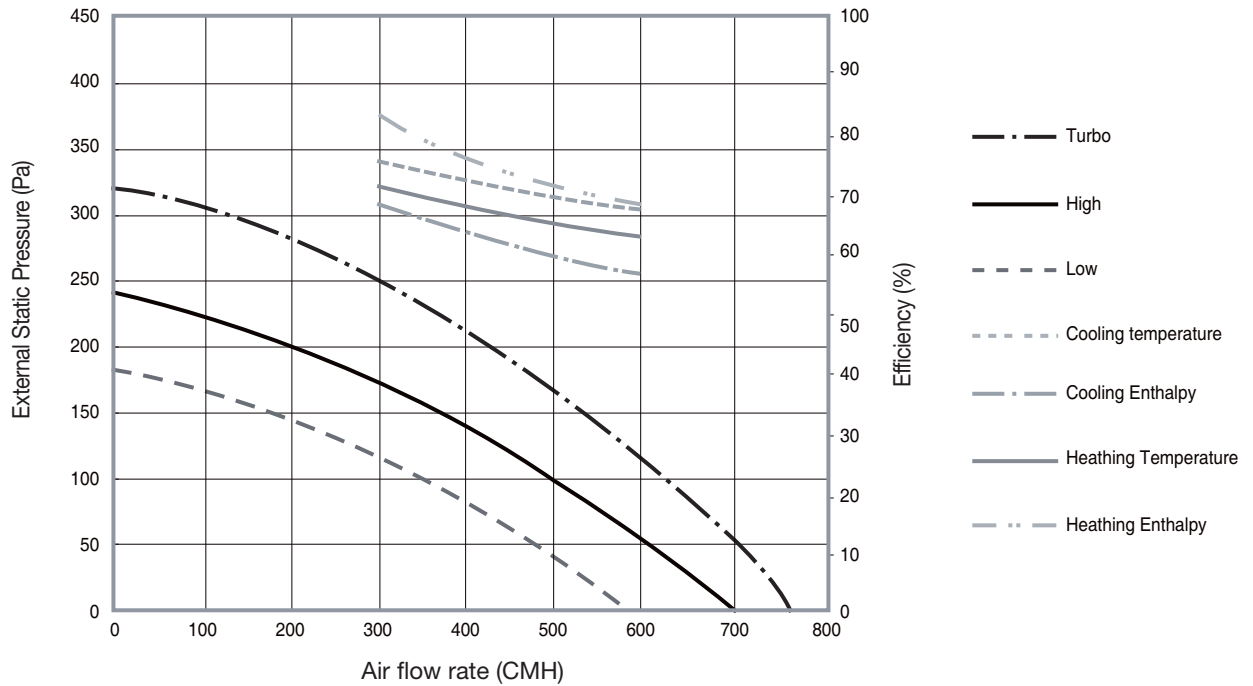
(2) AM100FNKDEH ***



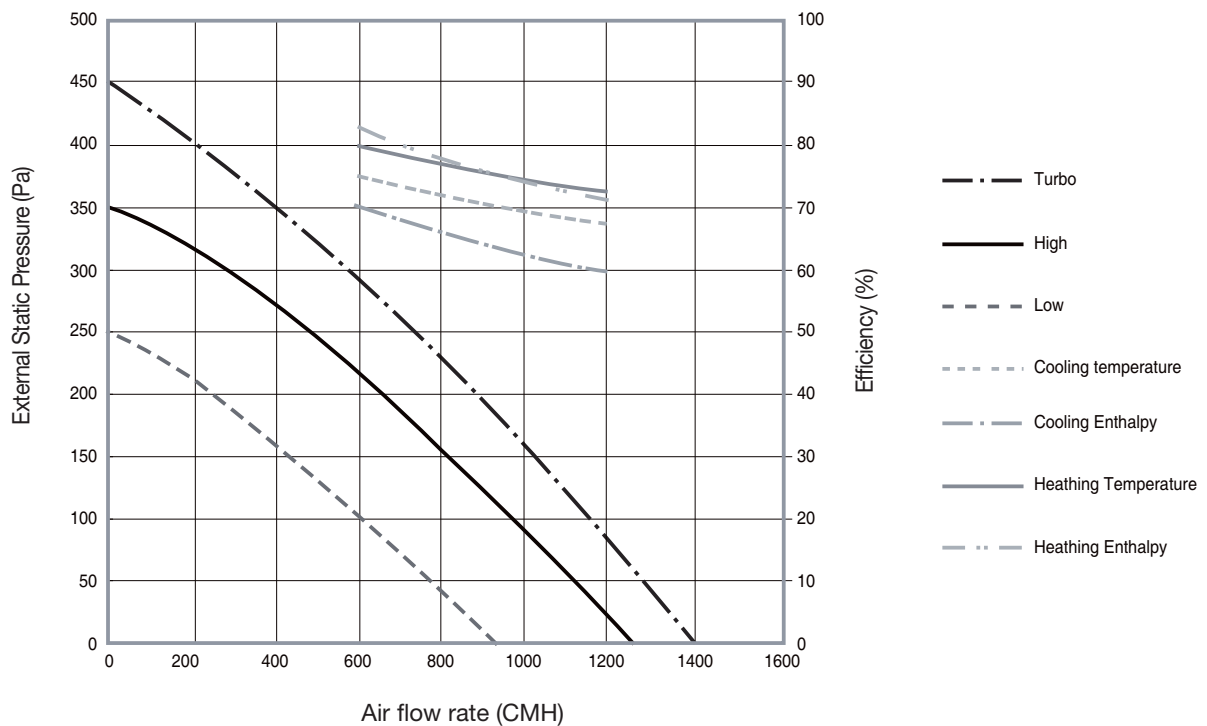
6 Recommended operation range

ERV Plus

(1) AM050FNKDEH***



(2) AM100FNKDEH***



Hydro HE

1 Specifications

2 Capacity table

3 Capacity & Power input correction

4 Operation range

5 Cycle diagram

6 Dimensional drawing

7 Electrical wiring diagram

8 Sound pressure level

9 Hydraulic performance

1 Specifications

Hydro HE

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 x 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 (WxHxD)		mm	518 x 627 x 330	518 x 627 x 330	518 x 627 x 330
	Shipping Dimensions (WxHxD)		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 ~ 35	-20 ~ 35	-20 ~ 35
		Hot Water (Main Cooling, HR)	℃	-20.0 ~ 35(43)	-20.0 ~ 35(43)	-20.0 ~ 35(43)
	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.

2 Capacity table

Hydro HE

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
44.8	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
44.8	40	27.4	35.1	41.4	44.3	47.1

2 Capacity table

Hydro HE

1) Heating

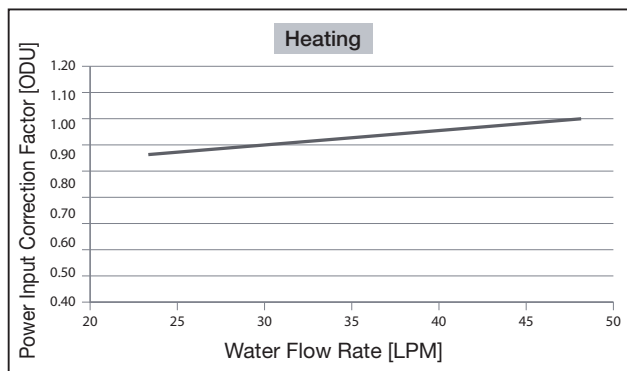
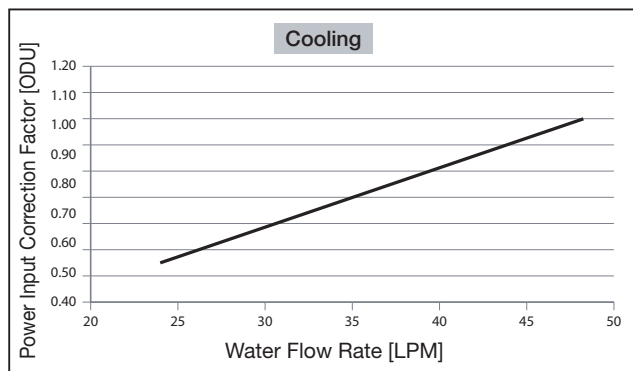
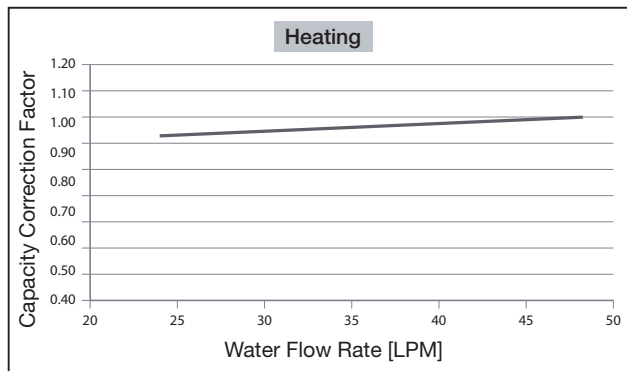
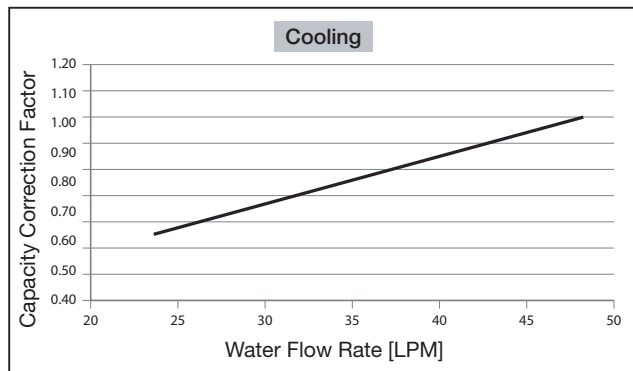
Capacity (kW)	Outdoor temperature (°C)		Water inlet temperature (°C)			
	DB	WB	20	30	40	45
16.0	-20.0	-20.2	12.4	11.7	7.2	4.7
	-18.4	-18.6	12.7	12.0	7.8	5.5
	-16.7	-17.0	13.0	12.2	8.3	6.1
	-15.0	-15.3	13.4	12.5	8.9	6.8
	-13.4	-13.8	13.7	12.8	9.4	7.4
	-11.7	-12.1	14.0	13.0	10.0	8.0
	-10.0	-10.5	14.3	13.3	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

3 Capacity & Power input correction

Hydro HE

1) By water flow rate

(1) AM160FNBDEH***



Cooling

Water flow Rate (LPM)	24.0	36.0	48.0
Capacity Correction Factor	0.66	0.83	1.00
Power Input Correction Factor [ODU]	0.55	0.78	1.00

Heating

Water flow Rate (LPM)	24.0	36.0	48.0
Capacity Correction Factor	0.92	0.96	1.00
Power Input Correction Factor [ODU]	0.87	0.94	1.00

◆ 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

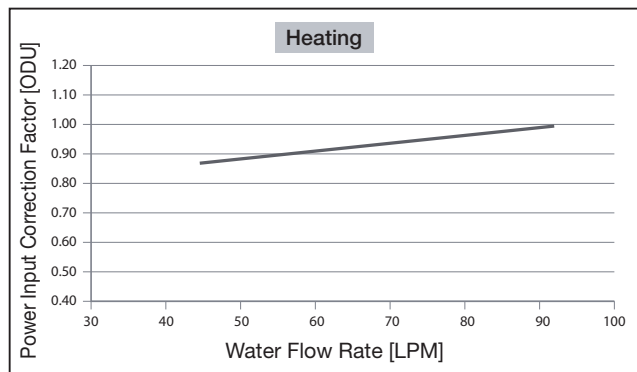
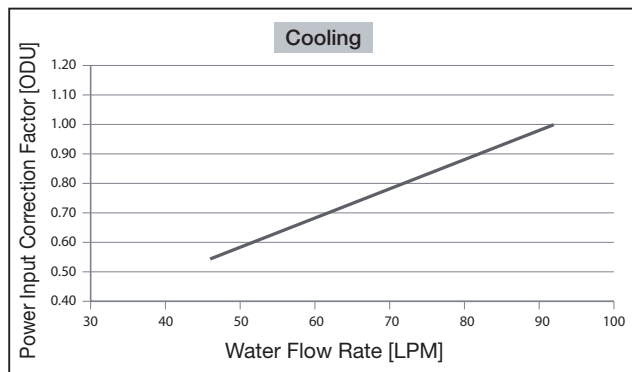
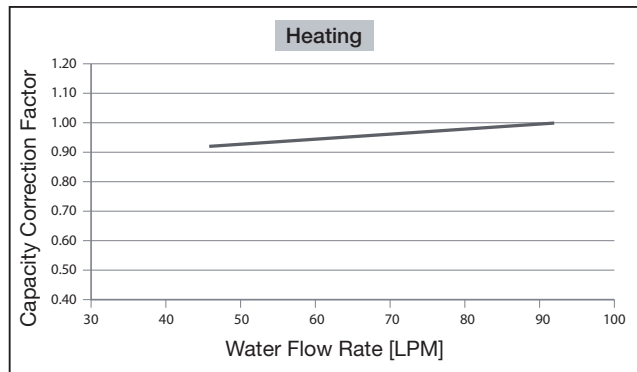
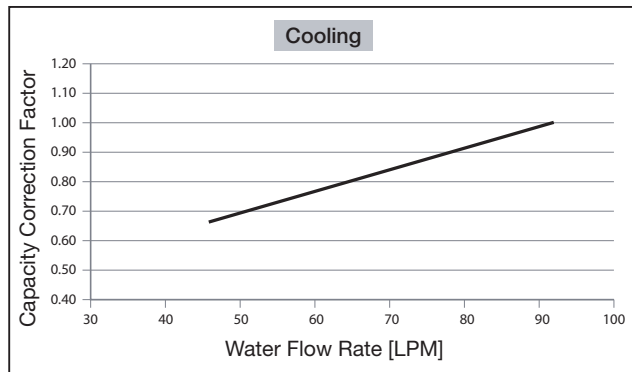
* Minimum flow rate of the Hydro unit is 50% of rated flow rate.

3 Capacity & Power input correction

Hydro HE

1) By water flow rate

(2) AM320FNBDEH***



Cooling

Water flow Rate (LPM)	46.0	69.0	92.0
Capacity Correction Factor	0.66	0.83	1.00
Power Input Correction Factor [ODU]	0.55	0.78	1.00

Heating

Water flow Rate (LPM)	46.0	69.0	92.0
Capacity Correction Factor	0.92	0.96	1.00
Power Input Correction Factor [ODU]	0.87	0.94	1.00

◆ 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

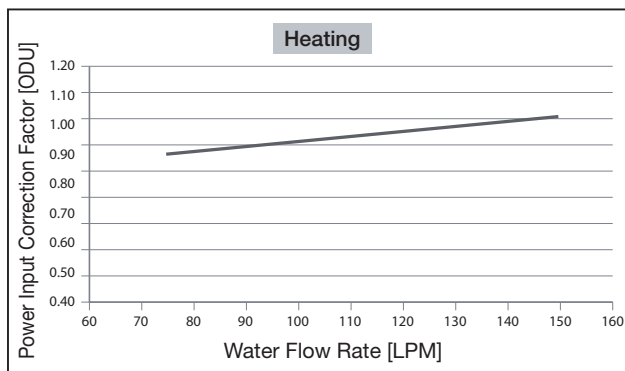
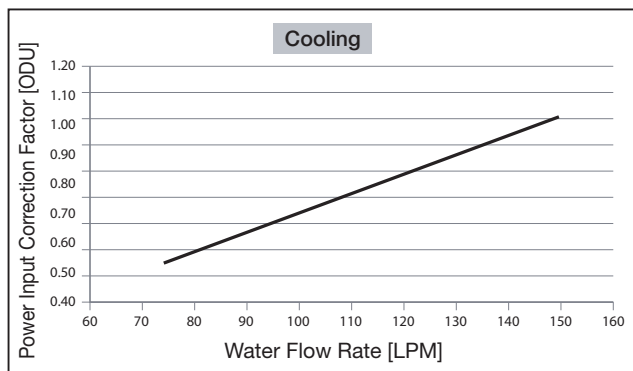
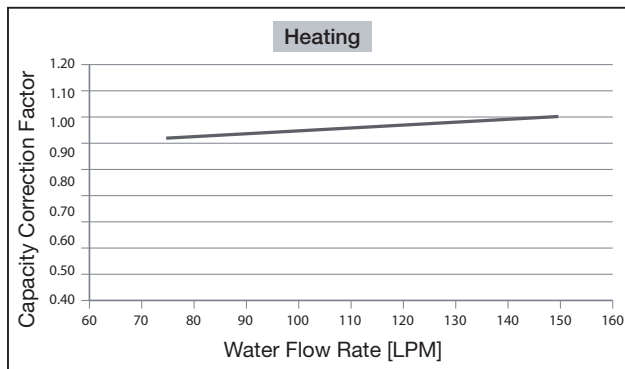
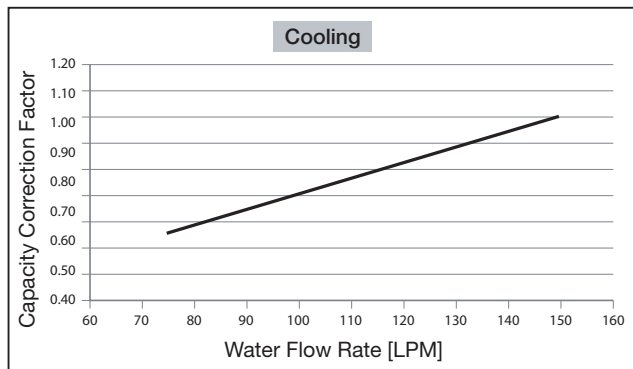
* Minimum flow rate of the Hydro unit is 50% of rated flow rate.

3 Capacity & Power input correction

Hydro HE

1) By water flow rate

(3) AM500FNBDEH***



Cooling

Water flow Rate (LPM)	75.0	112.5	150.0
Capacity Correction Factor	0.66	0.83	1.00
Power Input Correction Factor [ODU]	0.55	0.78	1.00

Heating

Water flow Rate (LPM)	75.0	112.5	150.0
Capacity Correction Factor	0.92	0.96	1.00
Power Input Correction Factor [ODU]	0.87	0.94	1.00

◆ Flow rate by ΔT

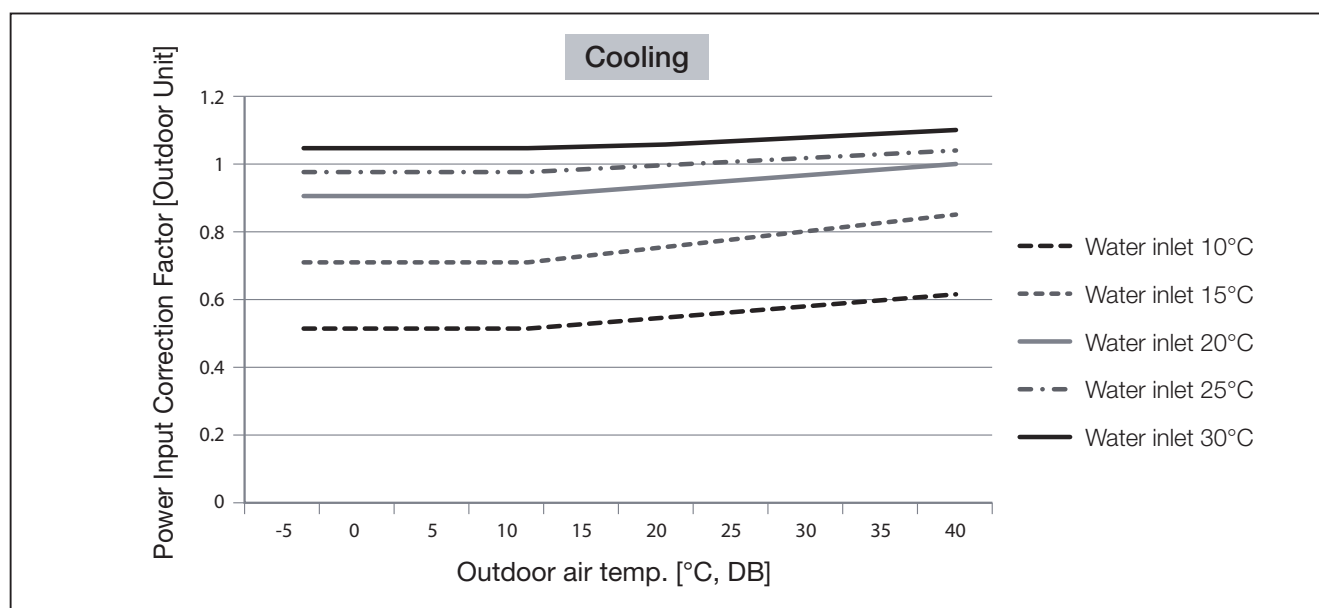
Flow Rate [LPM]	5HP	10HP	16HP
$\Delta T=10^{\circ}\text{C}$	24.0	46.0	75.0
$\Delta T=5^{\circ}\text{C}$	48.0	92.0	150.0

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

3 Capacity & Power input correction

Hydro HE

2) By outdoor air temperature



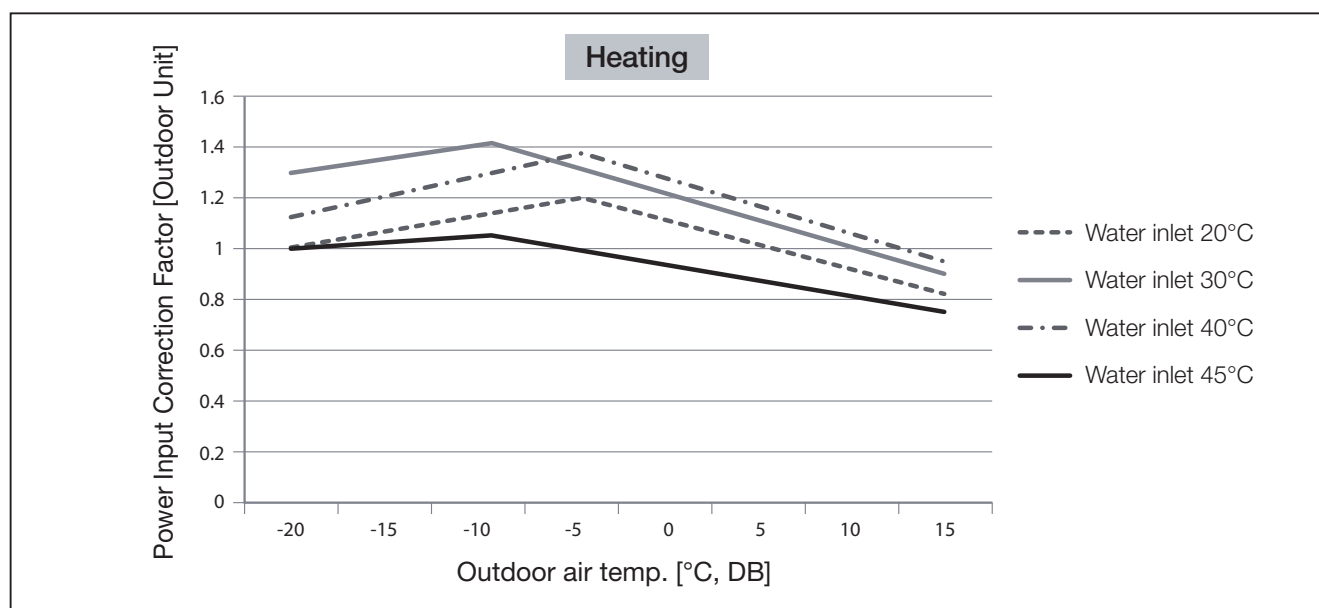
Power input correction factor (Cooling)

Outdoor air temp. (°C)	Water inlet temp. (°C)				
DB	10°C	15°C	20°C	25°C	30°C
-5	0.52	0.71	0.90	0.98	1.05
0	0.52	0.71	0.90	0.98	1.05
5	0.52	0.71	0.90	0.98	1.05
10	0.52	0.71	0.90	0.98	1.05
15	0.53	0.73	0.92	0.99	1.05
20	0.55	0.76	0.94	1.00	1.06
25	0.56	0.78	0.95	1.01	1.07
30	0.58	0.80	0.97	1.02	1.08
35	0.60	0.83	0.98	1.03	1.09
40	0.61	0.85	1.00	1.04	1.10

3 Capacity & Power input correction

Hydro HE

2) By outdoor air temperature



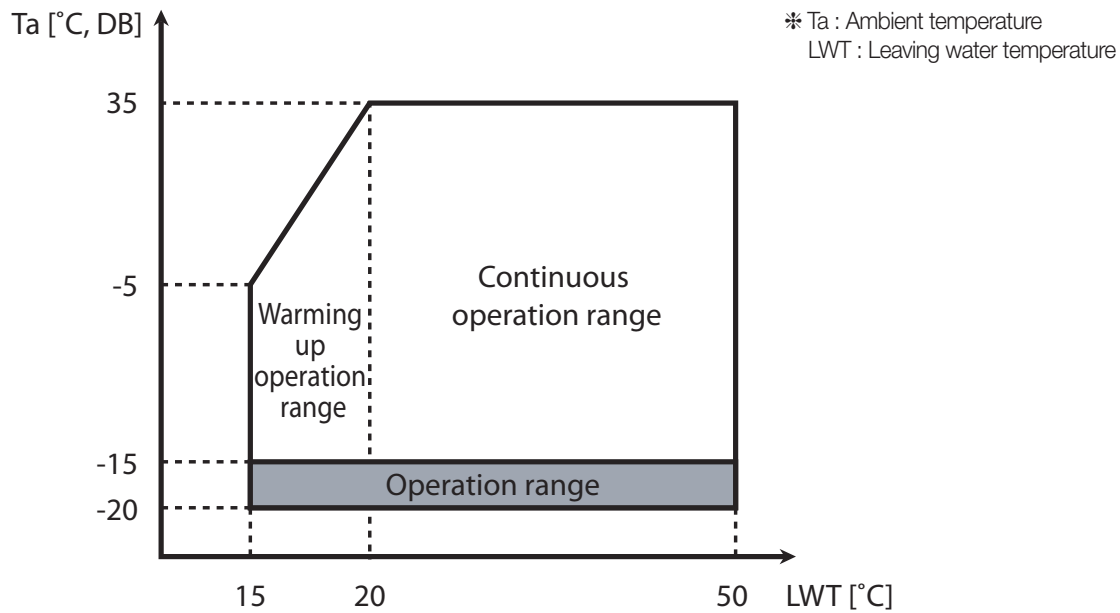
Power input correction factor (Heating)

Outdoor air temp. (°C)		Water inlet temp. (°C)			
DB	WB	20°C	30°C	40°C	45°C
-20	-20.2	1.00	1.30	1.12	1.00
-15	-15.3	1.07	1.36	1.21	1.03
-10	-10.5	1.13	1.42	1.29	1.05
-5	-5.6	1.20	1.31	1.37	0.99
0	-0.7	1.11	1.21	1.27	0.93
5	4.1	1.01	1.11	1.16	0.87
10	8.9	0.92	1.00	1.06	0.81
15	13.7	0.82	0.90	0.95	0.75

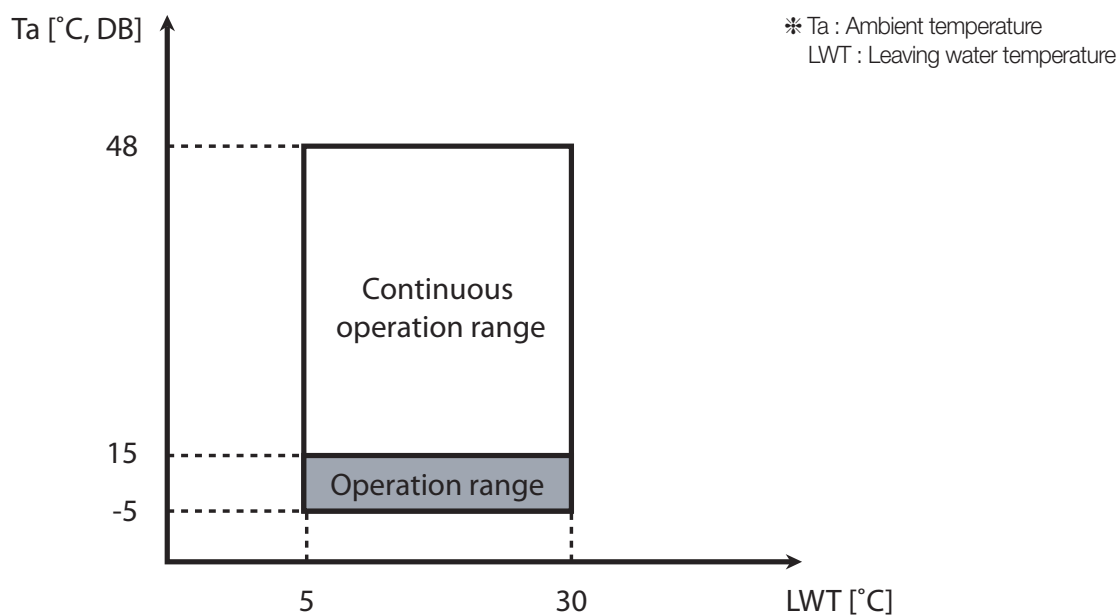
4 Operation range

Hydro HE

1) Heating

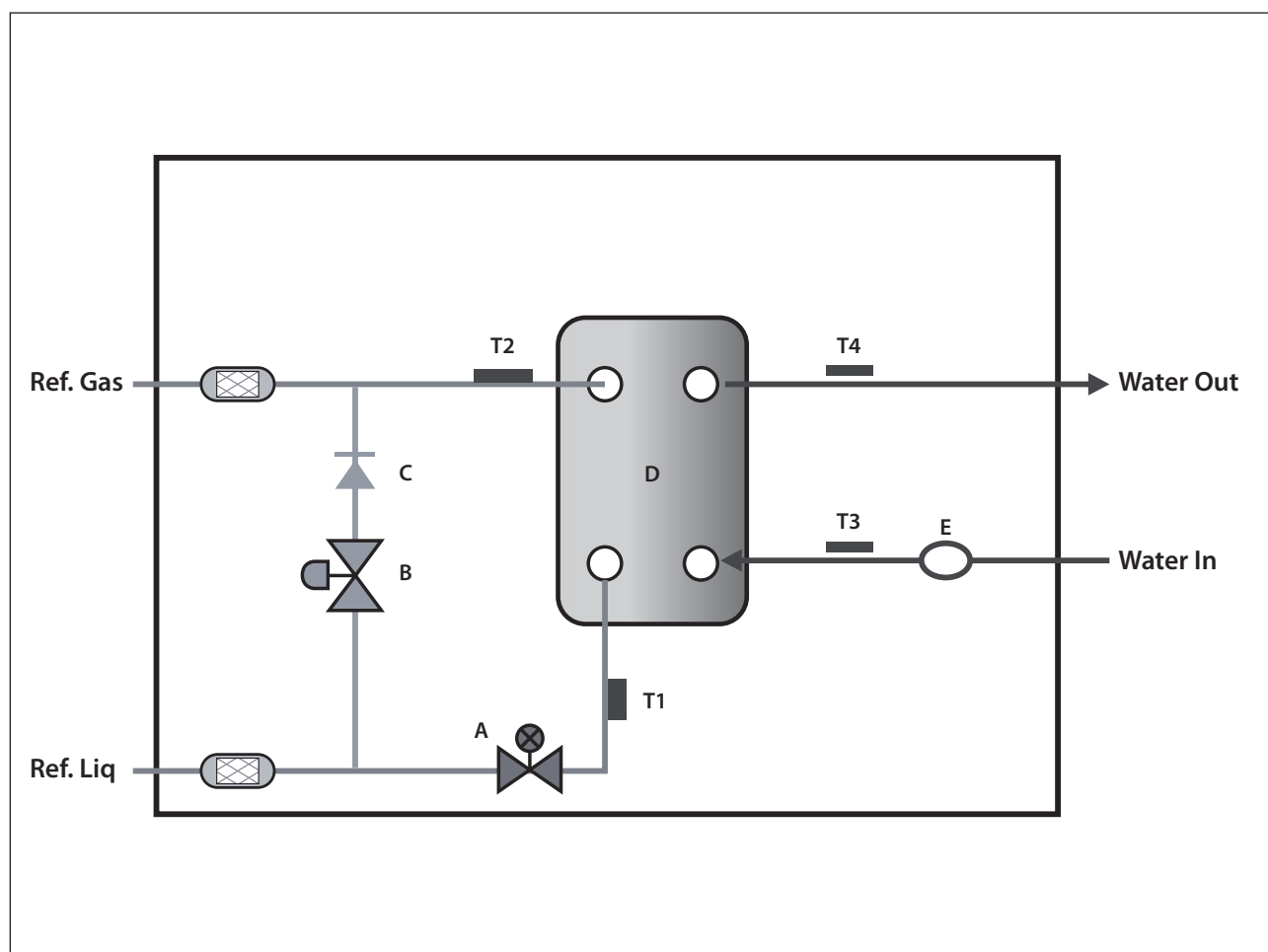


2) Cooling



5 Cycle diagram

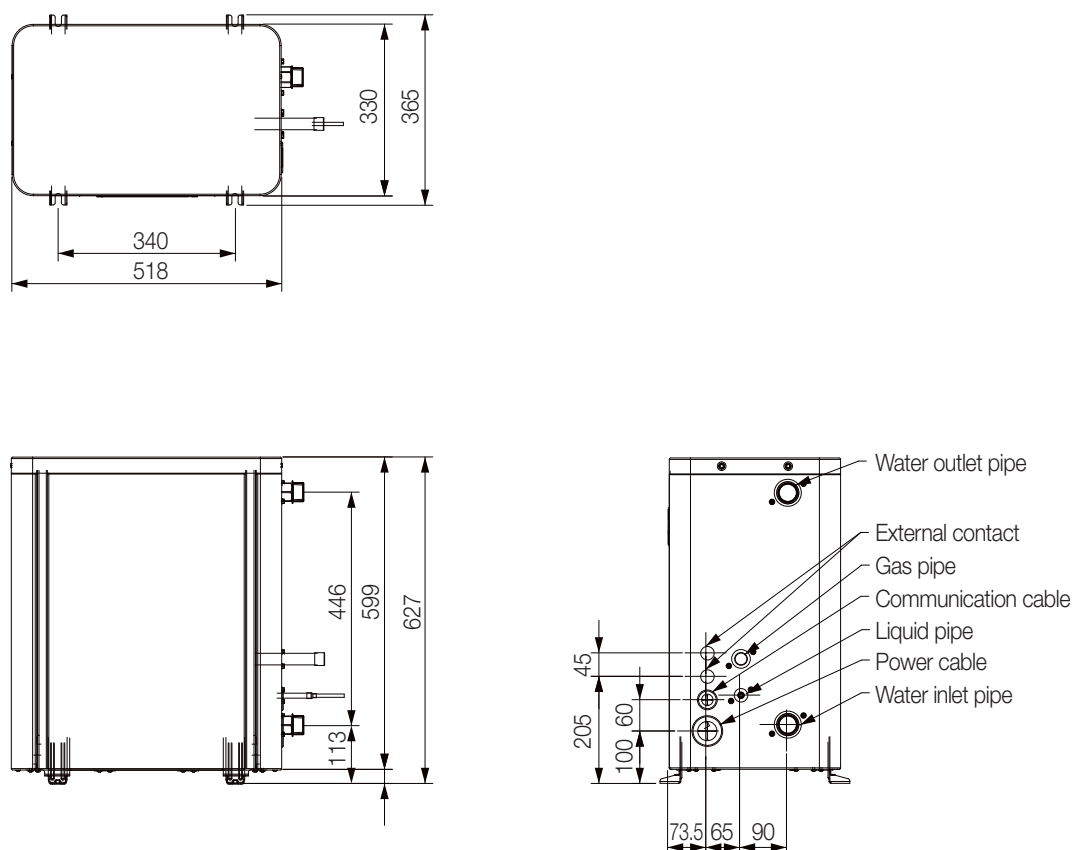
Hydro HE



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

6 Dimensional drawing

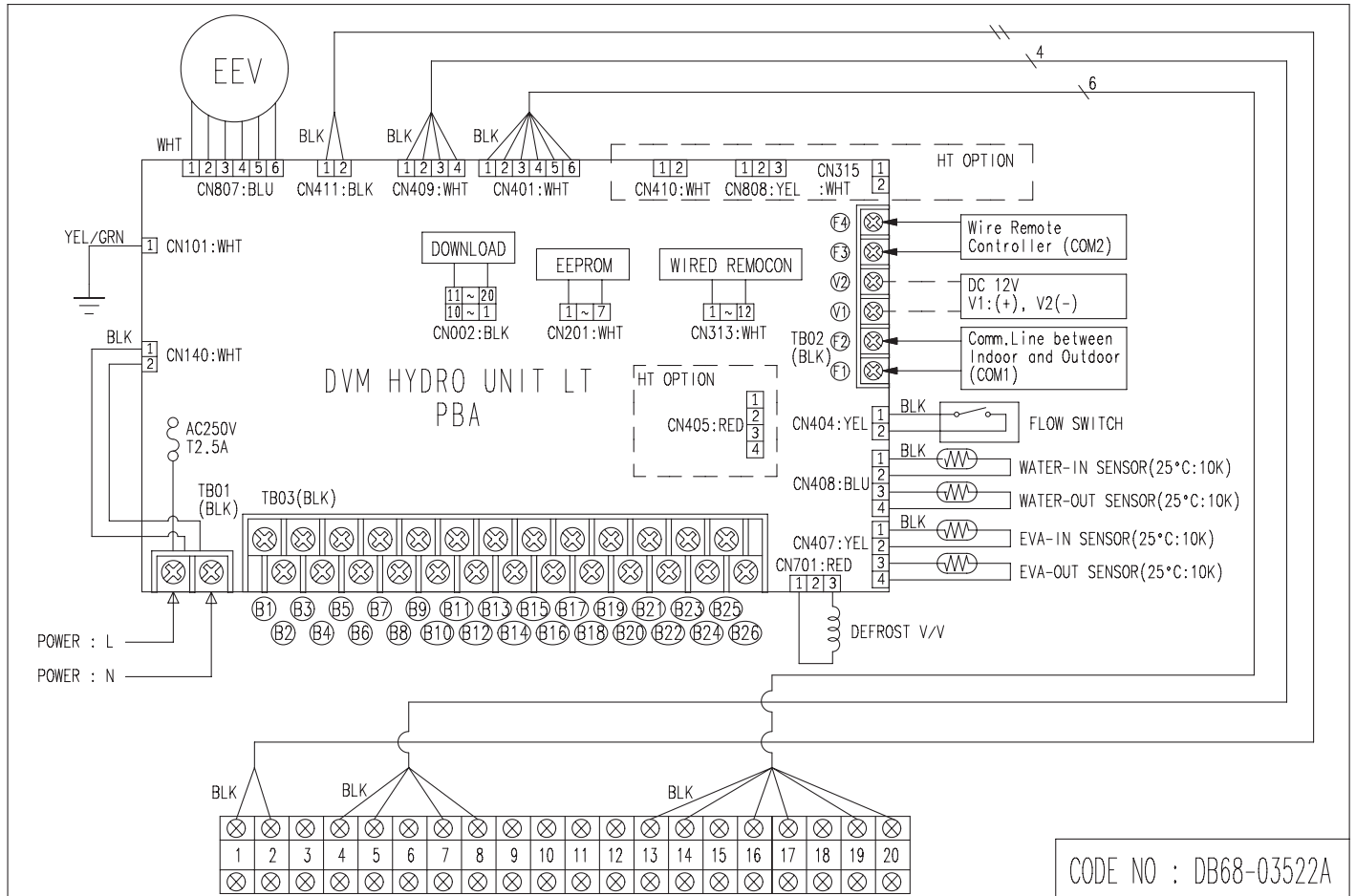
Hydro HE



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)

7 Electrical wiring diagram

Hydro HE

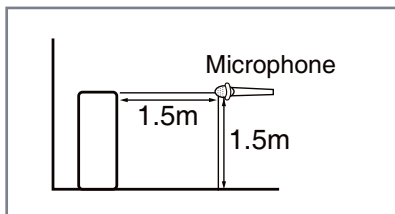


Terminal No.	External contact	Operation status/inspection checklist	Remarks
B1 - B2	OPERATION CHECK	Check on/off status for operation lamp of the control panel on the site	Optional
B3 - B4	ALARM	Check on/off status for alarm lamp of the panel on the site	Optional
B5 - B6	MAIN PUMP	Check the status of 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
7 - 8	WATER TANK TEMP	Check the temperature display on the wired remote controller after installing the 4~20mA temperature sensor	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

8 Sound pressure level

Hydro HE

1) Operation sound level



Unit : dB(A)

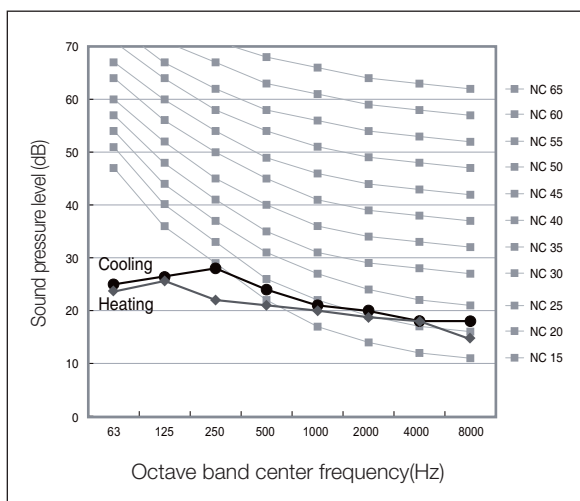
Model	Cooling	Heating
AM160FNBDEH***	27	26
AM320FNBDEH***	28	27
AM500FNBDEH***	30	31

✓ Note

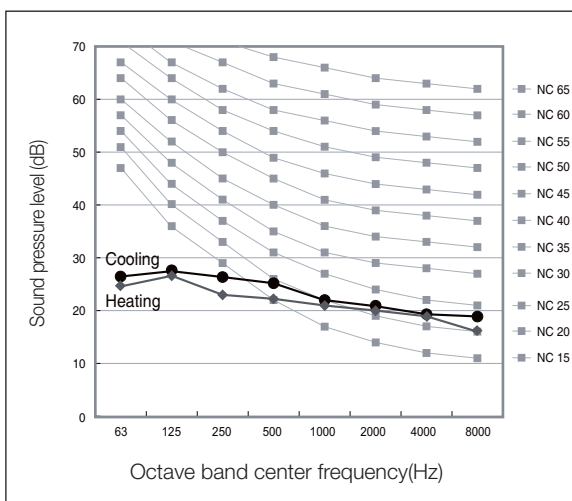
- ◆ These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- ◆ Operation sound level may differ depending on operation and ambient conditions.

2) NC curves

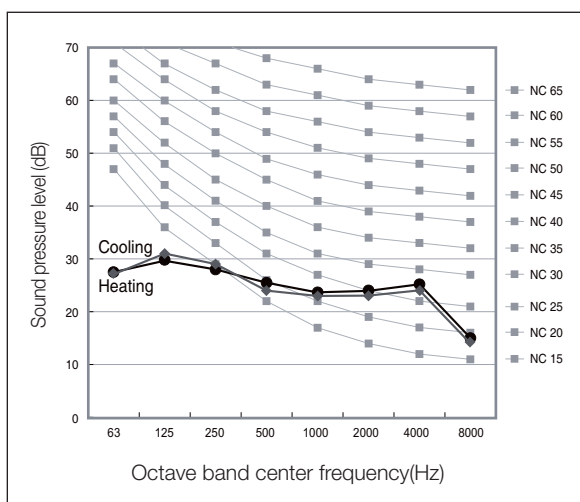
(1) AM160FNBDEH ***



(2) AM320FNBDEH ***



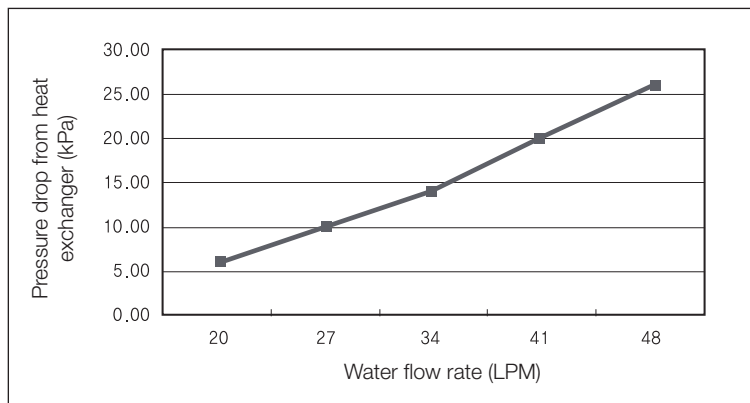
(3) AM500FNBDEH ***



9 Hydraulic performance

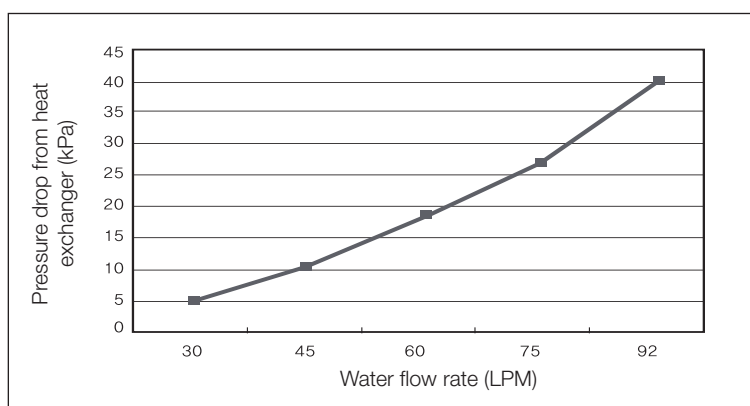
Hydro HE

1) AM160FNBDEH***



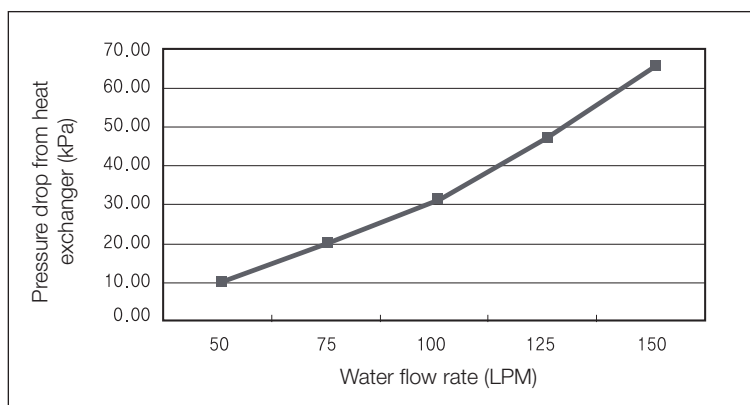
Water flow rate (LPM)	Pressure drop from heat exchanger (kPa)
20	6
27	10
34	14
41	20
48	26

2) AM320FNBDEH***



Water flow rate (LPM)	Pressure drop from heat exchanger (kPa)
30	5
45	11
60	19
75	27
92	40

3) AM500FNBDEH***



Water flow rate (LPM)	Pressure drop from heat exchanger (kPa)
50	10
75	20
100	32
125	46
150	65

Hydro HT

1 Specifications

2 Capacity table

3 Cycle diagram

4 Dimensional drawing

5 Electrical wiring diagram

6 Sound pressure level

7 Hydraulic performance

1 Specifications

Hydro HT

1) Technical specifications

Model				AM160FNBFB***	AM160FNBFGB***	AM250FNBFB***	AM250FNBFGB***
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
Compressor	MFA		A	30.19	16.1	40.19	16.1
	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 ~ 35	-20 ~ 35	-20 ~ 35	-20 ~ 35
		Hot Water (Main Cooling, HR)	°C	-20.0 ~ 35(43)	-20.0 ~ 35(43)	-20.0 ~ 35(43)	-20.0 ~ 35(43)
	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 Capacity table

Hydro HT

1) Heating

HC : Heating Capacity(W), PI : Power Input(W)
LW : Leaving Water temperature, EW : Entering Water temperature

Model	Ta	LW[°C]		LW[°C]		LW[°C]		LW[°C]	
		45		55		65		75	
	[°C DB]	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 Capacity table

Hydro 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

2 Capacity table

Hydro HT

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 Capacity table

Hydro HT

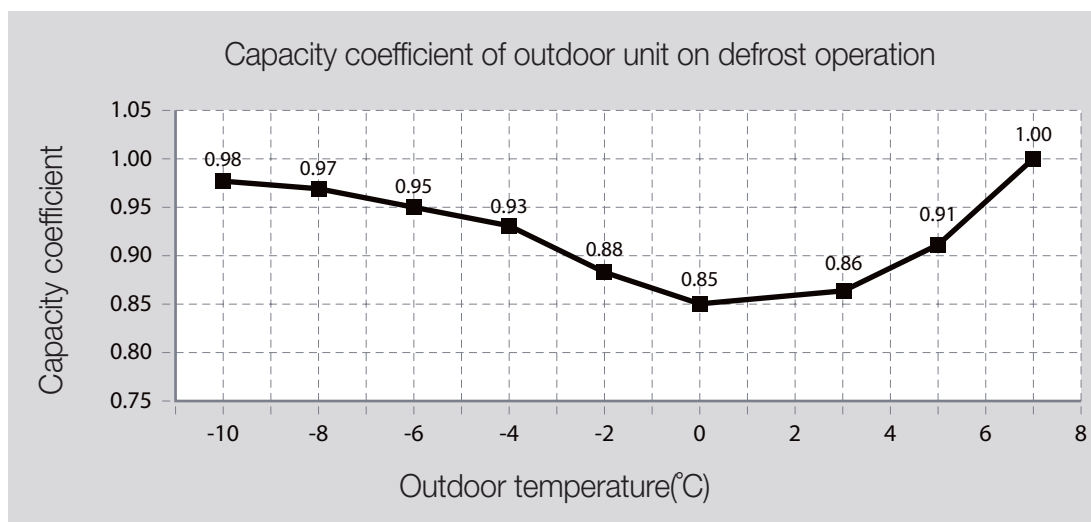
How to calculate heating capacity and power input : Integrated value

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

Corrected Heating Capacity = heating capacity x 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	

2 Capacity table

Hydro HT

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) = $\{ 0.91 \times (2,453\text{W} + 2,419\text{W}) / 2 + (1 - 0.91) \times 1,050\text{W} \} \times 2 = 4.62\text{kW}$

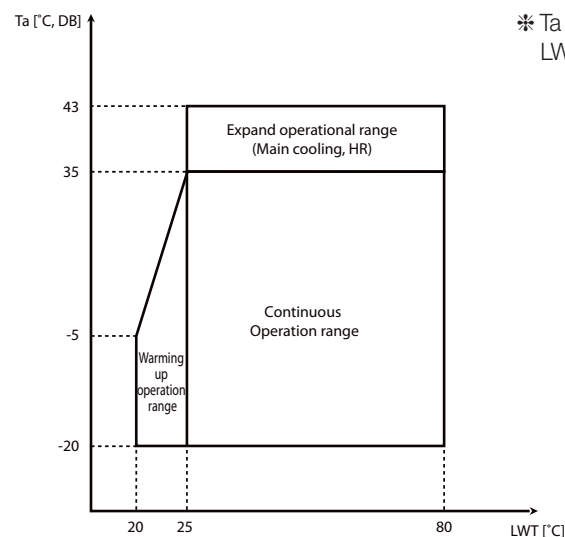
7) Total PI = $6.88 + 4.62 = 11.5\text{kW}$

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

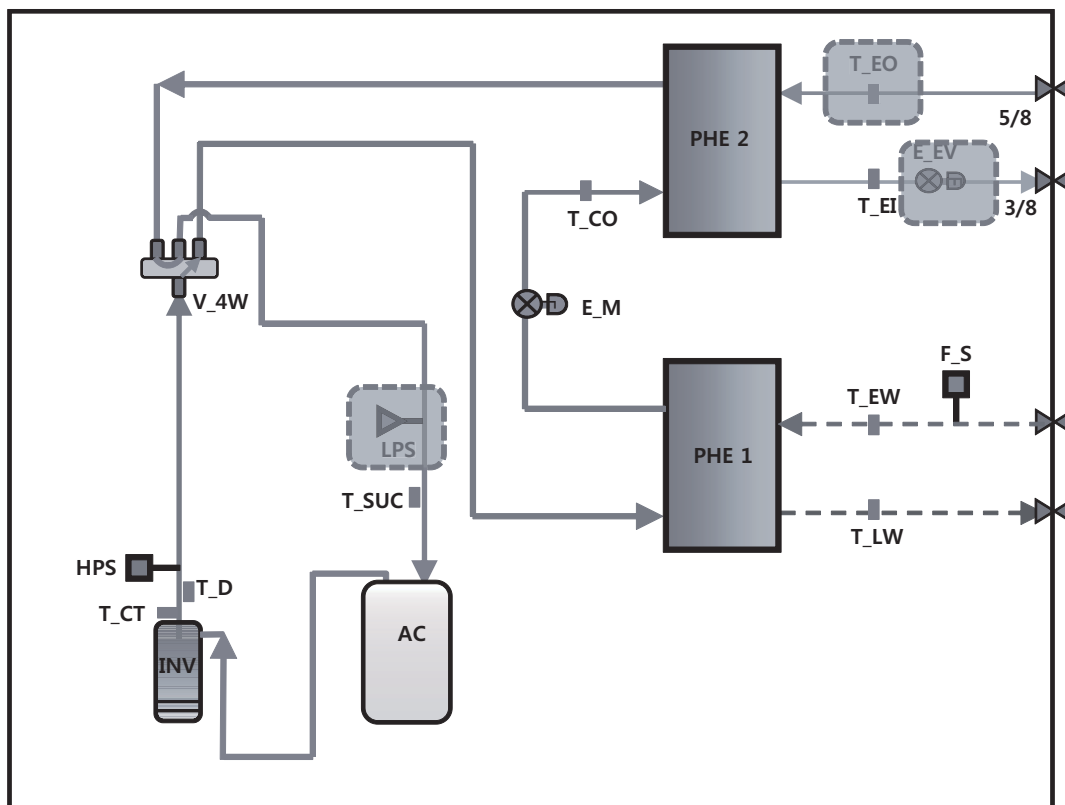


* Ta : Ambient temperature

LWT : Leaving water temperature

3 Cycle diagram

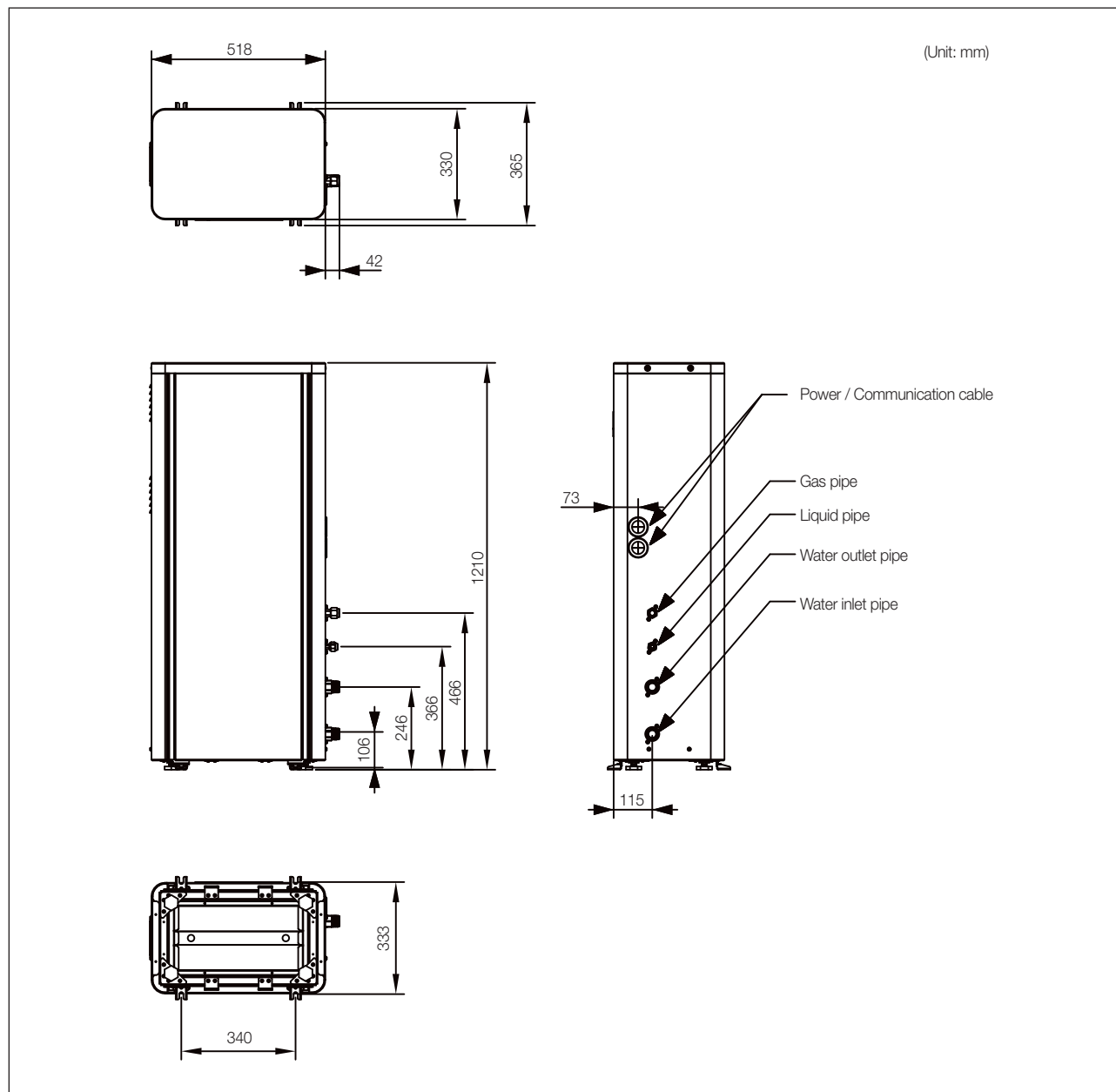
Hydro HT



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

4 Dimensional drawing

Hydro HT

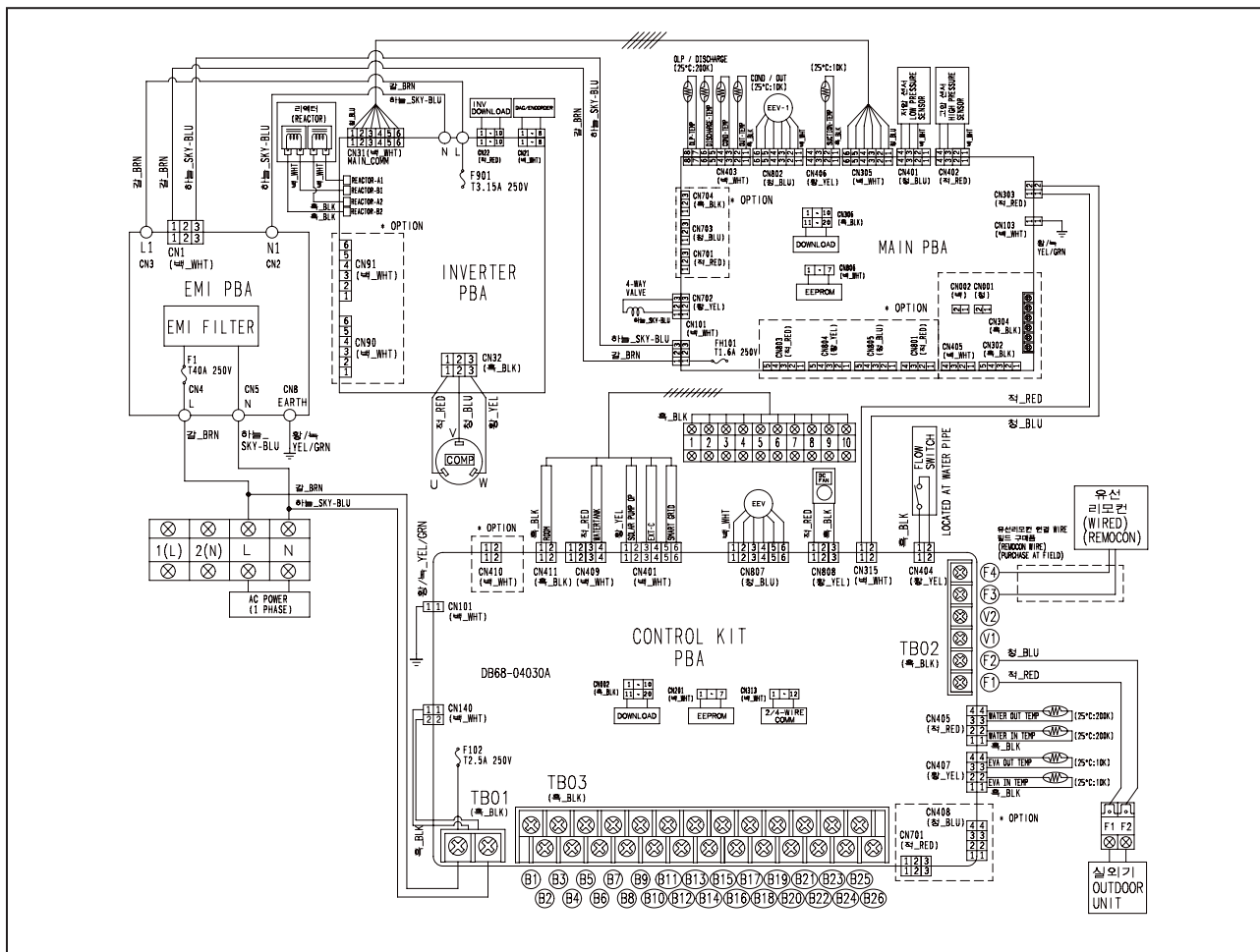


Model of the Hydro unit		AM***FNBF*B
Refrigerant side	Liquid side connection part	3/8" (ø9.52)
	Gas side connection part	5/8" (ø15.88)
Water side connection part		PT 1(25A)

5 Electrical wiring diagram

Hydro HT

1) AM***FNBFE***

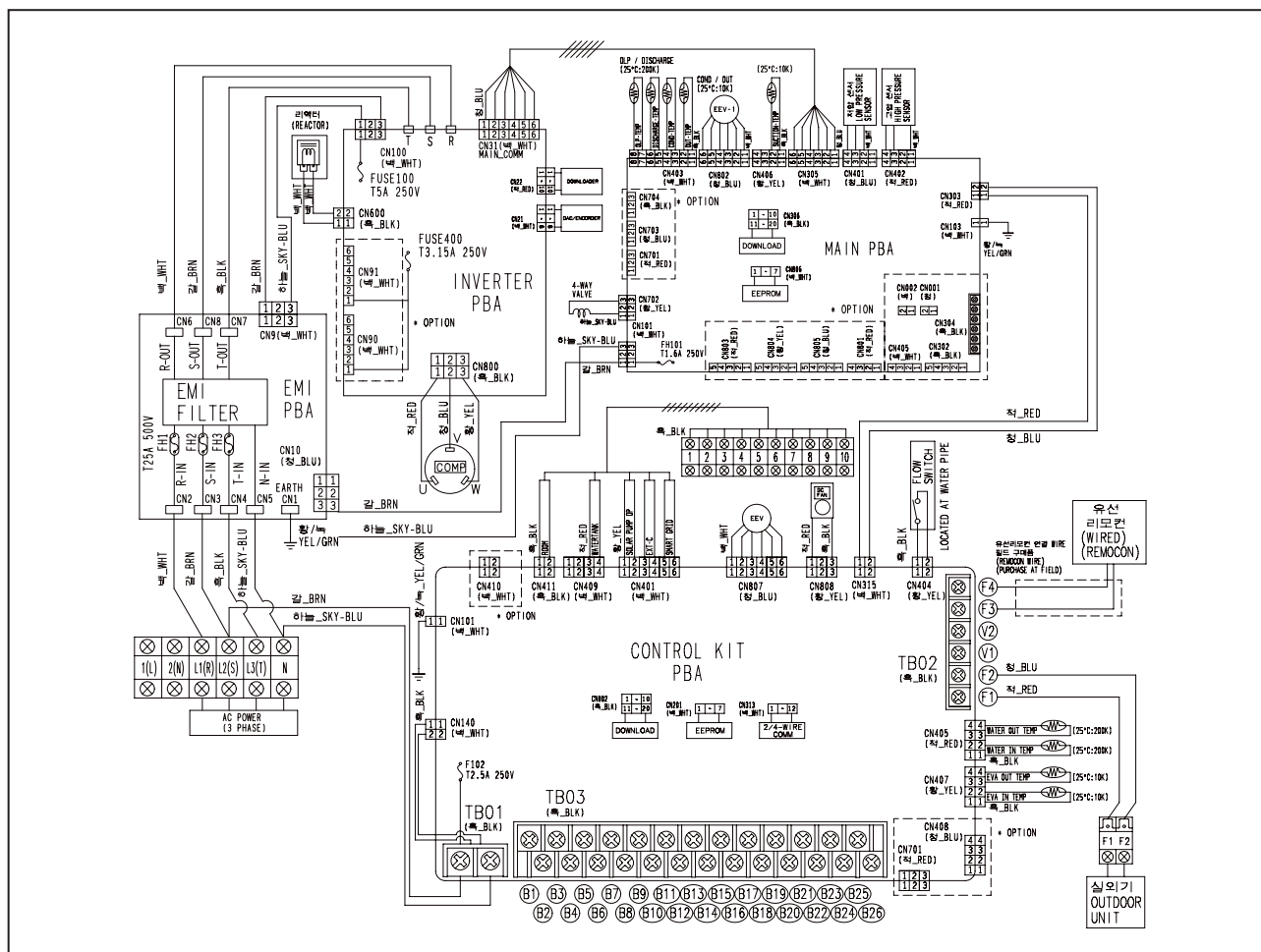


Terminal No.	External contact	Operation status/inspection checklist	Remarks
B1-B2	OPERATION CHECK	Check on/off status for operation lamp of the control panel on the site	Optional
B3-B4	ALARM	Check on/off status for alarm lamp of the panel on the site	Optional
B5-B6	MAIN PUMP	Check the status of the pump 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

5 Electrical wiring diagram

Hydro HT

2) AM***FNBFGB***

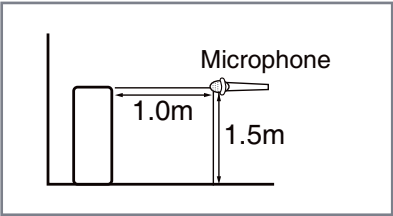


Terminal No.	External contact	Operation status/inspection checklist	Remarks
B1-B2	OPERATION CHECK	Check on/off status for operation lamp of the control panel on the site	Optional
B3-B4	ALARM	Check on/off status for alarm lamp of the panel on the site	Optional
B5-B6	MAIN PUMP	Check the status of the pump 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
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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

6 Sound pressure level

Hydro HT

1) Operation Sound Level



Unit : dB(A)

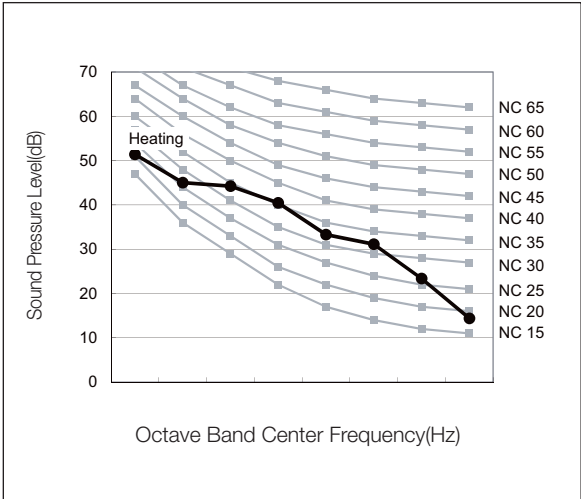
Model	Heating
AM160FNBFEF***	42
AM160FNBFGF***	42
AM250FNBFEF***	42
AM250FNBFGF***	42

☒ **Note**

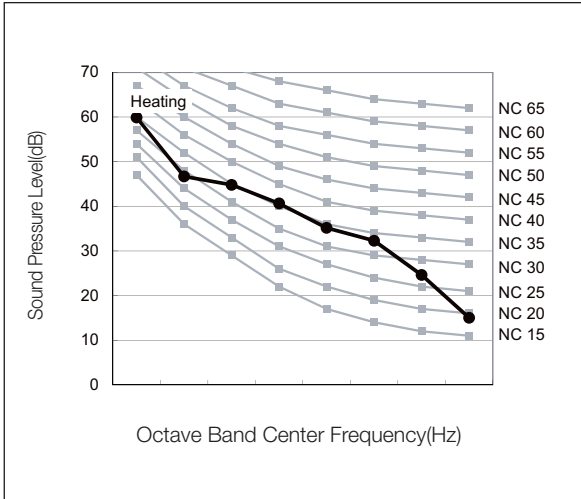
- ◆ These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- ◆ Operation sound level may differ depending on operation and ambient conditions.

2) NC curves

(1) AM160FNBFEF***



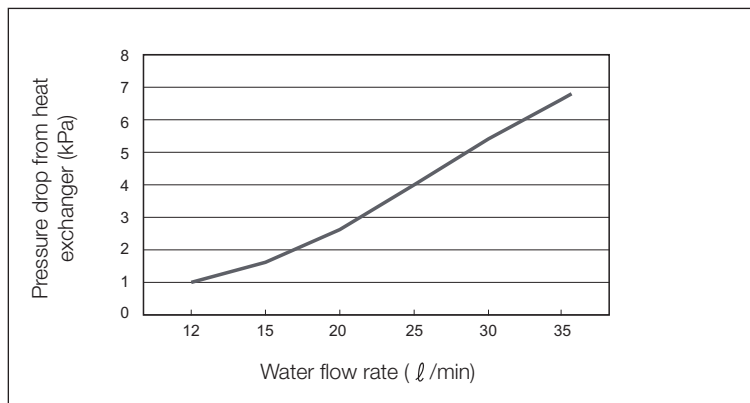
(2) AM250FNBFEF***



7 Hydraulic performance

Hydro HE

1) AM***FNBF**



Water flow rate (LPM)	Pressure drop from heat exchanger (kPa)
12	1
15	1.6
20	2.57
25	4.09
30	5.5
35	6.83

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B2B PM / SE

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