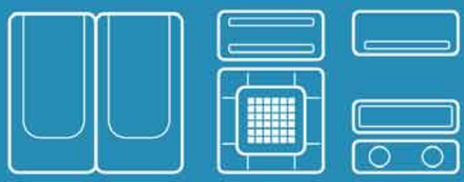
VRF

Technical Data Book

All indoor units for Europe (R410A, 50Hz, HP/HR)



SAMSUNG

History

Version	Modification	Date	Remark
Ver.1.0	Release VRF DVM S Indoor Unit TDB for 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.227) - AM***FNFDEH*** : Air inlet grille → Air outlet louver	'16.07.27.	
Ver.1.6.1	Add Temperature and air flow distribution data for console. (p.218~222)	'16.10.17.	
Ver.1.7	Add line up - 1Way Cassette : 2 models (5.6/7.1kW) - 360 Cassette : All models (4.5~14kW) - Slim Duct (drain pump included) : All models (1.7~14kW) - MSP Duct (drain pump included) : All models (2.2~16kW) - BORACAY : All models (1.5~7.1kW) - Console : 2 models (2.2/4.5kW) - PAC : All models (14/28kW) Add heat exchanger spec. for all indoor models. Modification for 'Temperature and air flow distribution' data of Big Ceiling. (p.334~335)	'16.11.07.	
Ver.1.8	Add tCO2e data (Hydro Unit HT's Specifications)	'16.12.09.	
Ver.1.9	Add Sound Power data & graph (AM028/036/056, p.338, 348)	'16.12.19.	
Ver.2.0	Modify Fan Characteristics section of Duct model(Slim&MSP duct)	'16.12.22.	
Ver.2.1	Modify Capacity table of Floor standing model (p.372, 373)	'16.12.27.	
Ver.2.2	Modify Pressure drop from heat exchanger of Hydro unit HT. (p.421)	'17.02.06.	
Ver.2.3	Modify Net/Shipping Weight for Slim/MSP/HSP Duct & Duct S Modify Pannel Spec of 4Way Cassette(600x600) (Model name, Net/Shipping Weight&Size)	'17.03.16.	
Ver.2.4	Modify the Dimensional drawing of Hydro unit HT. (p.417) Modify the Flow Rate (l/s) of ERV Plus. (p.388)	'17.03.29.	
Ver.2.5	Add Temperature and air flow distribution data for 4Way CST(600x600). (p.59~61)	'17.07.12.	
Ver.2.51	Modify the Accessory Compatibility table for MCU kit(P15)	'17.09.13.	
Ver.2.6	Modified the Capacity Table & Power input correction factor of Hydro Unit HE (P399~405)	'17.09.26.	
Ver.2.7	Modified 'Electrical wiring diagram' of indoor unit (P.99)	'18.01.05	

Contents

I. Products

II. Indoor Units

I. Products

1 Nomenclature

Indoor Units

Model Names

AM	071	K	N	4	D	E	H	/	EU
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)		Buyer

(1) Classification

AM	VRF

(2) Capacity

x 1/10 kW (3 digits)

(3) Version

F	2013
H	2014
J	2015
K	2016

(4) Product Type

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

(5) Product Notation

1	1Way Cassette
2	2Way Cassette
4	4Way Cassette S / 360 Cassette
N	4Way Cassette(600x600)
L	LSP Duct
M	MSP Duct
H	HSP Duct
E	OAP Duct
T	Neo Forte
Q	Neo Forte(EEV)
A	AR5000
V	AR5000(EEV)
C	Ceiling
J	Console
F	Floor Standing
P	PAC
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

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

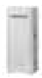
2 Line up

Indoor unit

Model		Capacity (kW)															
		1.5	1.7	2.2	2.8	3.2	3.6	4.5	5.6	6.0	7.1	8.2	9.0	11.2	12.8	14.0	16.0
1Way CST	JSF-0																
	JSF-1																
	JSF-2																
2Way CST																	
4Way CST																	
360 CST																	
Floor Standing Unit																	
4Way CST S (600X600)																	
Duct S (MSP)																	
Slim Duct																	
MSP Duct																	
Ceiling																	
Console																	
Boracay																	
Boracay (with EEV)																	
AR5000																	
AR5000 (with EEV)																	

2 Line up

Indoor unit

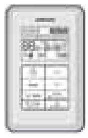
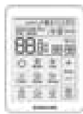
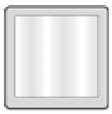
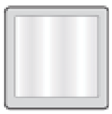
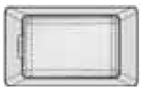
Model	Capacity (kW)															
	1.5	1.7	2.2	2.8	3.2	3.6	4.5	5.6	6.0	7.1	8.2	9.0	11.2	12.8	14.0	16.0
HSP Duct																
OAP Duct																
Big Duct																
Hydro Unit HE																
Hydro Unit HT																
ERV Plus																

- Make sure to use an indoor unit that is compatible with DVM S.
- If the total capacity of the connected indoor units exceeds the indicated maximum capacity, cooling and heating capacity of the indoor unit may decrease.
- Total capacity of the connected indoor units can be allowed from 50% to 130% of the total outdoor unit capacity.
  0.5 ×∑(Outdoor unit capacity) ≤ Total capacity of the connected indoor units ≤ 1.3 × ∑(Outdoor unit capacity)

NOTE

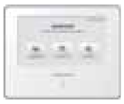
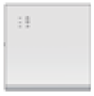
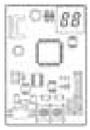
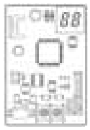
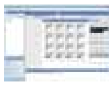
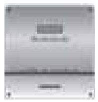
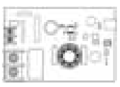
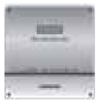
- You can connect maximum 64 indoor units to the outdoor unit.
  - Maximum quantity of connectable indoor unit is set to 64 since outdoor unit only support up to 64 communication address. Indoor unit address can be assigned from 0~63. If the indoor unit address was assigned from 64~79, E201 error will occur.
  - Maximum 32 Wall-mount type indoor units with EEV (AM****NQDEH***, AM****NVDKH***) can be connected.

Controller

Classification	Product	Model	Image	Remark	Using
Individual Control System	Wireless Remote Controller	MR-EH00			DVM, CAC
	Wireless Remote Controller	AR-KH00E		360 CST Only	DVM, CAC
	Wired Remote Controller	MWR-WE11N			DVM, CAC
	Wired Remote Controller - Simple Type	MWR-SH00N			DVM, CAC
	Wired Remote Controller - Touch Simple Type	MWR-SH10N			DVM, CAC
	ERV Wired Remote Controller	MWR-VH12N		ERV Olny	DVM, CAC
	Wired Remote Controller	MWR-WW00N		EHS Only	EHS
	Receiver KIT	MRK-A10N			DVM, CAC
	Zone Controller	MWR-ZS00N		Master controller + Damper controller	DVM, CAC
	Zone Controller	MWR-ZS10N		Slave controller	DVM, CAC
	Zone Controller	MRW-TS		External room sensor	DVM, CAC

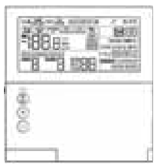
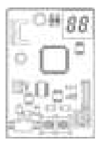
3 Accessory

Controller

Classification	Product	Model	Image	Remark	Using
Centralized Control System	Onoff Controller	MCM-A202DN			DVM, CAC
	Touch Centralized Controller	MCM-A300N			DVM, CAC
	WIFI KIT	MIM-H03N			DVM, CAC
	Interface Module	MIM-N01			DVM, CAC
	ERV Interface Module	MIM-N10			DVM, CAC
Integrated management System	DMS2.5	MIM-D01AN			DVM, CAC
	S-NET3	MST-P3P			DVM, CAC
Gate Way	BACnet Gateway	MIM-B17BN			DVM, CAC
	Lonworks Gateway	MIM-B18BN			DVM, CAC
	External Contact Interface Module	MIM-B14			DVM, CAC
	MTFC (Multi Tenant Function Controller)	MCM-C210N			DVM
	SIM (Signal Interface Module)	MIM-B12N			DVM, CAC
	PIM (Pulse Interface Module)	MIM-B16N			DVM, CAC

3 Accessory

Controller

Classification	Product	Model	Image	Remark	Using
Installation /Test run Solution	S-Checker	MIM-C10N			DVM, CAC
	S-Converter	MIM-C02N			DVM, CAC
Others	External Room Sensor	MRW-TA			DVM, CAC
	Operation Mode Selection Switch	MCM-C200			DVM
	Module Controller	MCM-A00N		CHILLER Only	CHILLER
	FCU Interface Module	MIM-F10N		CHILLER Only	CHILLER

NOTE

- In case you want more information about the accessories, please refer to the control and accessories TDB on pvi.Samsung.com site.

Controller & Control Accessory Compatibility

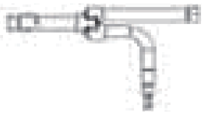
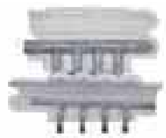
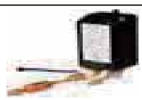
Item		NASA (DVM S)	Non-NASA (DVM +3/+4)	Remark
Individual Control System	Wireless Remote Controller	MR-EH00	MR-EH00	DVM, CAC
	Wireless Remote Controller	AR-KH00E	AR-KH00E	DVM, CAC (360 CST)
	Wired Remote Controller	MWR-WE11N	MWR-WE10	DVM, CAC
	Wired Remote Controller - Simple Type	MWR-SH00N	MWR-SH00	DVM, CAC
	Wired Remote Controller - Touch Simple Type	MWR-SH10N	-	DVM, CAC
	ERV Wired Remote Controller	MWR-VH12N	-	DVM, CAC (ERV)
	Wired Remote Controller	MWR-WW00N	MWR-WW00	EHS
	Receiver KIT	MRK-A10N	-	DVM, CAC
	Zone Controller	MWR-ZS00N	MWR-ZS00	DVM, CAC
	Zone Controller	MWR-ZS10N	MWR-ZS10	DVM, CAC
	Zone Controller	MRW-TS	MRW-TS	DVM, CAC
Centralized Control System	Onoff Controller	MCM-A202DN	MCM-A202D	DVM, CAC
	Touch Centralized Controller	MCM-A300N	-	DVM, CAC
	WIFI KIT	MIM-H03N	MIM-H03	DVM, CAC
	Interface Module	MIM-N01	MIM-N01	DVM, CAC
	ERV Interface Module	MIM-N10	MIM-N10	DVM, CAC
Integrated management System	DMS2.5	MIM-D01AN	MIM-D00A	DVM, CAC
	S-NET3	MST-P3P	MST-P3P	DVM, CAC
Gate Way	BACnet Gateway	MIM-B17BN	MIM-B17	DVM, CAC
	Lonworks Gateway	MIM-B18BN	MIM-B18	DVM, CAC
	External Contact Interface Module	MIM-B14	MIM-B14	DVM, CAC
	MTFC (Multi Tenant Function Controller)	MCM-C210N	-	
	SIM (Signal Interface Module)	MIM-B12N	MIM-B12	DVM, CAC
	PIM (Pulse Interface Module)	MIM-B16N	MIM-B16	DVM, CAC
	Module Controller	MCM-A00N	-	CHILLER ONLY
	FCU KIT	MIM-F00N	-	CHILLER ONLY
	FCU Interface Module	MIM-F10N	-	CHILLER ONLY
Installation / Test run Solution	S-Checker	MIM-C10N	-	DVM, CAC
	S-Converter	MIM-C02N	MIM-C02	DVM, CAC
Others	External Room Sensor	MRW-TA	MRW-TA	DVM, CAC
	Operation Mode Selection Switch	MCM-C200	MCM-C200	DVM

NOTE

- In case you want to know more information the accessories, please refer to the control and accessories TDB on pvi.samsung.com site

3 Accessory

Piping

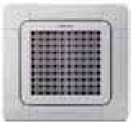
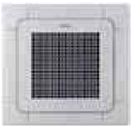
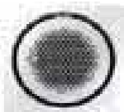
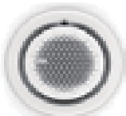
Product	Image	Model	Remark
Y-Joint		MXJ-YA1509M	15.0 kW and below
		MXJ-YA2512M	Over 15.0 kW ~ 40.0 kW and below
		MXJ-YA2812M	Over 40.0 kW ~ 45.0 kW and below
		MXJ-YA2815M	Over 45.0 kW ~ 70.3 kW and below
		MXJ-YA3419M	Over 70.3 kW ~ 98.4 kW and below
		MXJ-YA4119M	Over 98.4 kW ~ 135.2 kW and below
		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	~56 kW, ~6 indoor units
		MCU-S4NEE1N	~56 kW, ~4 indoor units
		MCU-S4NEE2N	~56 kW, ~6 indoor units
		MCU-S2NETK1N	~28 kW, ~2 indoor units
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	
PDM KIT		MXD-A38K2A	8~12 HP
		MXD-A12K2A	14~16 HP
		MXD-A58K2A	18~26 HP

NOTE

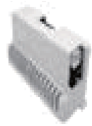
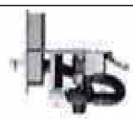
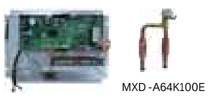
- In case you want more information about the accessories, please refer to the control and accessories TDB on pvi.Samsung.com site.

3 Accessory

Indoor

Product	Image	Model	Remark
Panel		PC1NUSMAN	1Way CST (JSF-1)
		PC1NUPMAN	1Way CST (JSF-1) (Z-sliding)
		PC1MWSKAN	1Way CST (JSF-0)
		PC1NWSMAN	1Way CST (JSF-1)
		PC1BWSMAN	1Way CST (JSF-2)
		PC2NUSMEN	2Way Cassette
		PC4SUSMBN	4Way Cassette S (600x600) (Waffle)
		PC4SUSMFN	4Way Cassette S (600x600) (Classic)
		PC4NUSKAN	4way Cassette S (Waffle)
		PC4NUSKEN	4way Cassette S (Classic)
		PC4NBSKAN	4way Cassette S (Waffle, Black)
		PC4NUDMAN	360 CST Square (White)
		PC4NUNMAN	360 CST Circular (White)
		PC4NBDMAN	360 CST Square (Black)
		PC4NBNMAN	360 CST Circular (Black)
S-Plasma Ion KIT		MSD-CAN1	[Option] 1Way, 4Way, 4Way (600x600), 360, Big Ceiling [Include] Console
		MSD-EAN1	[Option] Duct S, Big Duct, ERV, ERV Plus
Motion detect Sensor		MCR-SMA	4Way Cassette S (600x600)

Indoor

<table>
<tr><th>Product</th><th>Image</th><th>Model</th><th colspan="4">Remark</th></tr>
<tr><td>ERV CO2 Sensor</td><td></td><td>MOS-C1</td><td colspan="4">ERV, ERV PLUS</td></tr>
<tr><td>External room sensor</td><td></td><td>MRW-TA</td><td colspan="4">Casssette, Wall-mount, Ceiling, Duct, Console</td></tr>
<tr><td rowspan="9">Drain Pump</td><td rowspan="2"></td><td>MDP-N047SNC0D</td><td colspan="4">OAP Duct (14.0 kW)</td></tr>
<tr><td>MDP-N047SNC1D</td><td colspan="4">HSP Duct (22.0 / 28.0 kW)
OAP Duct (22.4 / 28.0 kW)</td></tr>
<tr><td rowspan="3"></td><td>MDP-M075SGU1D</td><td colspan="4">MSP-0 / 1 Duct (9.2 / 11.2 kW)</td></tr>
<tr><td>MDP-M075SGU2D</td><td colspan="4">MSP-2 Duct (12.8 / 14.0 kW)
HSP Duct (11.2 / 12.8 / 14.0 kW)</td></tr>
<tr><td>MDP-M075SGU3D</td><td colspan="4">MSP-S Duct (5.6 / 7.1 kW)</td></tr>
<tr><td></td><td>MDP-E075SEE3D</td><td colspan="4">Slim Duct (2.0~14.0 kW)</td></tr>
<tr><td></td><td>MDP-G075SP</td><td colspan="4">Duct S (External, All Capacities)
BIG Duct</td></tr>
<tr><td></td><td>MDP-G075SQ</td><td colspan="4">Duct S (Internal, 3.5 kW~14 kW)
BIG Duct</td></tr>
<tr style="display:none"></tr>
<tr><td rowspan="6">AHU KIT</td><td rowspan="4"></td><td>MXD-K025AN</td><td colspan="4">7.0 kW~8.75 kW</td></tr>
<tr><td>MXD-K050AN</td><td colspan="4">14.0 kW~17.5 kW</td></tr>
<tr><td>MXD-K075AN</td><td colspan="4">21.0 kW~26.25 kW</td></tr>
<tr><td>MXD-K100AN</td><td colspan="4">28.0 kW~35.0 kW</td></tr>
<tr><td rowspan="2"></td><td rowspan="2">MCM-D201N</td><td>28kW~35kW</td><td>56kW~70kW</td><td>84kW~105kW</td><td>112kW~140kW</td></tr>
<tr><td>MDX-A64K100E
X 1 EA</td><td>MDX-A64K100E
X 2 EA</td><td>MDX-A64K100E
X 3 EA</td><td>MDX-A64K100E
X 4 EA</td></tr>
</table>

NOTE

- In case you want more information about the accessories, please refer to the control and accessories TDB on pvi.Samsung.com site.

3 Accessory

Indoor unit's Accessory Compatibility

Product	Model	Remark	1way			2way	4way	360	4W (600x600)	Slim duct	MSP Duct				Duct-S	Big Duct	HSP Duct	OAP Duct		RAC	Ceiling	B-Ceiling	Console	PAC	Floor Standing	ERV Plus	AHU
			JSF-0	JSF-1	JSF-2						MSP-S	MSP-0	MSP-1	MSP-2				5HP	8,10HP								
Panel	PC4NUDMAN	Ceiling						O																			
	PC4NBDMAN	Ceiling (Black)						O																			
	PC4NUNMAN	Open						O																			
	PC4NBNMAN	Open (Black)						O																			
	PC4NUSKAN	Waffle					O																				
	PC4NBSKAN	Waffle (Black)					O																				
	PC4NUSKEN	Classic					O																				
	PC4SUSMBN	Waffle							O																		
	PC4SUSMFN	Classic							O																		
	PC1NUSMAN	Stripe		O																							
	PC1NUPMAN	Z-Slide		O																							
	PC1MWSKAN		O																								
	PC1NWSMAN	Fluid		O																							
	PC1BWSMAN				O																						
	PC2NUSMEN	Stripe				O																					
DRAIN PUMP	MDP-N047SNC0D	-																O									
	MDP-N047SNC1D	-															O		O								
	MDP-M075SGU1D	-										O	O														
	MDP-M075SGU2D	-												O													
	MDP-M075SGU3D	-									O																
	MDP-E075SEE3D	-								O																	
	MDP-G075SP	External, All Capacities													O	O											
	MDP-G075SQ	Internal													O	O											
S-Plasma Ion KIT	MSD-CAN1	-					O		O																		
	MSD-EAN1	-																								O	
Motion detect Sensor	MCR-SMA	-							O																		
ERV CO2 Sensor	MOS-C1	-																								O	
EEV KITS	MEV-E**SA	1 Indoor																		O							
	MXD-E**K***A	2,3 Indoor																		O							
MCU-KIT	MCU-S6NEE1N	Below 6 IDU, below 56 Kw	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O			O	O	O	O	O	O	O	
	MCU-S4NEE1N	Below 4 IDU, below 56 kW	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O			O	O	O	O	O	O	O	
	MCU-S4NEE2N	Below 2 large capa IDU, below 56 kW	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O			O	O	O	O	O	O	O	
	MCU-S2NEK1N	Below 2 IDU, below 28 kW	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O			O	O	O	O	O	O	O	
AHU-KIT	MXD-K025AN	only for 2.5Hp's AHU																									O
	MXD-K050AN	only for 5Hp's AHU																									O
	MXD-K075AN	only for 7.5Hp's AHU																									O
	MXD-K100AN	only for 10Hp's AHU																									O
	MCM-D201N	only for 10~40Hp's AHU																									O

NOTE
- In case you want to know more information the accessories, please refer to the control and accessories TDB on pvi. samsung.com site

II. Indoor units

1Way Cassette

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	0.40	25.00
		Heating		24.00	0.40	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 / 24 / 21	27 / 25 / 23	27 / 25 / 23
	Power	Cooling		43	45	46
Dimension	Net Weight		kg	8.0	10.5	8.0
	Shipping Weight		kg	10.8	13.0	10.8
	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	2.6	3.0	2.6
	Shipping Weight		kg	4.2	5.0	4.2
	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.
* Heat Exchanger type : Fin & Tube (Fin : Al, Tube : Cu)

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 / 27 / 24	35 / 31 / 27
	Power	Cooling		48	52
Dimension	Net Weight		kg	10.5	10.5
	Shipping Weight		kg	13.0	13.0
	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	3.0	3.0
	Shipping Weight		kg	5.0	5.0
	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.
* Heat Exchanger type : Fin & Tube (Fin : Al, Tube : Cu)

1Way Cassette

Type				1Way Cassette	1Way Cassette
Model				AM056JN1DEH/EU	AM071JN1DEH/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	55.00	80.00
		Heating		55.00	80.00
	Current Input (Nominal)	Cooling	A	0.28	0.40
		Heating		0.28	0.40
Fan	Motor	Type	-	Crossflow Fan	Crossflow Fan
		Output x n	w	54 x 1	54 x 1
	Air Flow Rate	H/M/L (UL)	CMM	16.00 / 14.00 / 12.50	17.00 / 15.50 / 14.00
			l/s	266.67 / 233.33 / 208.33	283.33 / 258.33 / 233.33
	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	VP20 (OD 25,ID 20)	VP20 (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)	36.0 / 33.0 / 31.0	39.0 / 37.0 / 34.0
	Power	Cooling		58.0	60.0
Dimension	Net Weight		kg	14.50	14.50
	Shipping Weight		kg	18.50	18.50
	Net Dimensions (WxHxD)		mm	1,200 x 138 x 450	1,200 x 138 x 450
	Shipping Dimensions (WxHxD)		mm	1,435 x 224 x 525	1,435 x 224 x 525
Panel Size	Panel model		-	PC1BWSMAN	PC1BWSMAN
	Panel Net Weight		kg	6.30	6.30
	Shipping Weight		kg	8.30	8.30
	Net Dimensions (WxHxD)		mm	1,410 x 23 x 500	1,410 x 23 x 500
	Shipping Dimensions (WxHxD)		mm	1,474 x 122 x 566	1,474 x 122 x 566
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.
* Heat Exchanger type : Fin & Tube (Fin : Al, Tube : Cu)

2 Capacity table

1Way Cassette

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity

Model	Outdoor temperature (ºC, DB)	Indoor temperature (ºC, 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
1.70	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

1Way Cassette

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity

Model	Outdoor temperature (ºC, DB)	Indoor temperature (ºC, 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
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
7.10	10	4.90	4.00	5.80	4.50	6.70	4.80	7.10	5.00	7.40	5.00	8.00	5.10	8.50	4.80
	12	4.90	4.00	5.80	4.50	6.70	4.80	7.10	5.00	7.40	5.00	7.90	5.00	8.50	4.80
	14	4.90	4.00	5.80	4.50	6.70	4.80	7.10	5.00	7.40	5.00	7.90	5.00	8.50	4.80
	16	4.90	4.00	5.80	4.50	6.70	4.80	7.10	5.00	7.40	5.00	7.90	5.00	8.40	4.80
	18	4.90	4.00	5.80	4.50	6.70	4.80	7.10	5.00	7.40	5.00	7.90	5.00	8.40	4.80
	20	4.90	4.00	5.80	4.50	6.70	4.80	7.10	5.00	7.40	5.00	7.90	5.00	8.40	4.80
	21	4.90	4.00	5.80	4.50	6.70	4.80	7.10	5.00	7.40	5.00	7.90	5.00	8.40	4.80
	23	4.90	4.00	5.80	4.50	6.70	4.80	7.10	5.00	7.40	5.00	7.90	5.00	8.40	4.80
	25	4.90	4.00	5.80	4.50	6.70	4.80	7.10	5.00	7.40	5.00	7.90	5.00	8.40	4.80
	27	4.90	4.00	5.80	4.50	6.70	4.80	7.10	5.00	7.40	5.00	7.90	5.00	8.40	4.80
	29	4.90	4.00	5.80	4.50	6.70	4.80	7.10	5.00	7.40	5.00	7.90	5.00	8.40	4.80
	31	4.90	4.00	5.80	4.50	6.70	4.80	7.10	5.00	7.40	5.00	7.90	5.00	8.40	4.80
	33	4.90	4.00	5.80	4.50	6.70	4.80	7.10	5.00	7.40	5.00	7.90	5.00	8.40	4.80
	35	4.90	4.00	5.80	4.50	6.70	4.80	7.10	5.00	7.40	5.00	7.90	5.00	8.40	4.80
	37	4.90	4.00	5.80	4.50	6.70	4.80	7.10	5.00	7.30	4.90	7.80	4.90	8.20	4.70
	39	4.90	4.00	5.80	4.50	6.70	4.80	7.10	5.00	7.30	4.90	7.70	4.80	8.10	4.60

2 Capacity table

1Way Cassette

Heating

TC : Total Capacity

Model	Outdoor temperature (ºC)		Indoor temperature (ºC, DB)				
			16.0	18.0	20.0	22.0	24.0
			TC	TC	TC	TC	TC
	DB	WB	kW	kW	kW	kW	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
	15	14	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	2.50	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
2.20(*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	2.50	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

2 Capacity table

1Way Cassette

Heating

TC : Total Capacity

Model	Outdoor temperature (ºC)		Indoor temperature (ºC, DB)				
			16.0	18.0	20.0	22.0	24.0
			TC	TC	TC	TC	TC
	DB	WB	kW	kW	kW	kW	kW
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
	15	14	7.30	6.80	6.30	5.80	5.30
7.10	-20	-21	4.90	4.90	4.80	4.70	4.70
	-17	-18	5.10	5.00	4.90	4.80	4.80
	-15	-16	5.30	5.20	5.10	4.90	4.80
	-12	-13	5.60	5.50	5.40	5.30	5.20
	-10	-11	5.90	5.80	5.70	5.60	5.60
	-7	-8	6.20	6.10	6.00	5.90	5.80
	-5	-6	6.50	6.50	6.40	6.20	6.00
	-3	-4	6.90	6.80	6.70	6.40	6.20
	0	-1	7.20	7.10	7.00	6.70	6.40
	3	2	7.60	7.50	7.30	7.10	6.80
	5	4	7.90	7.80	7.70	7.20	6.80
	7	6	8.20	8.10	8.00	7.40	6.80
	9	8	8.50	8.20	8.00	7.40	6.80
	11	10	8.70	8.40	8.00	7.40	6.80
	13	12	9.00	8.50	8.00	7.40	6.80
	15	14	9.20	8.60	8.00	7.40	6.80

1Way Cassette

AM017HN1DEH/EU, AM022HN1DEH/EU

Units : mm / inches

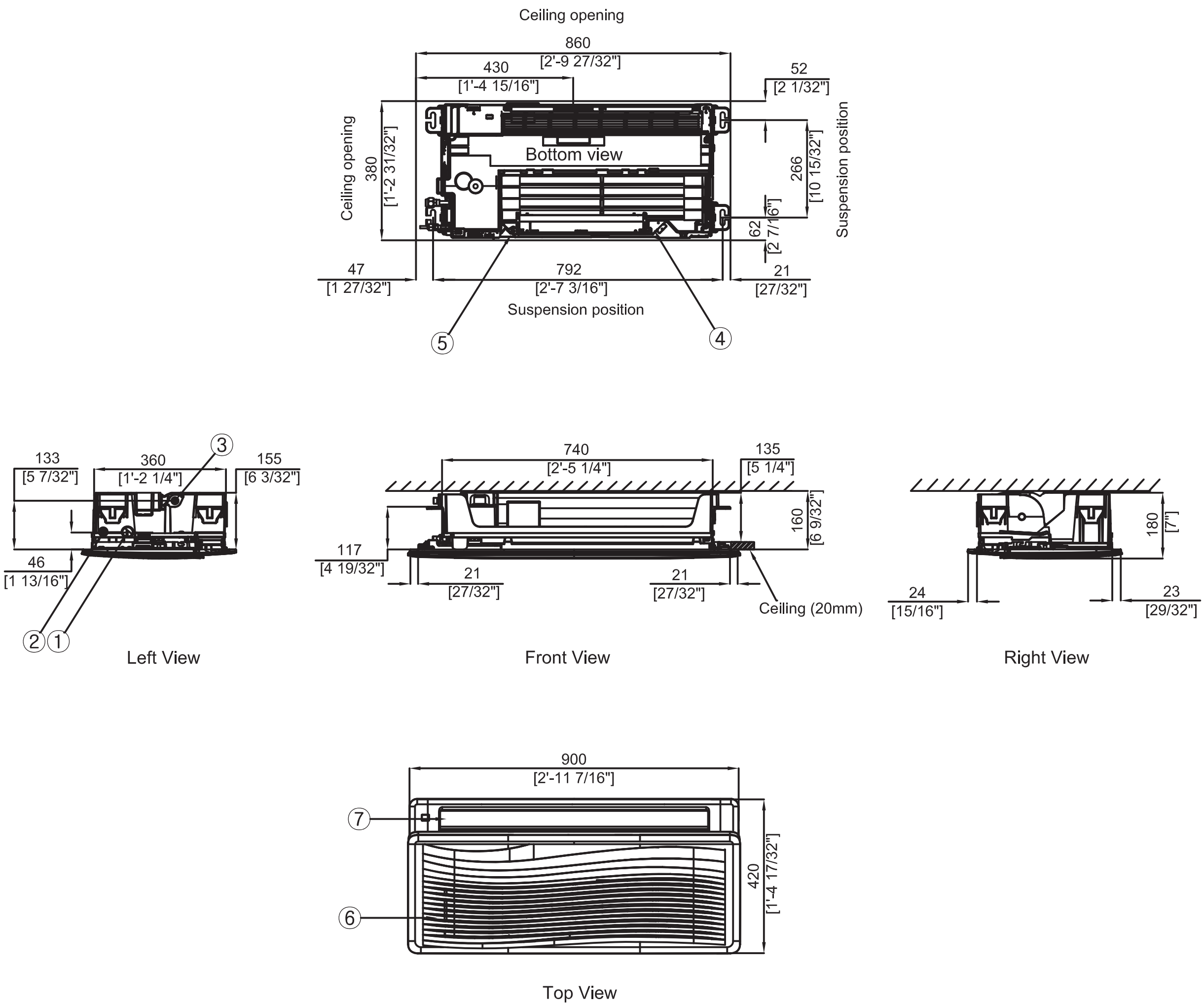


Table of descriptions			
1	Refrigerant gas pipe	7	Air outlet louver
2	Refrigerant liquid pipe	8	
3	Drain pipe	9	
4	Power supply wiring conduit	10	
5	Communication wiring conduit	11	
6	Air inlet grille	12	

3 Dimensional drawing

1Way Cassette

AM022FN1DEH/EU, AM028FN1DEH/EU, AM036FN1DEH/EU

Units : mm / inches

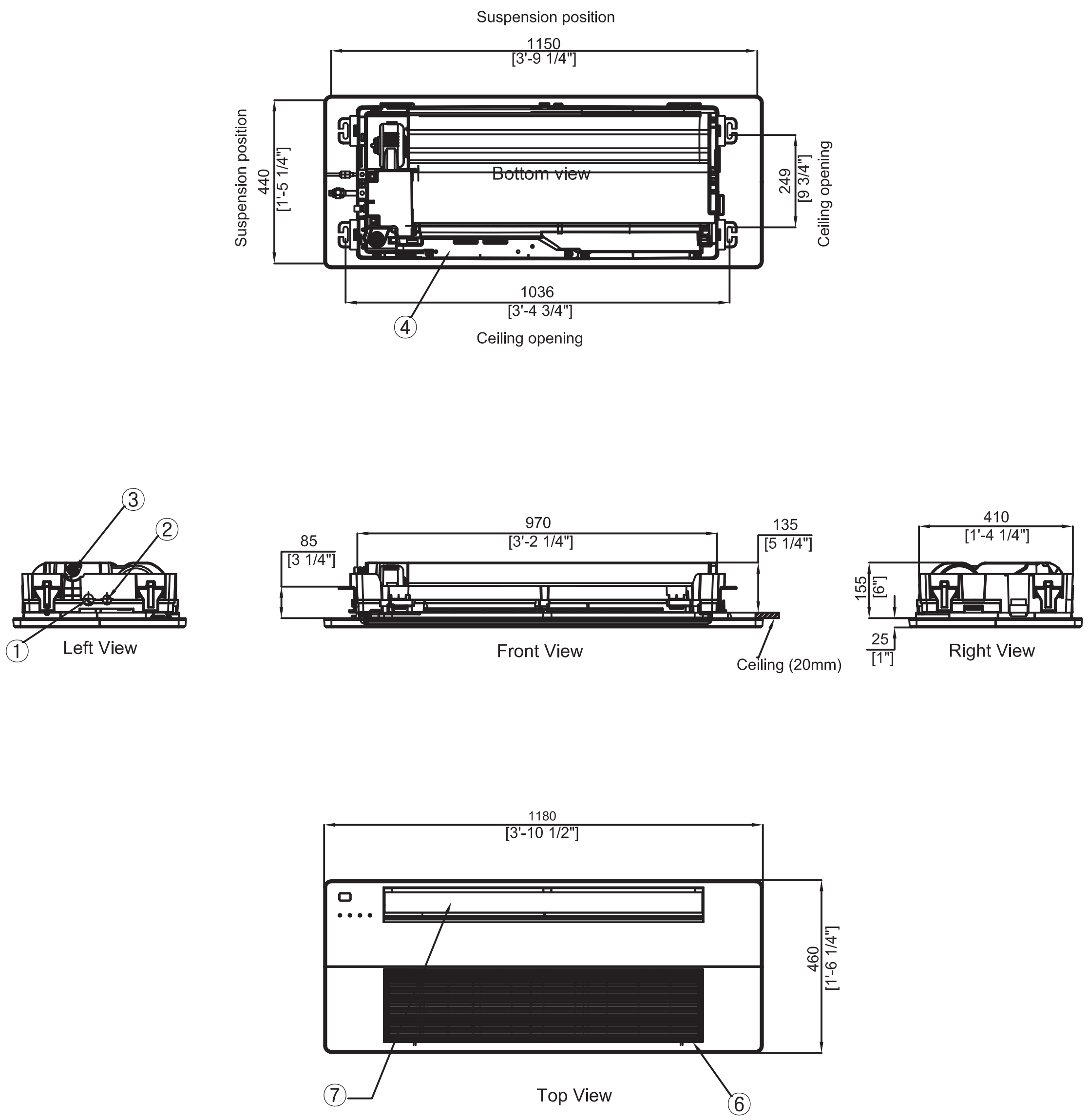


Table of descriptions			
1	Refrigerant gas pipe	7	
2	Refrigerant liquid pipe	8	
3	Condensate drain	9	
4	Power & Comm. wiring conduits	10	
5	Air discharge louver	11	
6	Air suction grille	12	

3 Dimensional drawing

1Way Cassette

AM056JN1DEH/EU, AM071JN1DEH/EU

Units : mm / inches

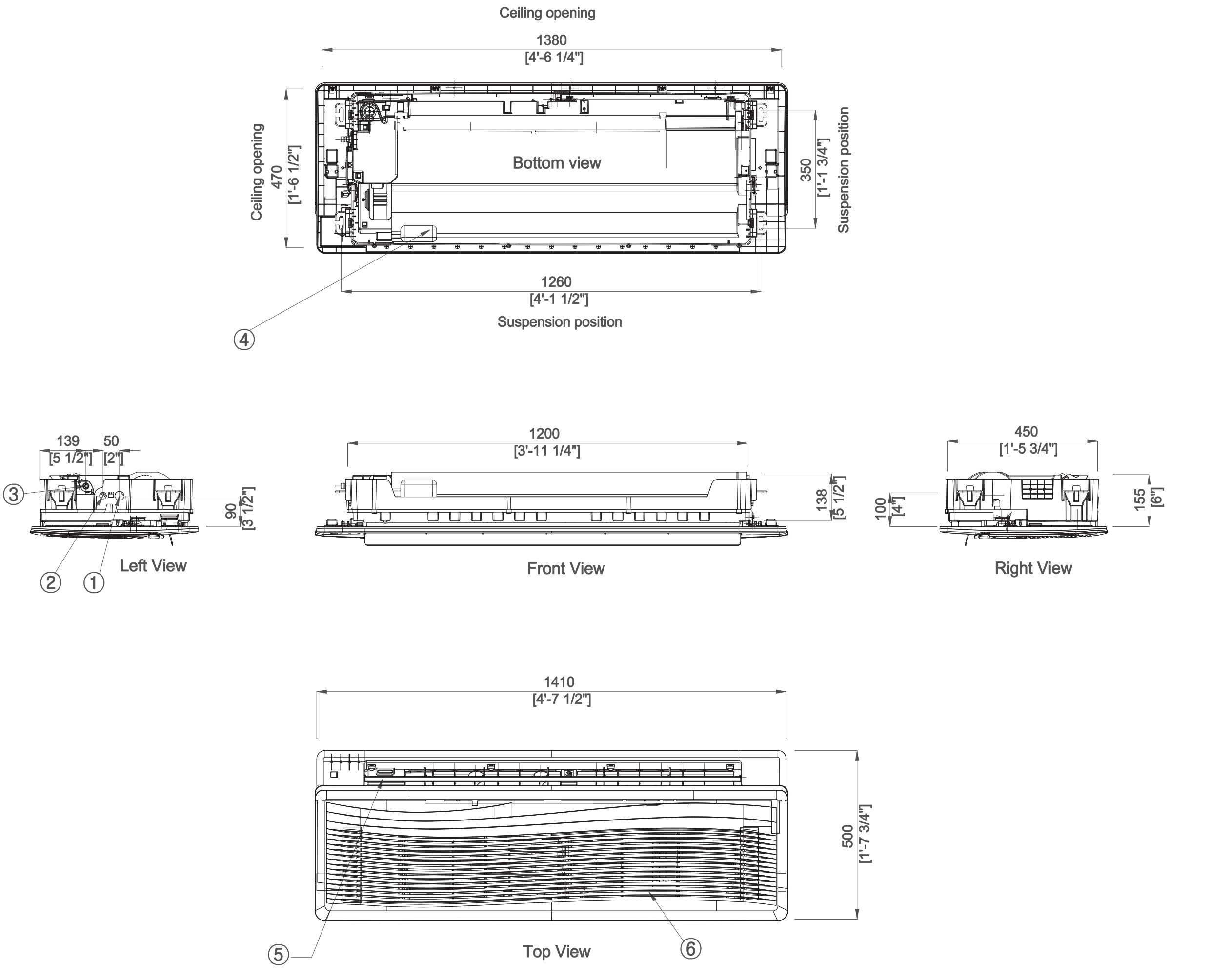
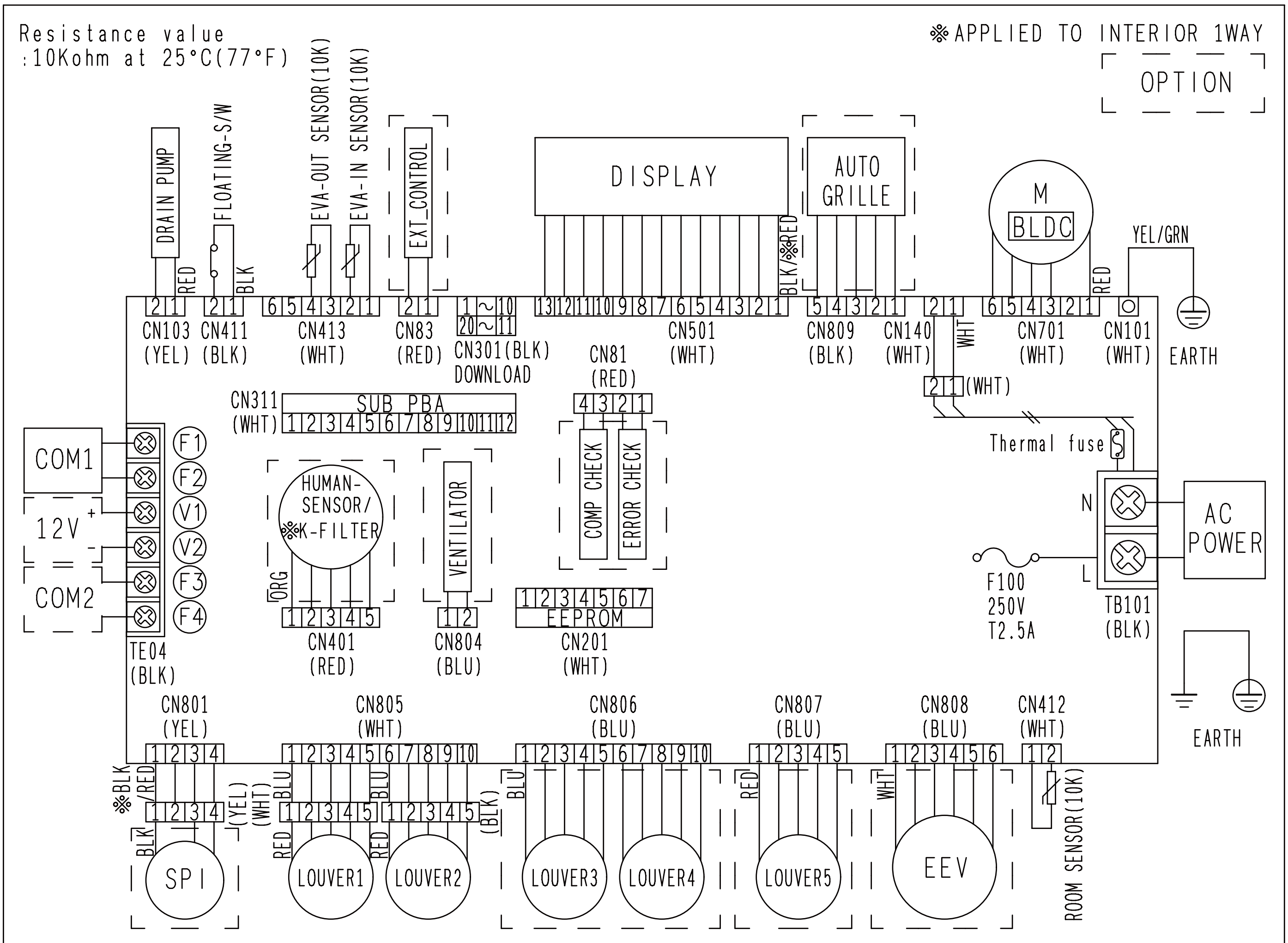


Table of descriptions			
1	Refrigerant gas pipe	7	
2	Refrigerant liquid pipe	8	
3	Condensate drain	9	
4	Power & Comm. wiring conduits	10	
5	Air discharge louver	11	
6	Air suction grille	12	

4 Electrical wiring diagram

1Way Cassette

AM017HN1DEH/EU, AM022HN1DEH/EU, AM056JN1DEH/EU, AM071JN1DEH/EU



USE COPPER SUPPLY WIRES.
UTILISER DES FILS
D'ALIMENTATION EN CUIVRE.

E-PASS
DB68-03616B

LED LAMP DISPLAY					LED DISPLAY FOR ERROR DETECTION
OPERATION	DEFROST	TIMER	FAN	FILTER	○ON ◑FLICKERING X OFF
BLU	GRN	BLU	BLU	BLU	
X	X	◑	X	X	ERROR OF TEMPERATURE SENSOR IN THE INDOOR UNIT(OPEN/SHORT)
◑	X	◑	X	X	ERROR OF EVA IN,OUT SENSOR IN THE INDOOR UNIT(OPEN/SHORT)
X	X	X	◑	X	ERROR OF FAN MOTOR IN THE INDOOR UNIT
◑	X	X	◑	X	ERROR OF OUTDOOR SENSOR(OUTDOOR TEMP./COND/DISCHARGE)
X	X	◑	◑	X	NO COMMUNICATION FOR 2 MINUTES BETWEEN INDOOR AND OUTDOOR UNIT
X	X	◑	◑	◑	ERROR OF OUTDOOR UNIT/SELF-DIAGNOSIS (CHECK ERROR CODE AT OUTDOOR UNIT'S OR SOLUTION DISPLAY)
X	X	X	◑	◑	DETECTION OF THE FLOAT SWITCH
◑	◑	◑	◑	◑	EEPROM ERROR/EEPROM OPTION ERROR
X	X	X	X	◑	NO MATCH BETWEEN OUTDOOR AND INDOOR

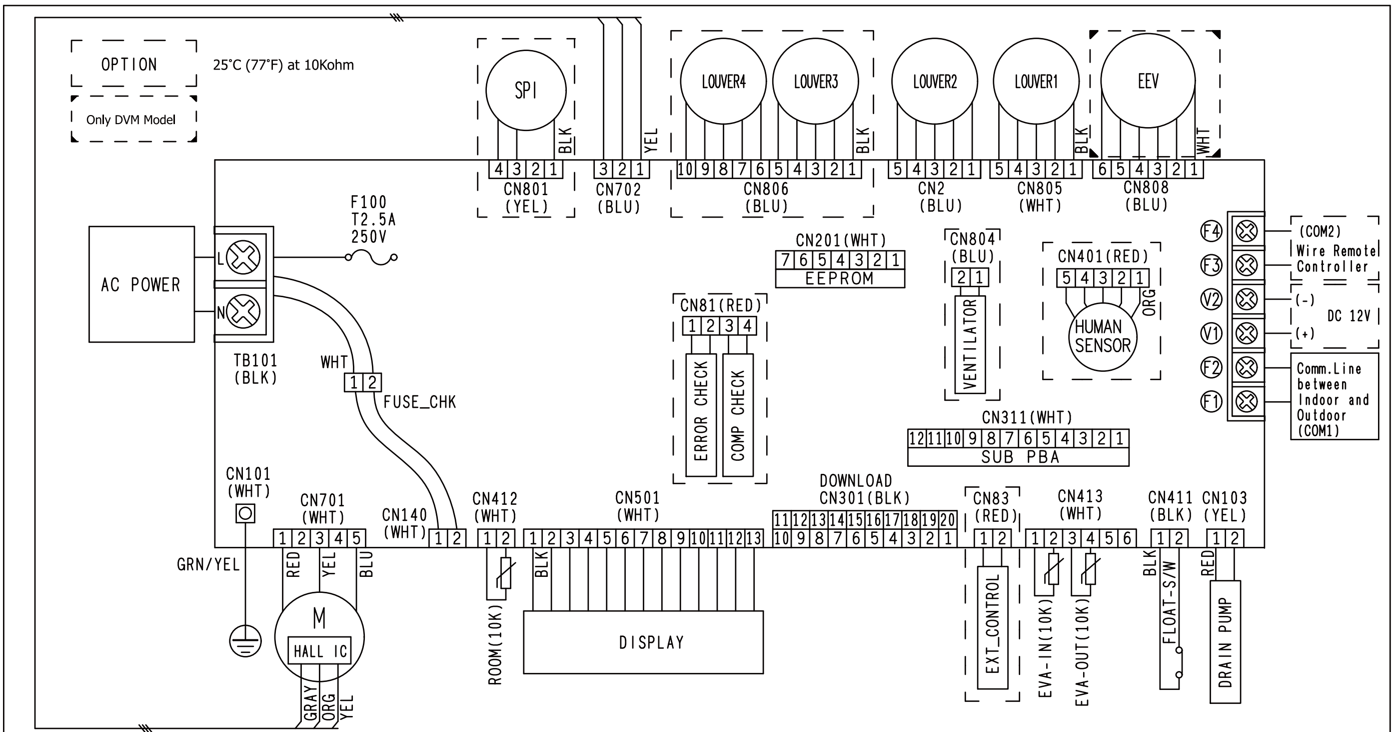
NOTE

1. This wiring diagram applies only to the indoor unit.
2. Symbols show as follow;
   BLK : black, RED : red, BLU : blue, WHT:white, YEL : yellow, BRN : brown, SKY : sky-blue, GRN : green
3. For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remotecontroller transmission F3-F4.
4. ⏚ : Protective earth(screw), ☐☐☐☐ : Connector, n/ : The wire quantity

4 Electrical wiring diagram

1Way Cassette

AM022FN1DEH/EU, AM028FN1DEH/EU, AM036FN1DEH/EU



USE COPPER SUPPLY WIRES.

UTILISER DES FILS D'ALIMENTATION EN CUIVRE.

E-PASS
DB68-03609A

DB68-03609A

LED DISPLAY FOR ERROR DETECTION

○ON ◑FLICKERING X OFF

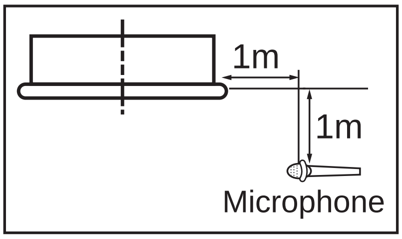
LED LAMP DISPLAY: OPERATION	DEFROST	TIMER	FAN	FILTER	
X	X	◑	X	X	ERROR OF ROOM TEMPERATURE SENSOR IN THE INDOOR UNIT(OPEN/SHORT)
◑	X	◑	X	X	ERROR OF EVA IN, OUT SENSOR IN THE INDOOR UNIT(OPEN/SHORT)
X	X	X	◑	X	ERROR OF INDOOR FAN
◑	X	X	◑	X	ERROR OF OUTDOOR SENSOR(OUTDOOR TEMP/COND/DISCHARGE)
X	X	◑	◑	X	NO COMMUNICATION FOR 2MINUTES BETWEEN INDOOR AND OUTDOOR UNIT
X	X	◑	◑	◑	ERROR OF OUTDOOR UNIT/SELF-DIAGNOSIS (Check error code at outdoor unit's or solution display)
X	X	X	◑	◑	DETECTION OF THE FLOAT SWITCH
◑	◑	◑	◑	◑	EEPROM ERROR/EEPROM OPTION ERROR
X	X	X	X	◑	NO MATCH BETWEEN OUTDOOR AND INDOOR(Only DVM Model)
◑	X	X	◑	◑	HIGH PRESSURE BLOCKAGE ERROR(Only CAC Model)

NOTE

1. This wiring diagram applies only to the indoor unit.
2. Symbols show as follow;
   BLK : black, RED : red, BLU : blue, WHT:white, YEL : yellow, BRN : brown, SKY : sky-blue, GRN : green
3. For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remotecontroller transmission F3-F4.
4. : Protective earth(screw), : Connector, n : The wire quantity

5 Sound pressure level

1Way Cassette



Unit: dB(A)

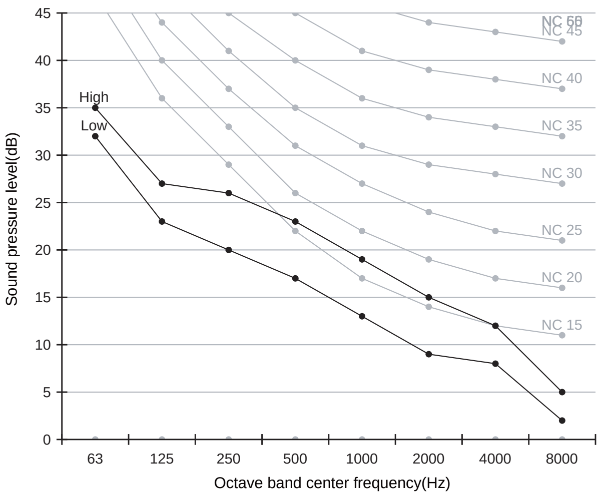
Model	High	Low
AM017HN1DEH/EU	27	21
AM022FN1DEH/EU	27	23
AM022HN1DEH/EU	27	23
AM028FN1DEH/EU	29	24

Note

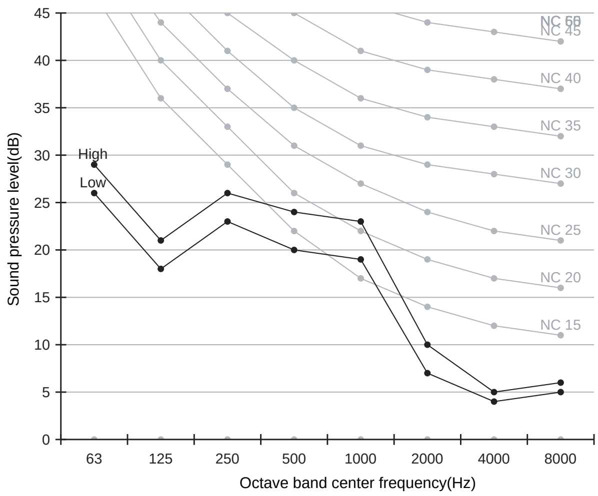
Specifications may be subject to change without prior notice.
Sound pressure level is obtained in an anechoic room.
Sound pressure level is a relative value, depending on the distance and acoustic environment.
Sound pressure level may differ depending on operation condition.
dBA = A-weighted sound pressure level
Reference acoustic pressure 0 dB= 20 uPa

NC curve

1) AM017HN1DEH/EU



2) AM022FN1DEH/EU



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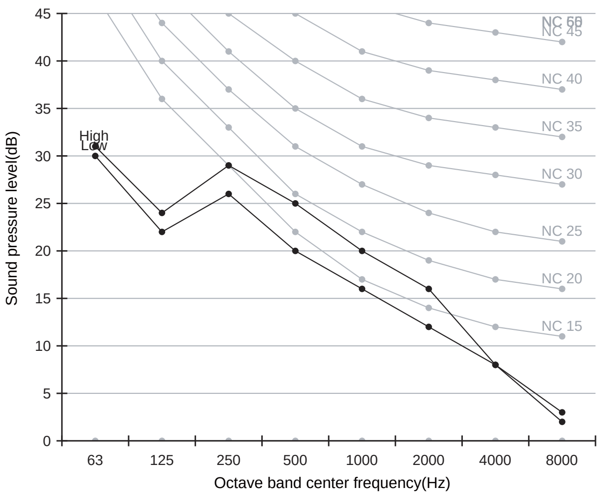
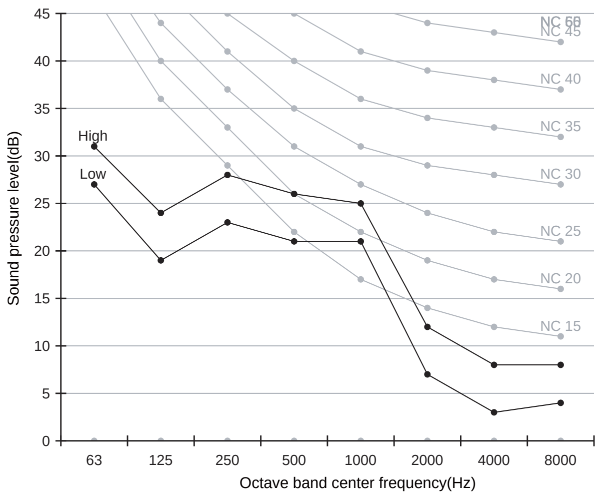
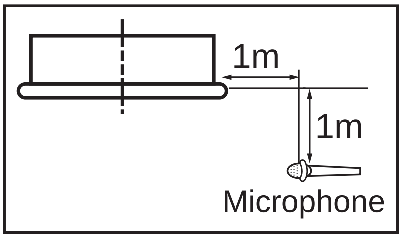


4) AM028FN1DEH/EU



5 Sound pressure level

1Way Cassette



Unit: dB(A)

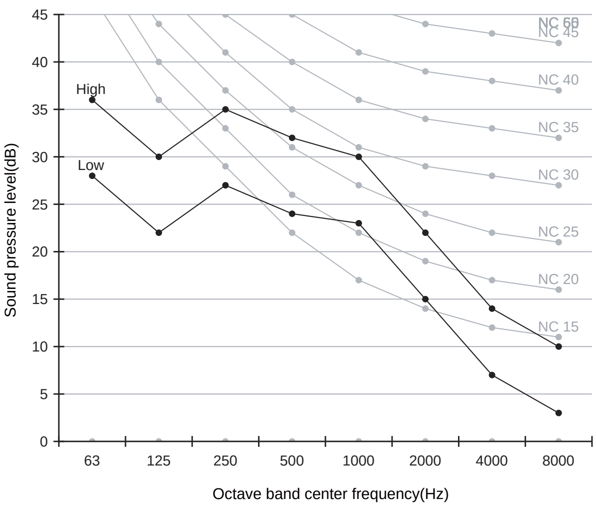
Model	High	Low
AM036FN1DEH/EU	35	27
AM056JN1DEH/EU	36	31
AM071JN1DEH/EU	39	34

Note

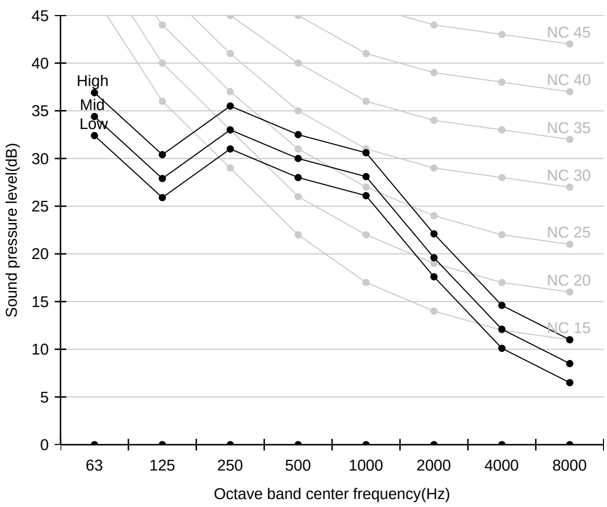
Specifications may be subject to change without prior notice.
Sound pressure level is obtained in an anechoic room.
Sound pressure level is a relative value, depending on the distance and acoustic environment.
Sound pressure level may differ depending on operation condition.
dBA = A-weighted sound pressure level
Reference acoustic pressure 0 dB= 20 uPa

NC curve

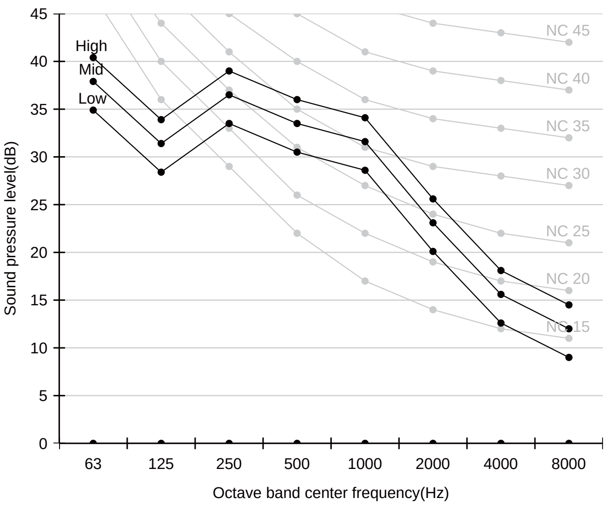
1) AM036FN1DEH/EU



2) AM056JN1DEH/EU



3) AM071JN1DEH/EU



6 Sound power level

1Way Cassette

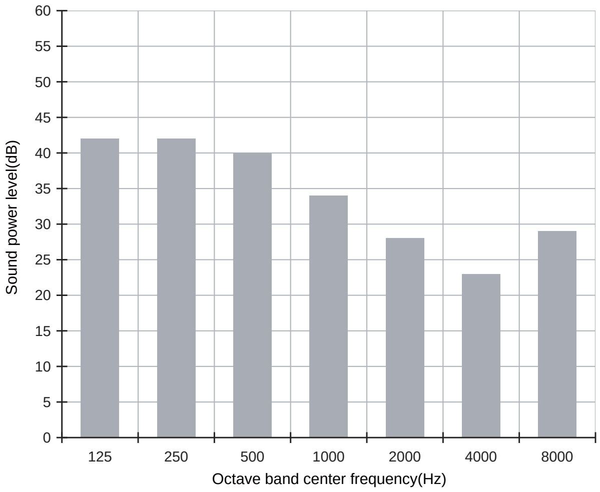
Note

. Specifications may be subject to change without prior notice.
. Sound power level is an absolute value that a sound source generates.
. dBA = A-weighted sound power level.
. Reference power : 1pW.
. Measured according to ISO 3741

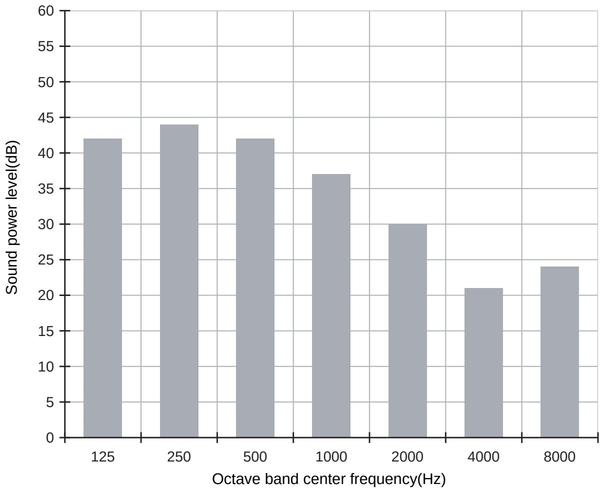
Unit: dB(A)

Model	Power
AM017HN1DEH/EU	43
AM022FN1DEH/EU	45
AM022HN1DEH/EU	46
AM028FN1DEH/EU	48

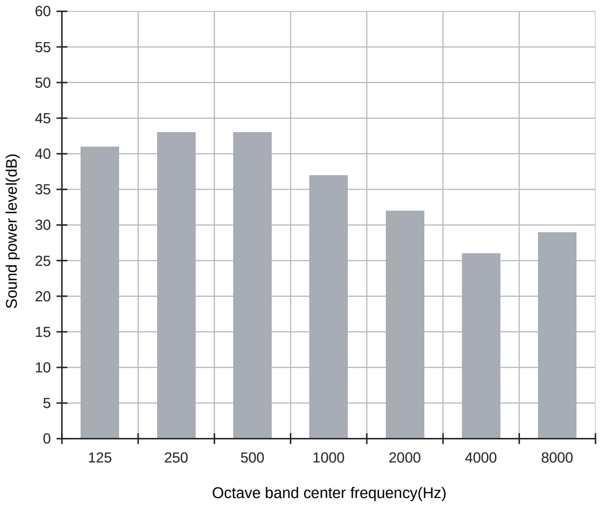
1)AM017HN1DEH/EU



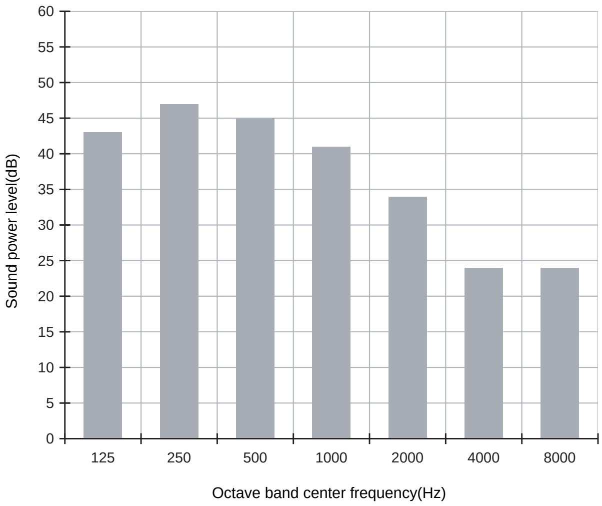
2)AM022FN1DEH/EU



3)AM022HN1DEH/EU



4)AM028FN1DEH/EU



6 Sound power level

1Way Cassette

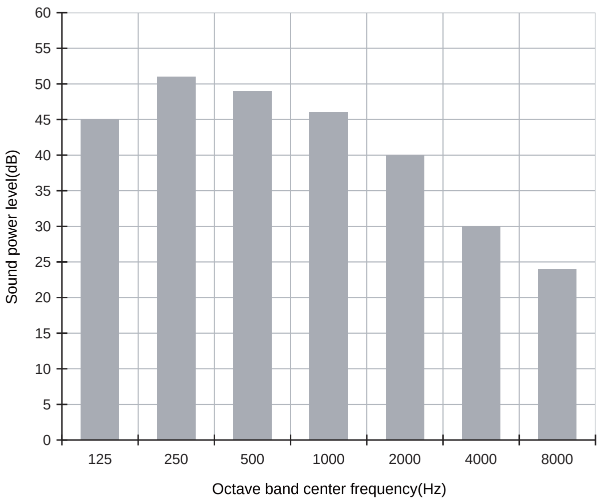
Note

. Specifications may be subject to change without prior notice.
. Sound power level is an absolute value that a sound source generates.
. dBA = A-weighted sound power level.
. Reference power : 1pW.
. Measured according to ISO 3741

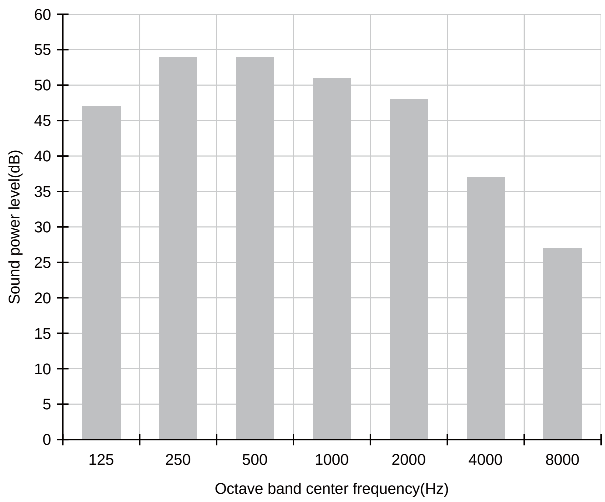
Unit: dB(A)

Model	Power
AM036FN1DEH/EU	52
AM056JN1DEH/EU	58
AM071JN1DEH/EU	60

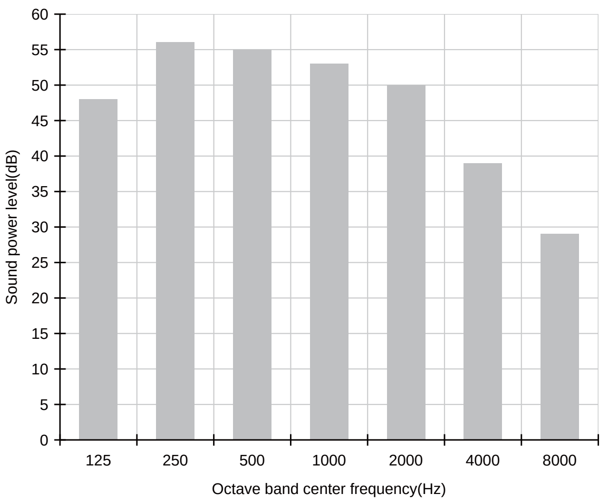
1)AM036FN1DEH/EU



2)AM056JN1DEH/EU



3)AM071JN1DEH/EU



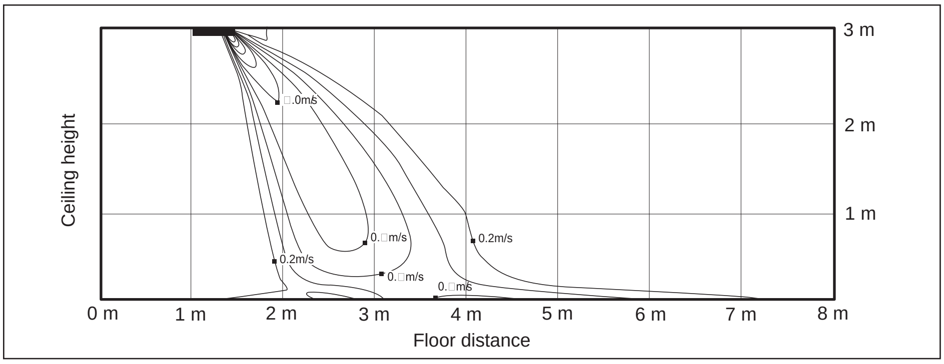
7 Temperature and air flow distribution

1 Way Cassette

AM036FN1DEH/EU

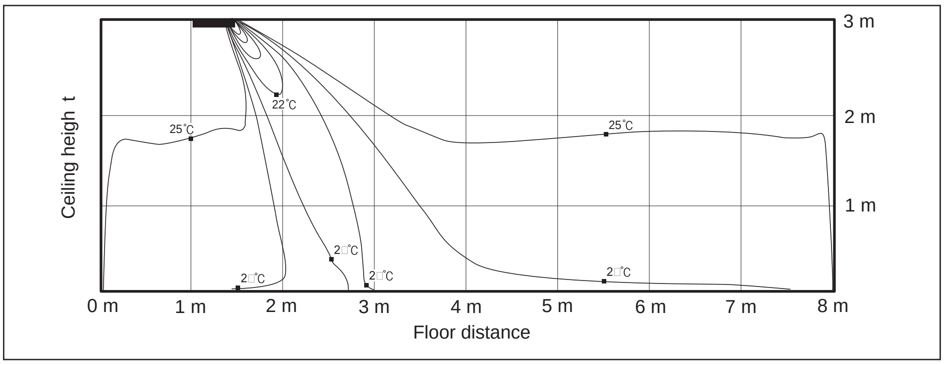
(1) Cooling air velocity distribution

Discharge angle : 60º



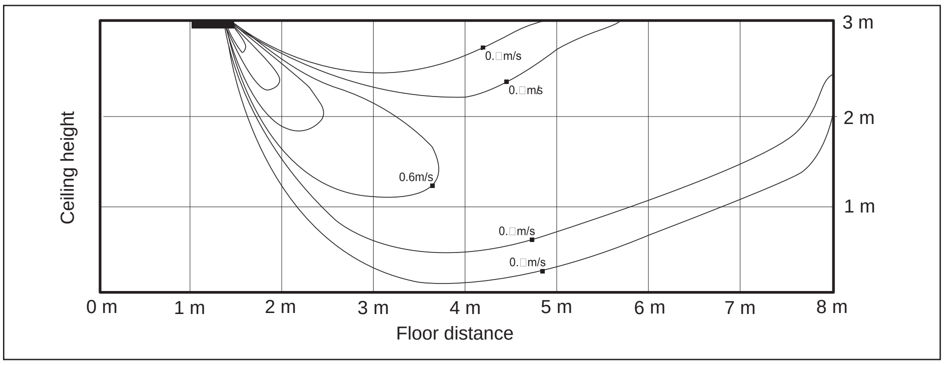
(2) Cooling temperature distribution

Discharge angle : 60º



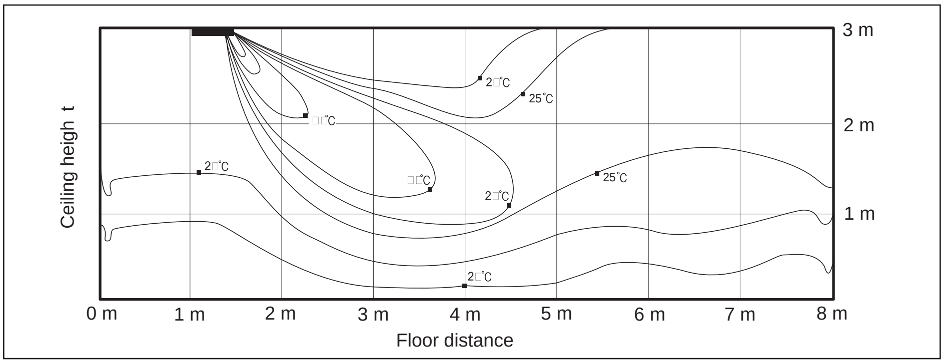
(3) Heating air velocity distribution

Discharge angle : 60º



(4) Heating temperature distribution

Discharge angle : 60º

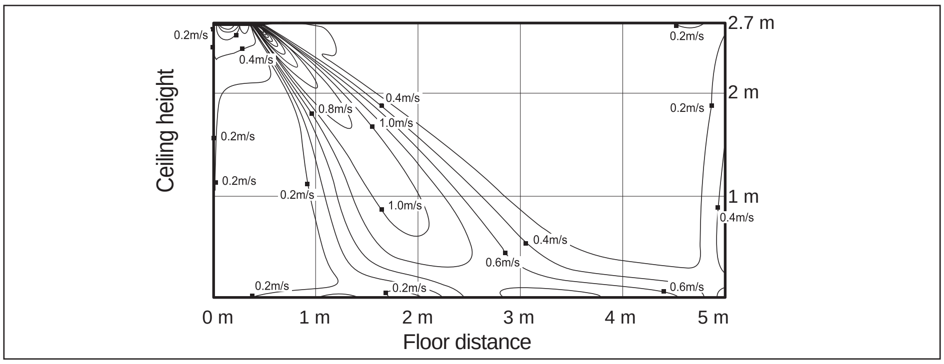


1 Way Cassette

AM056JN1DEH/EU

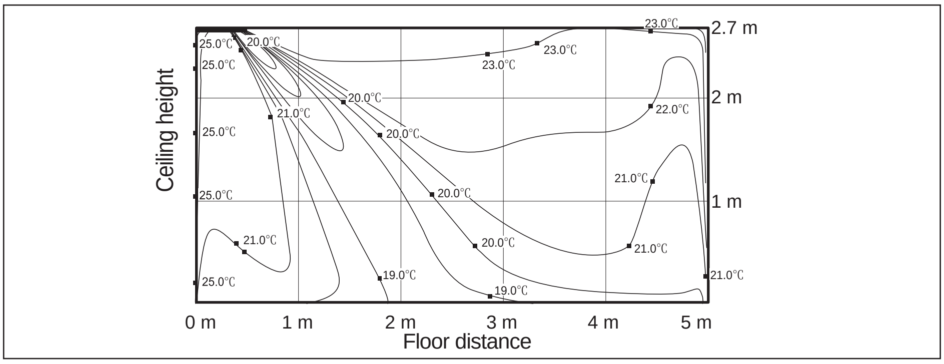
(1) Cooling air velocity distribution

Discharge angle : 50º



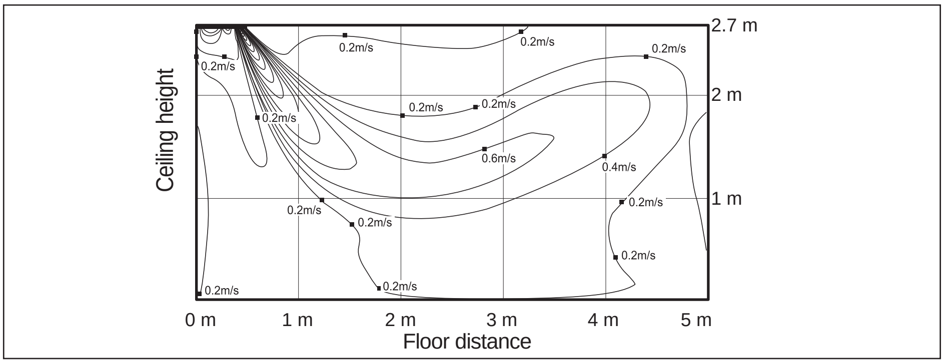
(2) Cooling temperature distribution

Discharge angle : 50º



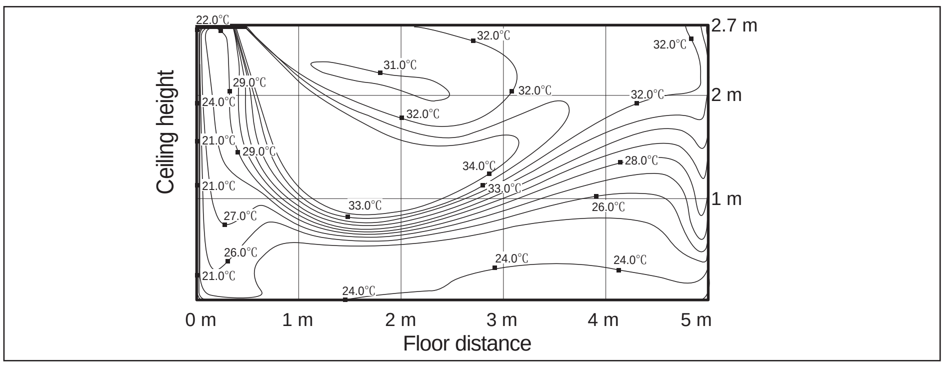
(3) Heating air velocity distribution

Discharge angle : 60º



(4) Heating temperature distribution

Discharge angle : 60º



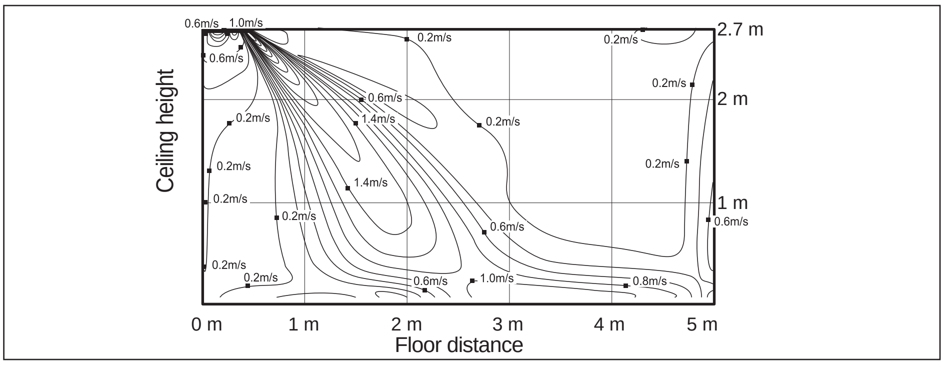
7 Temperature and air flow distribution

1 Way Cassette

AM071JN1DEH/EU

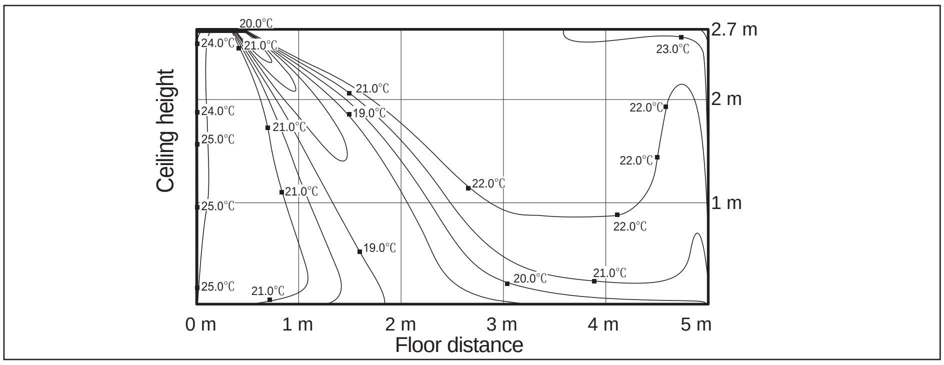
(1) Cooling air velocity distribution

Discharge angle : 50º



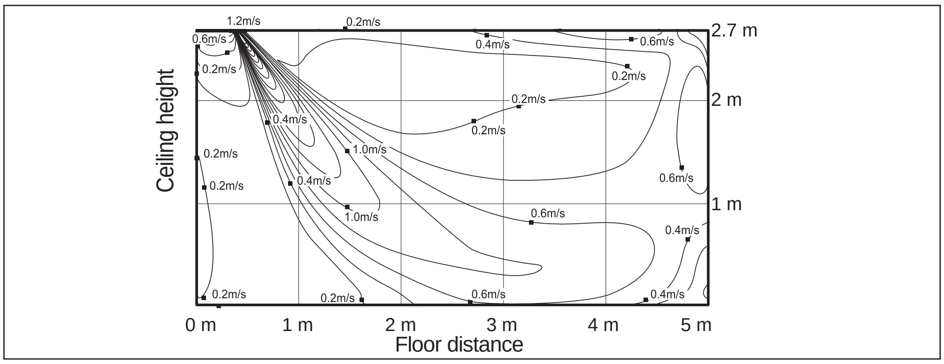
(2) Cooling temperature distribution

Discharge angle : 50º



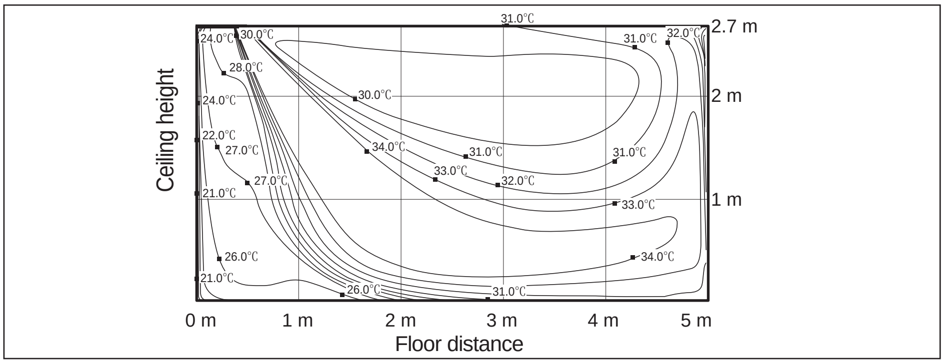
(3) Heating air velocity distribution

Discharge angle : 60º



(4) Heating temperature distribution

Discharge angle : 60º



2Way Cassette

2Way Cassette

1) Technical specifications

				AM056FN2DEH✳✳✳	AM071FN2DEH✳✳✳
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.

* Heat Exchanger type : Fin & Tube (Fin : Al, Tube : Cu)

2 Capacity table

2Way Cassette

1) Cooling

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

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

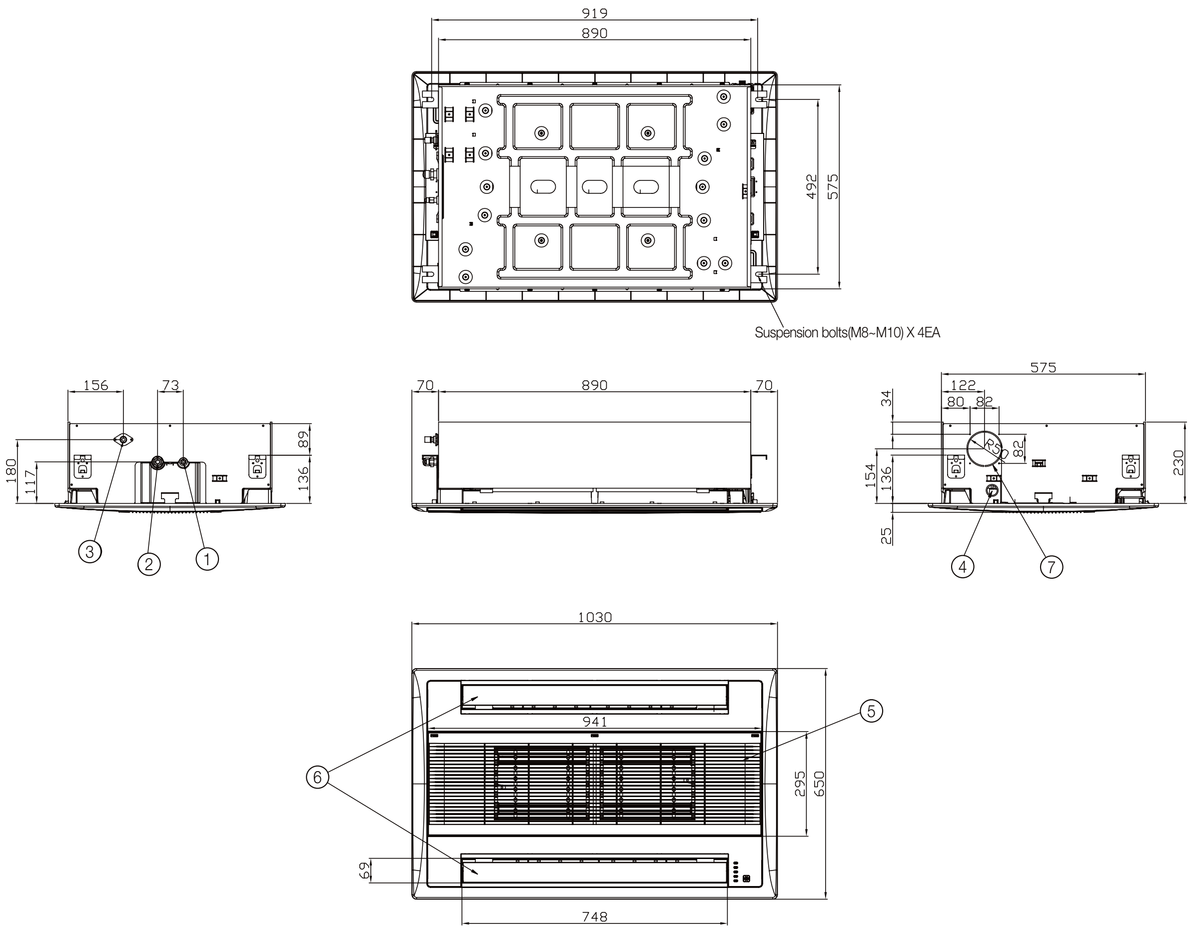
2) Heating

TC : Total Capacity(kW)

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

3 Dimensional drawing

2Way Cassette

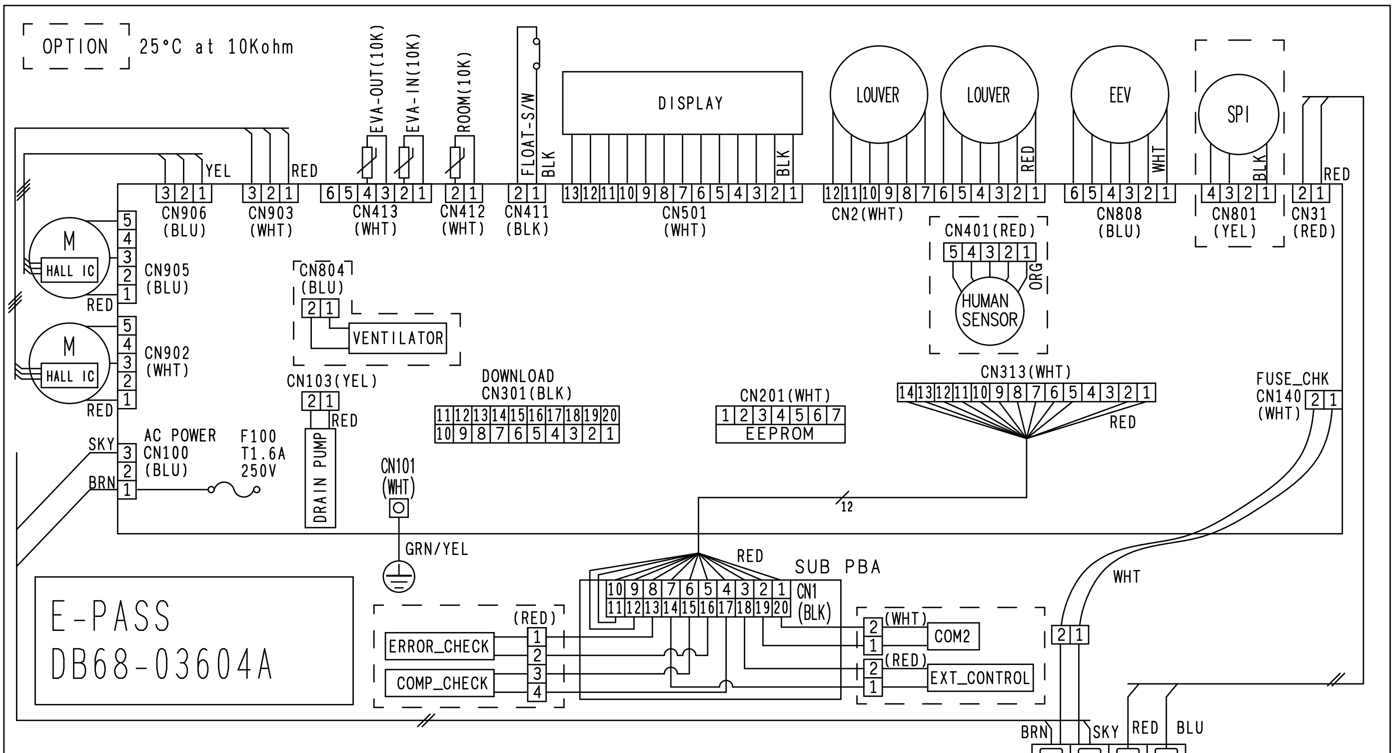


No.	Name	Description	
		5.6kW	7.1kW
1	Liquid pipe connection	Ø6.35 Flare	Ø9.52 Flare
2	Gas pipe connection	Ø12.70 Flare	Ø15.88 Flare
3	Drain pipe connection	VP25 (OD 32, ID 25)	
4	Conduit for power supply & communication wiring	-	
5	Air inlet grille	-	
6	Air outlet louver	-	
7	Fresh air intake	-	

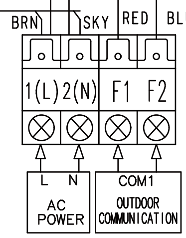
4 Electrical wiring diagram

2Way Cassette

AM056FN2DEH/EU, AM071FN2DEH/EU



LED LAMP DISPLAY: OPERATION	DEFROST	TIMER	FAN	FILTER	LED DISPLAY FOR ERROR DETECTION (○ ON ◑ FLICKERING X OFF)
X	X	◑	X	X	ERROR OF TEMPERATURE SENSOR IN THE INDOOR UNIT(OPEN/SHORT)
◑	X	◑	X	X	ERROR OF EVA IN,OUT SENSOR IN THE INDOOR UNIT(OPEN/SHORT)
X	X	X	◑	X	ERROR OF INDOOR FAN
◑	X	X	◑	X	ERROR OF OUTDOOR SENSOR(OUTDOOR TEMP./COND/DISCHARGE)
X	X	◑	◑	X	NO COMMUNICATION FOR 2 MINUTES BETWEEN INDOOR AND OUTDOOR UNIT
X	X	◑	◑	◑	ERROR OF OUTDOOR UNIT/SELF-DIAGNOSIS (Check error code at outdoor unit's or solution display)
X	X	X	◑	◑	DETECTION OF THE FLOAT SWITCH
◑	◑	◑	◑	◑	EEPROM ERROR/EEPROM OPTION ERROR
X	X	X	X	◑	NO MATCH BETWEEN OUTDOOR &INDOOR



USE COPPER SUPPLY WIRES.
UTILISER DES FILS D'ALIMENTATION EN CUIVRE.

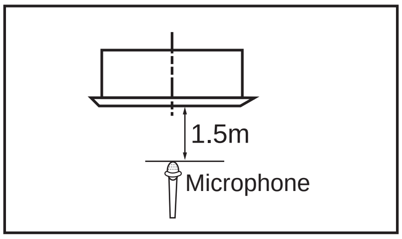
DB68-03604A

NOTE

1. This wiring diagram applies only to the indoor unit.
2. Symbols show as follow;
   BLK : black, RED : red, BLU : blue, WHT:white, YEL : yellow, BRN : brown, SKY : sky-blue, GRN : green
3. For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remotecontroller transmission F3-F4.
4. ⏚ : Protective earth(screw), ▭▭▭▭ : Connector, n/ : The wire quantity

5 Sound pressure level

2Way Cassette



Unit: dB(A)

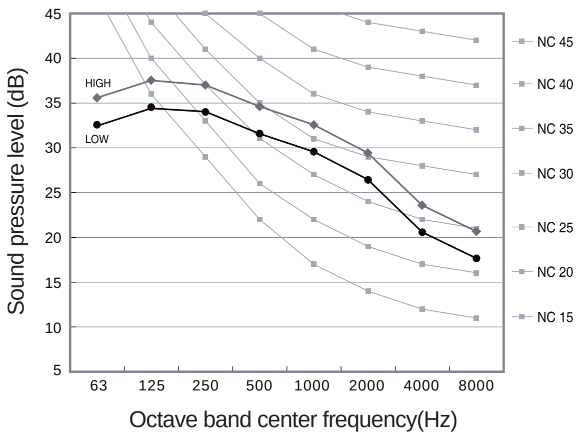
Model	High	Low
AM056FN2DEH/EU	38	35
AM071FN2DEH/EU	41	37

Note

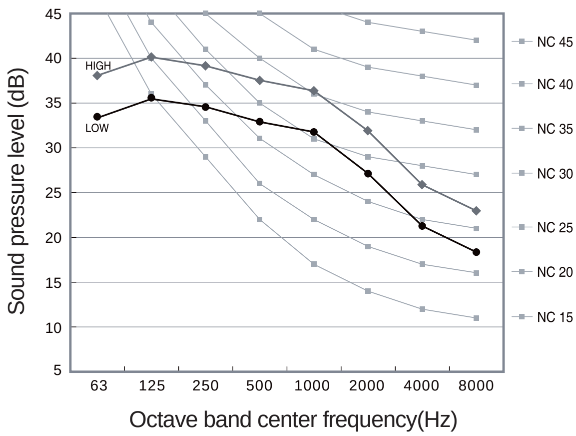
Specifications may be subject to change without prior notice.
Sound pressure level is obtained in an anechoic room.
Sound pressure level is a relative value, depending on the distance and acoustic environment.
Sound pressure level may differ depending on operation condition.
dBA = A-weighted sound pressure level
Reference acoustic pressure 0 dB= 20 uPa

NC curve

1) AM056FN2DEH/EU



2) AM071FN2DEH/EU

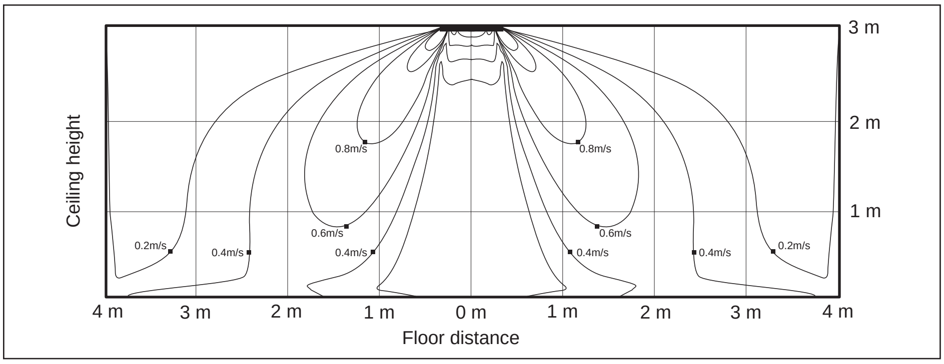


2Way Cassette

AM071FN2DEH/EU

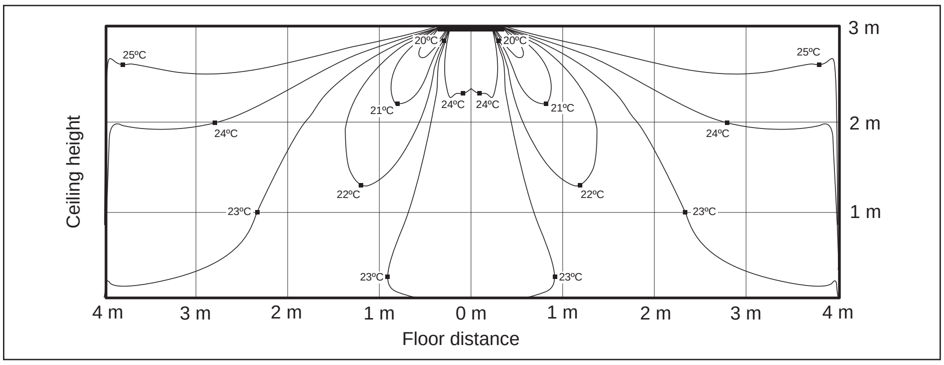
(1) Cooling air velocity distribution

Discharge angle : 54º



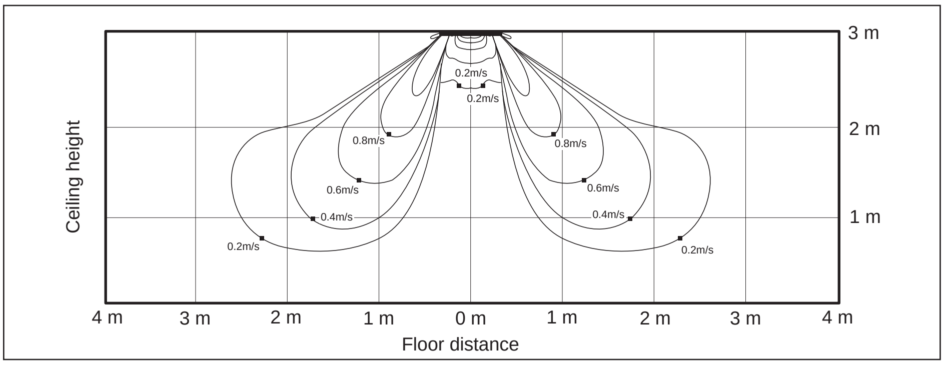
(2) Cooling temperature distribution

Discharge angle : 54º



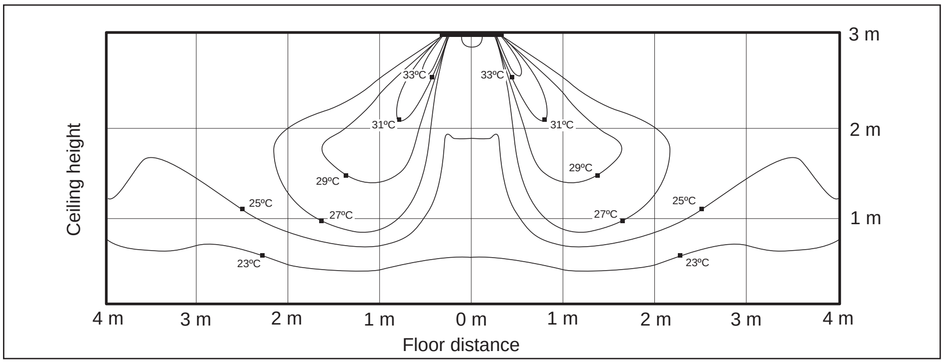
(3) Heating air velocity distribution

Discharge angle : 54º



(4) Heating temperature distribution

Discharge angle : 54º



4Way Cassette S(600x600)

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 / 28 / 23	32 / 29 / 25
	Power	Cooling		46	47
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		-	PC4SUSMBN	PC4SUSMBN
	Panel Net Weight		kg	2.3	2.3
	Shipping Weight		kg	3.5	3.5
	Net Dimensions (WxHxD)		mm	620 x 45 x 620	620 x 45 x 620
	Shipping Dimensions (WxHxD)		mm	661 x 106 x 671	661 x 106 x 671
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℃DB / 19℃WB, Outdoor temperature 35℃DB/24℃WB, Refrigerant pipe length 7.5m, Level difference 0m.
- Nominal Heating : Indoor temperature 20℃DB/15℃WB, Outdoor temperature 7℃DB / 6℃WB, 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.

* Heat Exchanger type : Fin & Tube (Fin : Al, Tube : Cu)

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 / 30 / 26	34 / 30 / 26
	Power	Cooling		50	51
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		-	PC4SUSMBN	PC4SUSMBN
	Panel Net Weight		kg	2.3	2.3
	Shipping Weight		kg	3.5	3.5
	Net Dimensions (WxHxD)		mm	620 x 45 x 620	620 x 45 x 620
	Shipping Dimensions (WxHxD)		mm	661 x 106 x 671	661 x 106 x 671
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℃DB / 19℃WB, Outdoor temperature 35℃DB/24℃WB, Refrigerant pipe length 7.5m, Level difference 0m.
- Nominal Heating : Indoor temperature 20℃DB/15℃WB, Outdoor temperature 7℃DB / 6℃WB, 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.

* Heat Exchanger type : Fin & Tube (Fin : Al, Tube : Cu)

1 Specifications

4Way Cassette S (600 x 600)

				4Way Cassette (600 x 600)	4Way Cassette (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 / 34 / 32	39 / 36 / 33
	Power	Cooling		53	56
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		-	PC4SUSMBN	PC4SUSMBN
	Panel Net Weight		kg	2.3	2.3
	Shipping Weight		kg	3.5	3.5
	Net Dimensions (WxHxD)		mm	620 x 45 x 620	620 x 45 x 620
	Shipping Dimensions (WxHxD)		mm	661 x 106 x 671	661 x 106 x 671
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℃DB / 19℃WB, Outdoor temperature 35℃DB/24℃WB, Refrigerant pipe length 7.5m, Level difference 0m.
- Nominal Heating : Indoor temperature 20℃DB/15℃WB, Outdoor temperature 7℃DB / 6℃WB, 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.

* Heat Exchanger type : Fin & Tube (Fin : Al, Tube : Cu)

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 / 38 / 35
	Power	Cooling		57
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		-	PC4SUSMBN
	Panel Net Weight		kg	2.3
	Shipping Weight		kg	3.5
	Net Dimensions (WxHxD)		mm	620 x 45 x 620
	Shipping Dimensions (WxHxD)		mm	661 x 106 x 671
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℃DB / 19℃WB, Outdoor temperature 35℃DB/24℃WB, Refrigerant pipe length 7.5m, Level difference 0m.
- Nominal Heating : Indoor temperature 20℃DB/15℃WB, Outdoor temperature 7℃DB / 6℃WB, 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.

* Heat Exchanger type : Fin & Tube (Fin : Al, Tube : Cu)

2 Capacity table

4Way Cassette S (600 x 600)

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity

Model	Outdoor temperature (ºC, DB)	Indoor temperature (ºC, 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	1.10	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	3.70	2.80	4.20	3.00	4.50	3.00	4.50	2.90	4.60	2.70	4.80	2.50
	44	3.10	2.70	3.70	2.80	4.00	2.90	4.30	2.90	4.30	2.80	4.40	2.60	4.50	2.40

2 Capacity table

4Way Cassette S (600 x 600)

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity

Model	Outdoor temperature (ºC, DB)	Indoor temperature (ºC, 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
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 (ºC)		Indoor temperature (ºC, DB)				
			16.0	18.0	20.0	22.0	24.0
			TC	TC	TC	TC	TC
	DB	WB	kW	kW	kW	kW	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

4Way Cassette S (600 x 600)

Heating

TC : Total Capacity

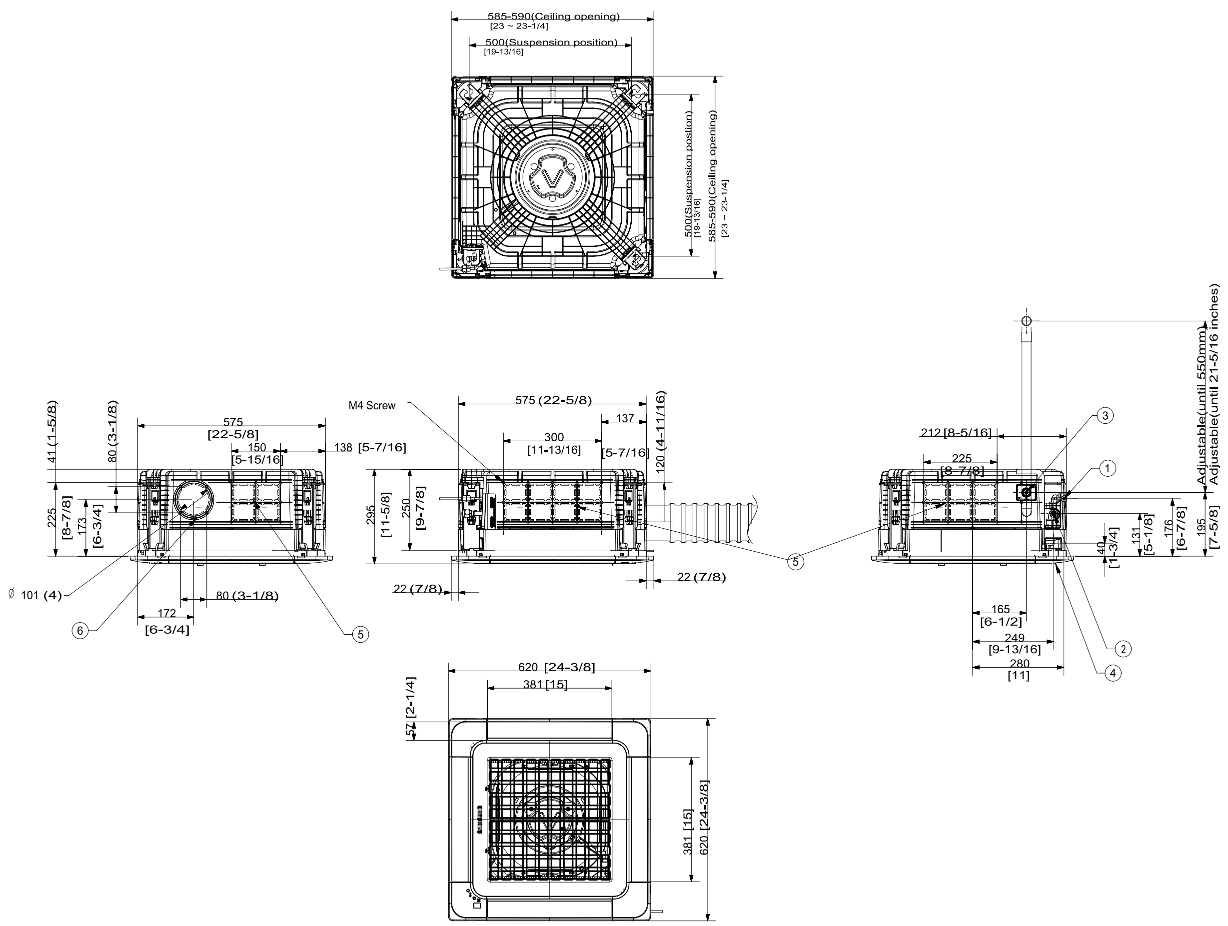
Model	Outdoor temperature (ºC)		Indoor temperature (ºC, DB)				
			16.0	18.0	20.0	22.0	24.0
			TC	TC	TC	TC	TC
	DB	WB	kW	kW	kW	kW	kW
5.60	5	4	6.20	6.10	6.00	5.70	5.30
	7	6	6.50	6.40	6.30	5.80	5.30
	9	8	6.70	6.50	6.30	5.80	5.30
	11	10	6.90	6.60	6.30	5.80	5.30
	13	12	7.10	6.70	6.30	5.80	5.30
	15	14	7.30	6.80	6.30	5.80	5.30
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, AM022FNNDEH/EU, AM028FNNDEH/EU, AM036FNNDEH/EU, AM045FNNDEH/EU, AM056FNNDEH/EU, AM060FNNDEH/EU

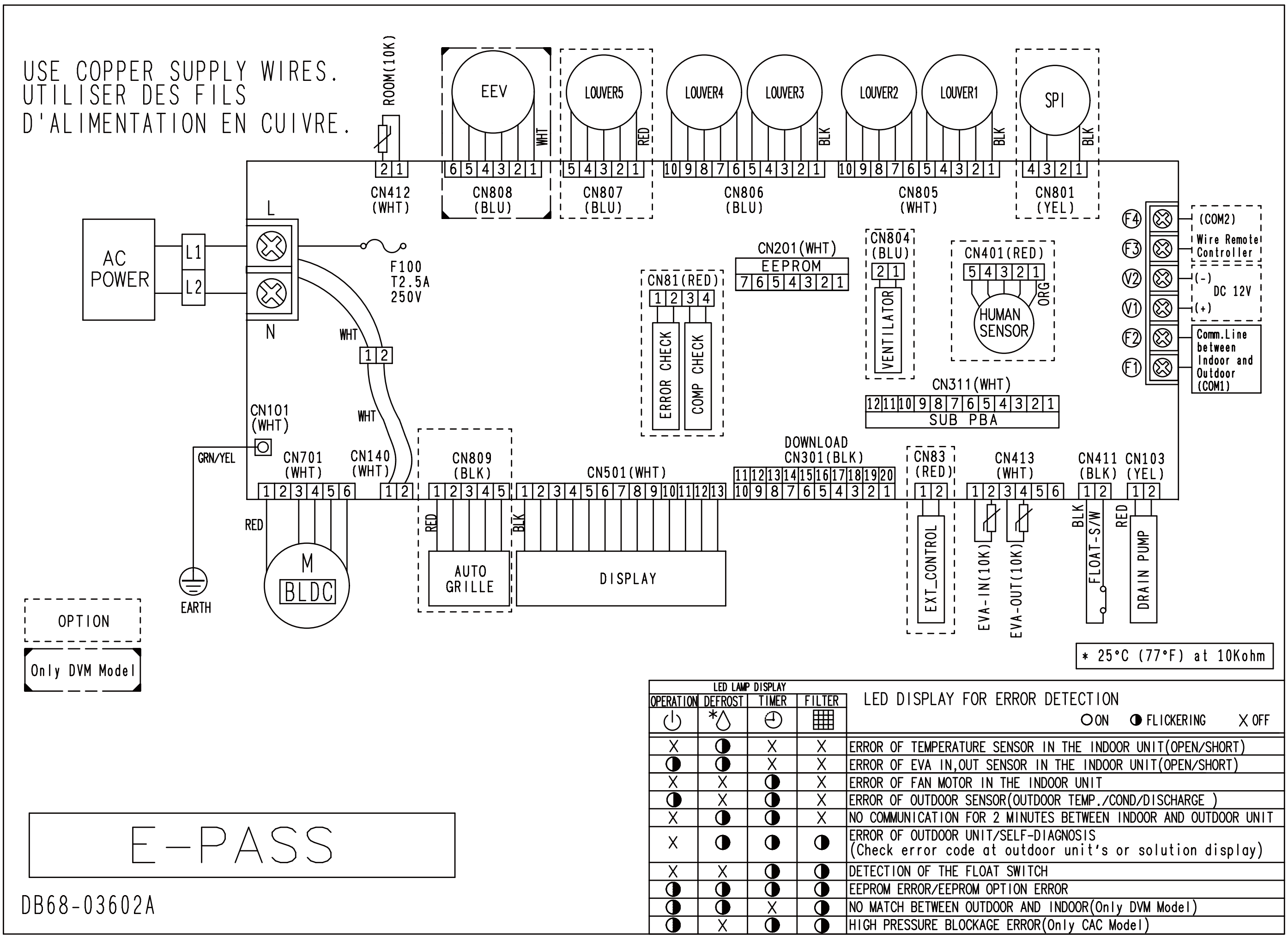
Units : mm [inches]



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

4Way Cassette S(600x600)

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



LED DISPLAY FOR ERROR DETECTION

○ ON ◑ FLICKERING X OFF

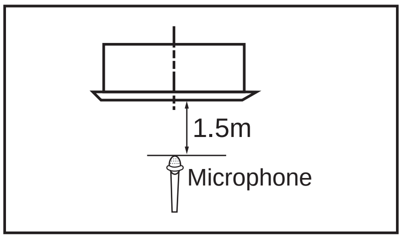
LED LAMP DISPLAY				
OPERATION	DEFROST	TIMER	FILTER	
X	◑	X	X	ERROR OF TEMPERATURE SENSOR IN THE INDOOR UNIT(OPEN/SHORT)
◑	◑	X	X	ERROR OF EVA IN,OUT SENSOR IN THE INDOOR UNIT(OPEN/SHORT)
X	X	◑	X	ERROR OF FAN MOTOR IN THE INDOOR UNIT
◑	X	◑	X	ERROR OF OUTDOOR SENSOR(OUTDOOR TEMP./COND/DISCHARGE)
X	◑	◑	X	NO COMMUNICATION FOR 2 MINUTES BETWEEN INDOOR AND OUTDOOR UNIT
X	◑	◑	◑	ERROR OF OUTDOOR UNIT/SELF-DIAGNOSIS (Check error code at outdoor unit's or solution display)
X	X	◑	◑	DETECTION OF THE FLOAT SWITCH
◑	◑	◑	◑	EEPROM ERROR/EEPROM OPTION ERROR
◑	◑	X	◑	NO MATCH BETWEEN OUTDOOR AND INDOOR(Only DVM Model)
◑	X	◑	◑	HIGH PRESSURE BLOCKAGE ERROR(Only CAC Model)

NOTE

1. This wiring diagram applies only to the indoor unit.
2. Symbols show as follow;
   BLK : black, RED : red, BLU : blue, WHT:white, YEL : yellow, BRN : brown, SKY : sky-blue, GRN : green
3. For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remotecontroller transmission F3-F4.
4. ⏚ : Protective earth(screw), ☐☐☐☐ : Connector, n/ : The wire quantity

5 Sound pressure level

4Way Cassette S (600 x 600)



Unit: dB(A)

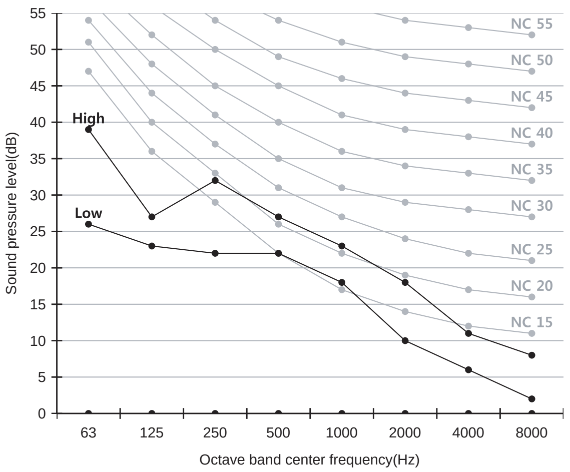
Model	High	Low
AM015HNNDEH/EU	30	23
AM022FNNDEH/EU	32	25
AM028FNNDEH/EU	33	26
AM036FNNDEH/EU	34	26

Note

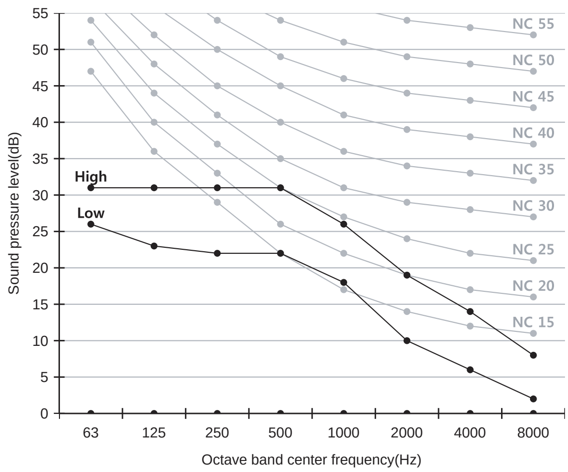
Specifications may be subject to change without prior notice.
Sound pressure level is obtained in an anechoic room.
Sound pressure level is a relative value, depending on the distance and acoustic environment.
Sound pressure level may differ depending on operation condition.
dBA = A-weighted sound pressure level
Reference acoustic pressure 0 dB= 20 uPa

NC curve

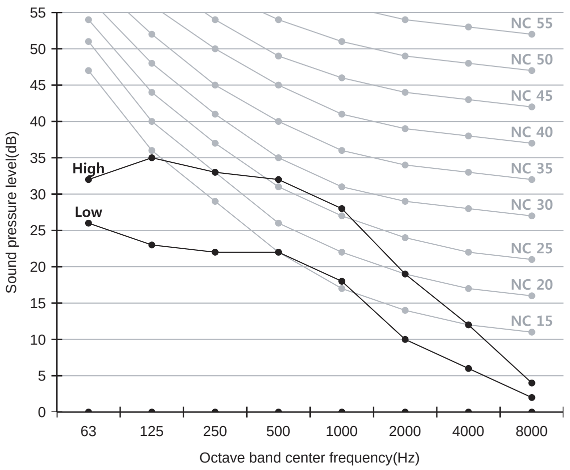
1) AM015HNNDEH/EU



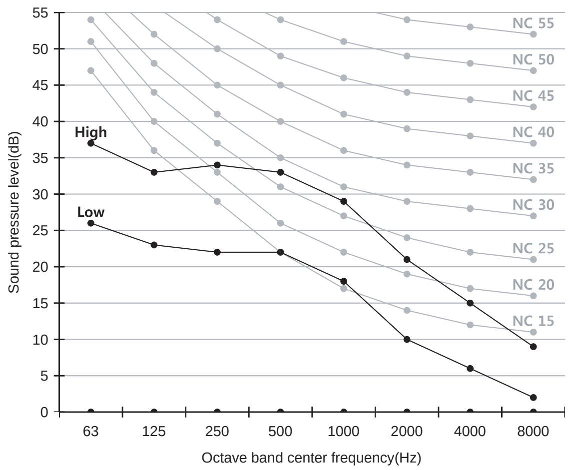
2) AM022FNNDEH/EU



3) AM028FNNDEH/EU

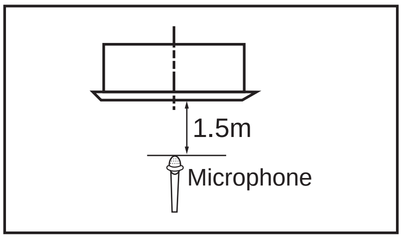


4) AM036FNNDEH/EU



5 Sound pressure level

4Way Cassette S (600 x 600)



Unit: dB(A)

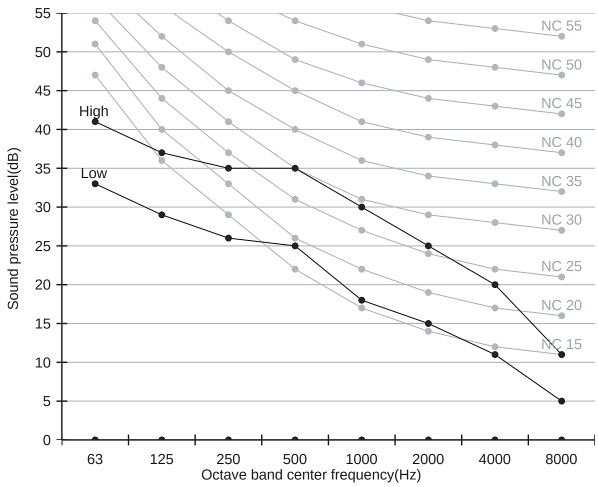
Model	High	Low
AM045FNNDEH/EU	36	32
AM056FNNDEH/EU	39	33
AM060FNNDEH/EU	40	35

Note

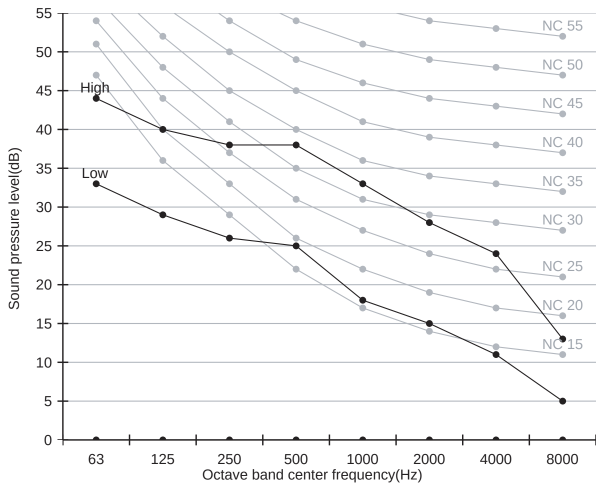
Specifications may be subject to change without prior notice.
Sound pressure level is obtained in an anechoic room.
Sound pressure level is a relative value, depending on the distance and acoustic environment.
Sound pressure level may differ depending on operation condition.
dBA = A-weighted sound pressure level
Reference acoustic pressure 0 dB= 20 uPa

NC curve

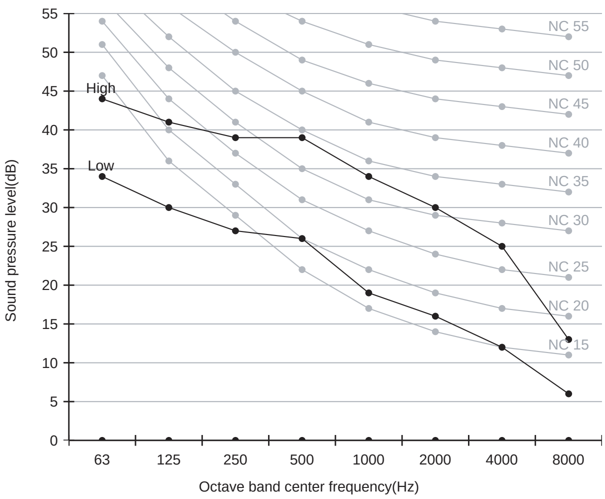
1) AM045FNNDEH/EU



2) AM056FNNDEH/EU



3) AM060FNNDEH/EU



6 Sound power level

4Way Cassette S (600 x 600)

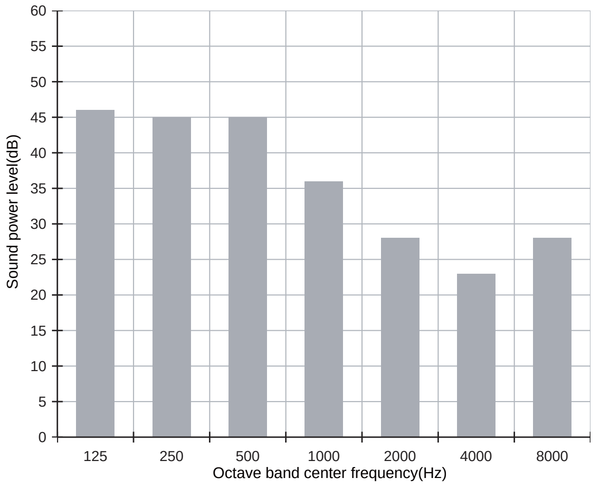
Note

. Specifications may be subject to change without prior notice.
. Sound power level is an absolute value that a sound source generates.
. dBA = A-weighted sound power level.
. Reference power : 1pW.
. Measured according to ISO 3741

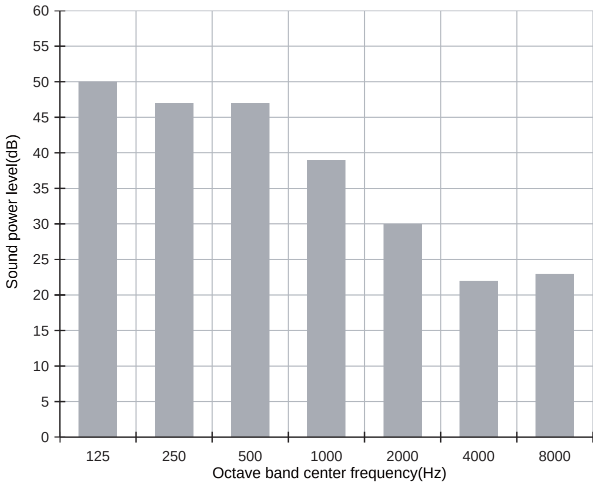
Unit: dB(A)

Model	Power
AM015HNNDEH/EU	46
AM022FNNDEH/EU	47
AM028FNNDEH/EU	50
AM036FNNDEH/EU	51

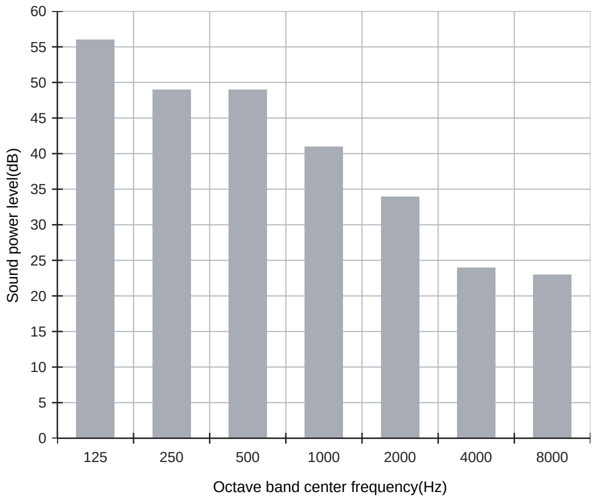
1)AM015HNNDEH/EU



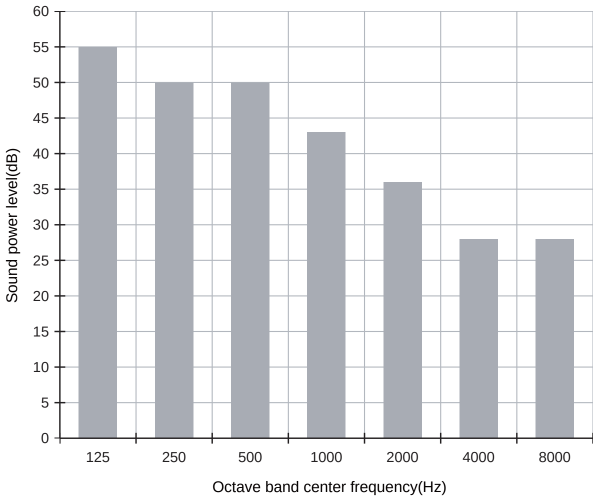
2)AM022FNNDEH/EU



3)AM028FNNDEH/EU



4)AM036FNNDEH/EU



6 Sound power level

4Way Cassette S (600 x 600)

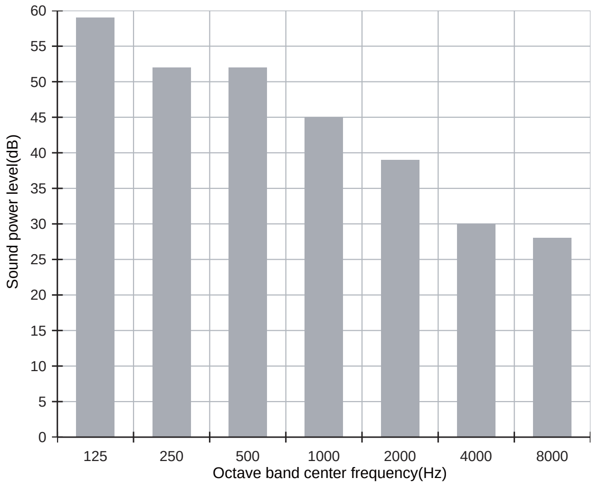
Note

. Specifications may be subject to change without prior notice.
. Sound power level is an absolute value that a sound source generates.
. dBA = A-weighted sound power level.
. Reference power : 1pW.
. Measured according to ISO 3741

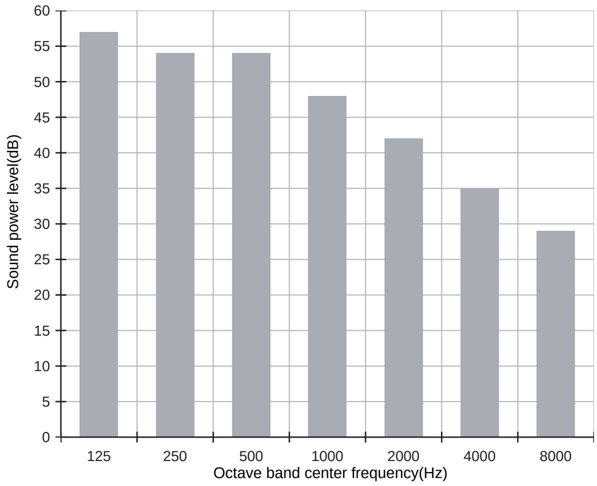
Unit: dB(A)

Model	Power
AM045FNNDEH/EU	53
AM056FNNDEH/EU	56
AM060FNNDEH/EU	57

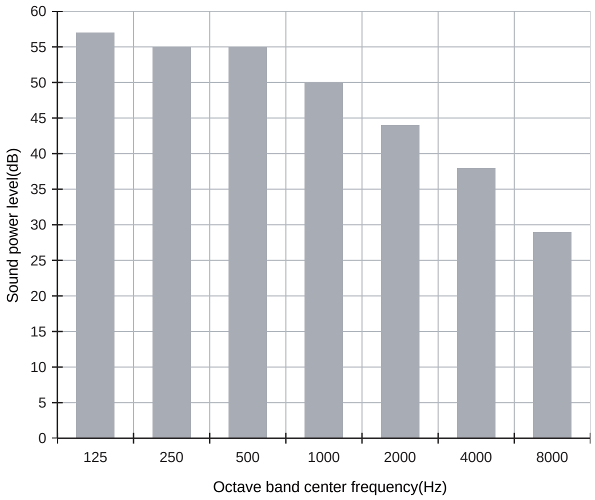
1)AM045FNNDEH/EU



2)AM056FNNDEH/EU



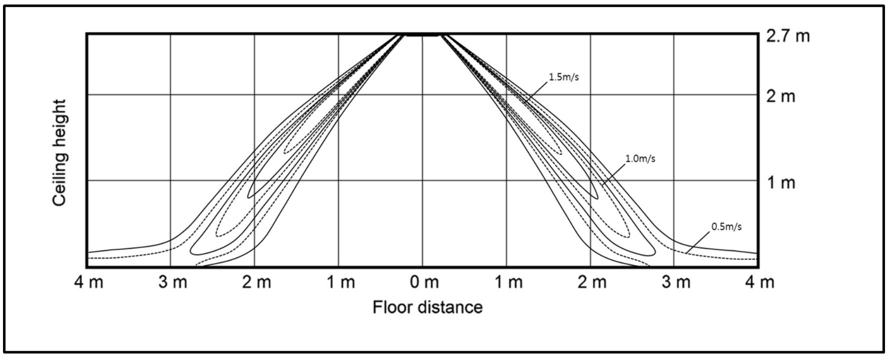
3)AM060FNNDEH/EU



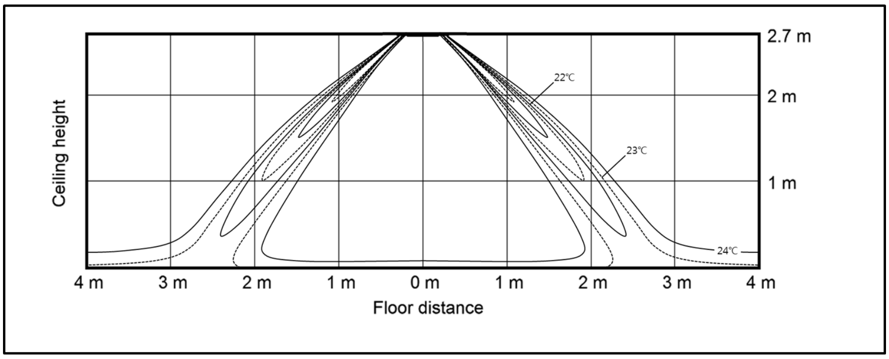
4Way Cassette S(600x600)

AM015HNNDEHEU

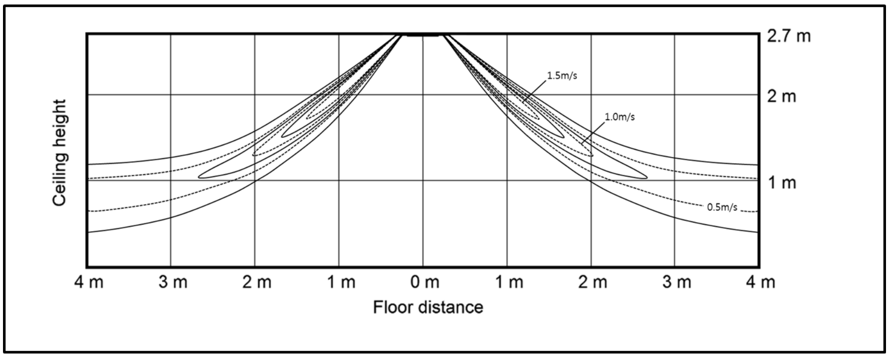
(1) Cooling air velocity distribution
Discharge angle : 41º



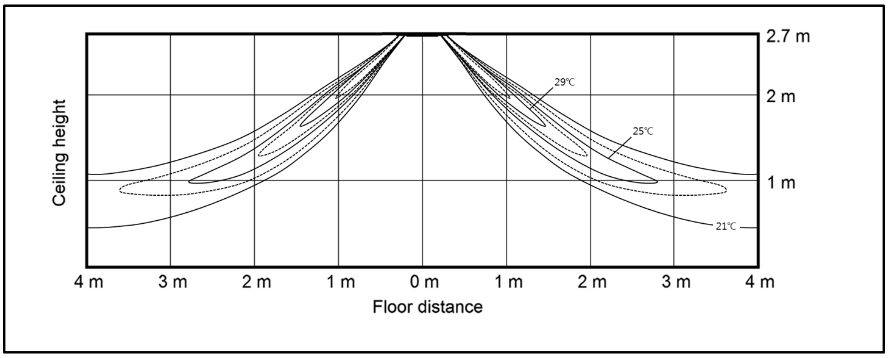
(2) Cooling temperature distribution
Discharge angle : 41º



(3) Heating air velocity distribution
Discharge angle : 43º



(4) Heating temperature distribution
Discharge angle : 43º



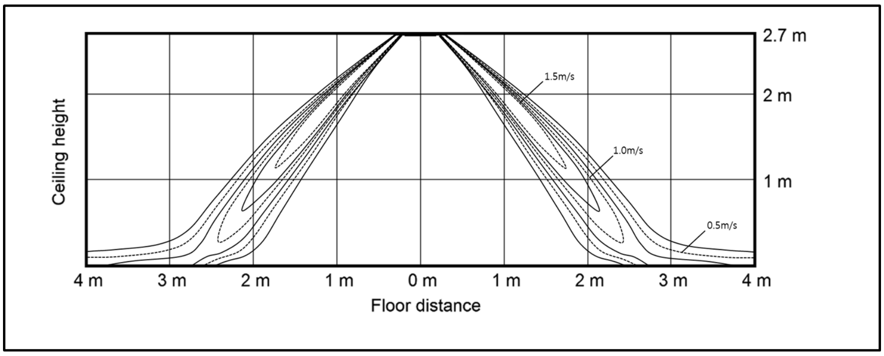
7 Temperature and air flow distribution

4Way Cassette S(600x600)

AM022FNNDEH/EU

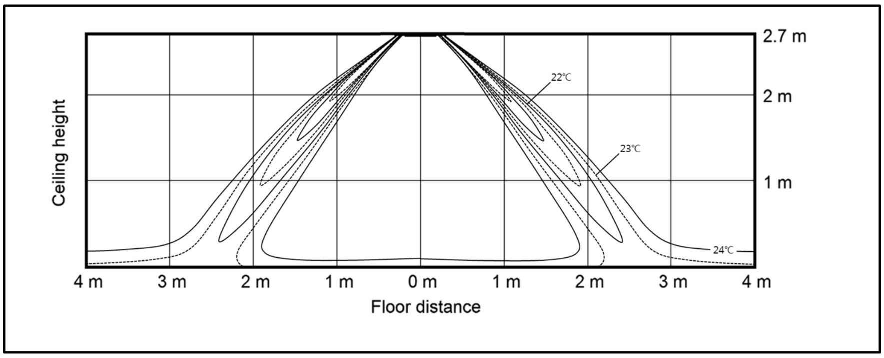
(1) Cooling air velocity distribution

Discharge angle : 41º



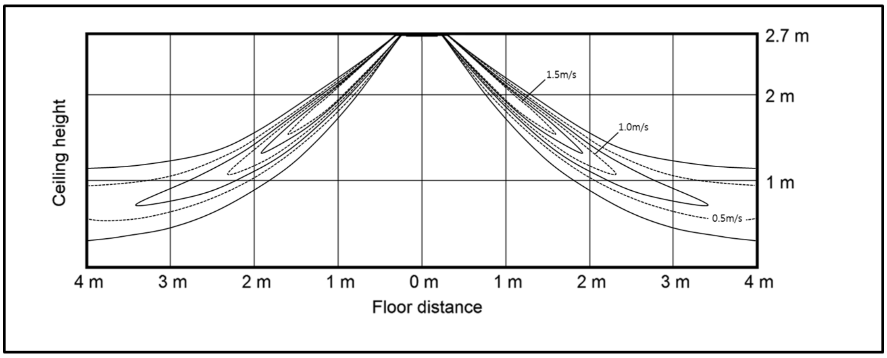
(2) Cooling temperature distribution

Discharge angle : 41º



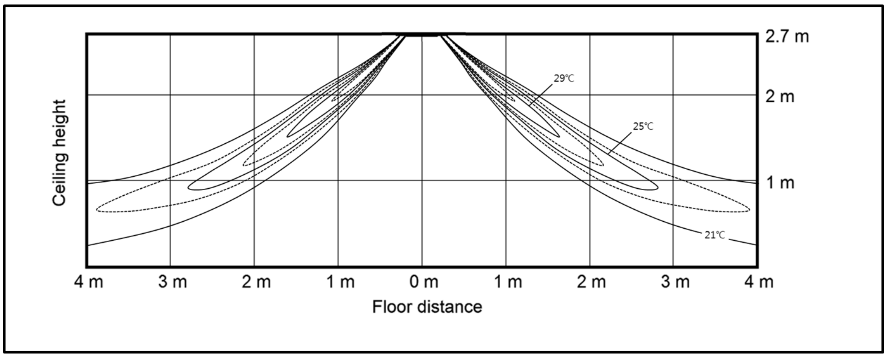
(3) Heating air velocity distribution

Discharge angle : 43º



(4) Heating temperature distribution

Discharge angle : 43º



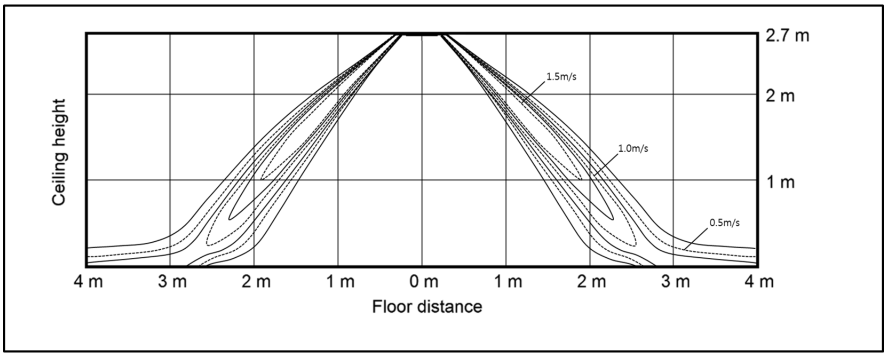
7 Temperature and air flow distribution

4Way Cassette S(600x600)

AM028FNNDEH/EU

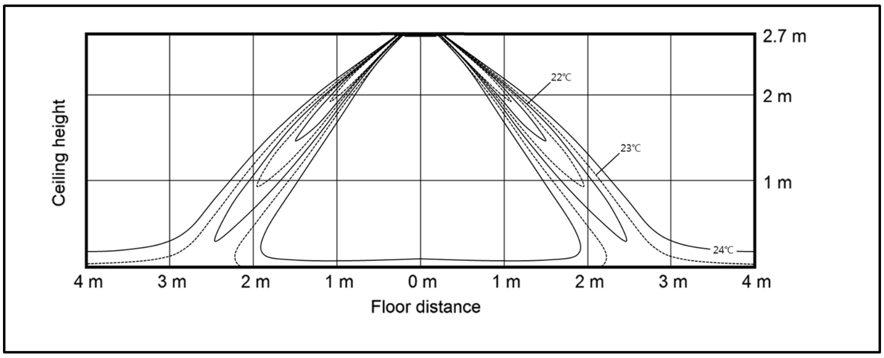
(1) Cooling air velocity distribution

Discharge angle : 41º



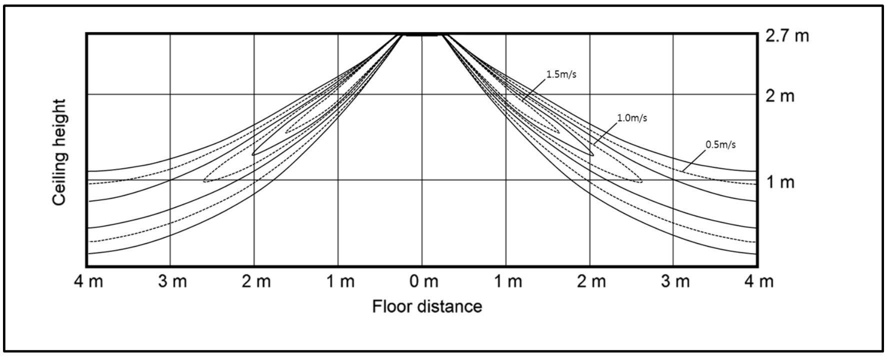
(2) Cooling temperature distribution

Discharge angle : 41º



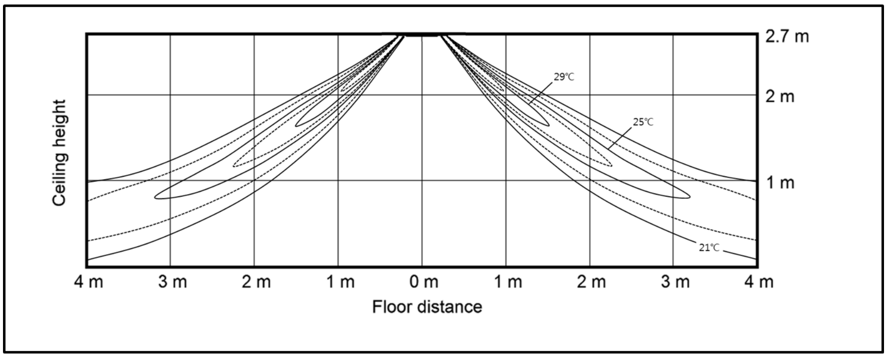
(3) Heating air velocity distribution

Discharge angle : 43º



(4) Heating temperature distribution

Discharge angle : 43º



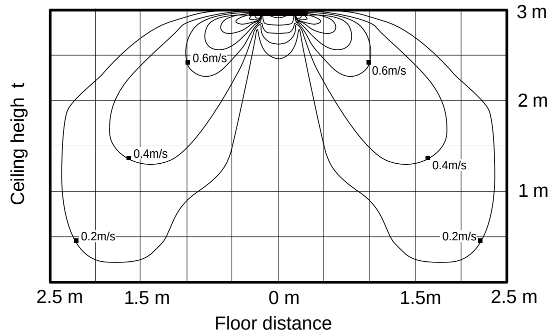
7 Temperature and air flow distribution

4Way Cassette S(600x600)

AM036FNNDEH/EU

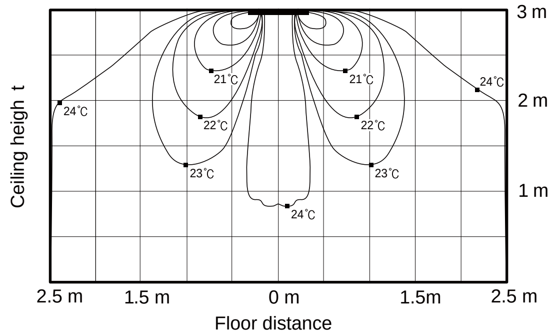
(1) Cooling air velocity distribution

Discharge angle : 37º



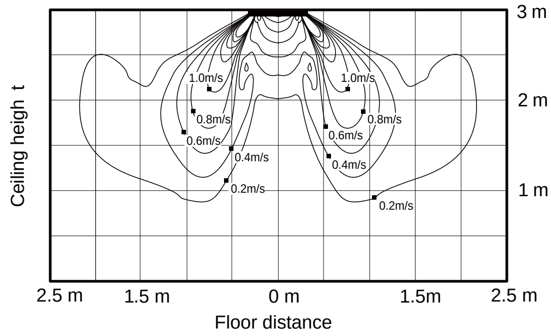
(2) Cooling temperature distribution

Discharge angle : 37º



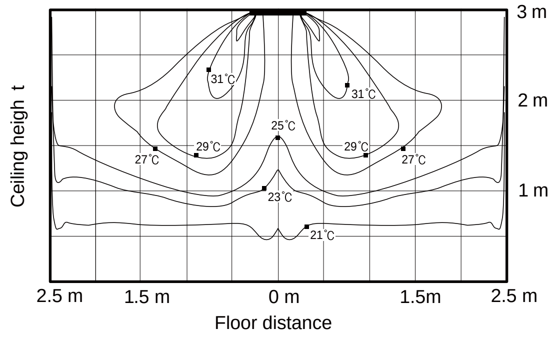
(3) Heating air velocity distribution

Discharge angle : 49º



(4) Heating temperature distribution

Discharge angle : 49º

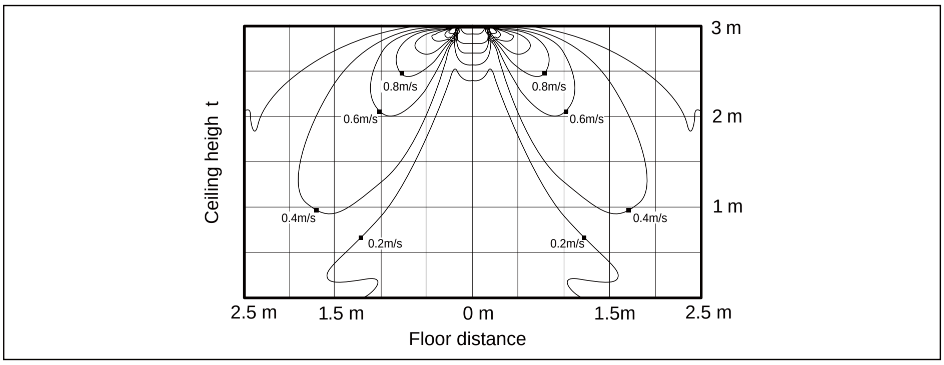


4Way Cassette S(600x600)

AM060FNNDEH/EU

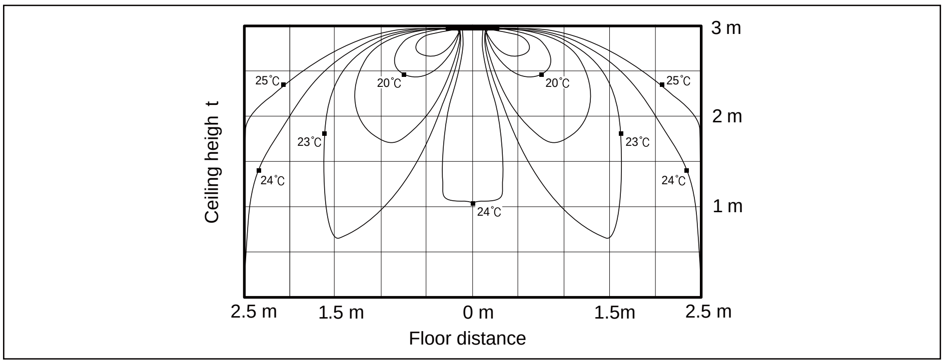
(1) Cooling air velocity distribution

Discharge angle : 37º



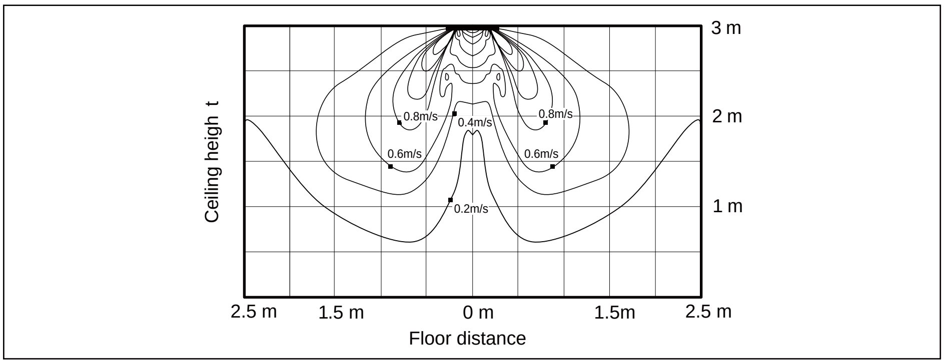
(2) Cooling temperature distribution

Discharge angle : 37º



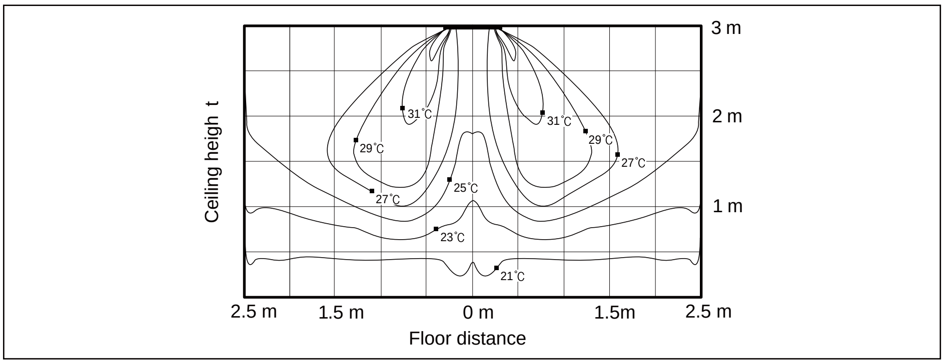
(3) Heating air velocity distribution

Discharge angle : 49º



(4) Heating temperature distribution

Discharge angle : 49º



4Way Cassette

1. Specification

4Way Cassette

Type				4Way Cassette	4Way Cassette	4Way Cassette	4Way Cassette
Model Name				AM045FN4DEH✗✗✗	AM056FN4DEH✗✗✗	AM071FN4DEH✗✗✗	AM090FN4DEH✗✗✗
Power Supply			Φ, #, 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	4.5	5.6	7.1	9.0
			Btu/h	15,400	19,100	24,200	30,700
		Heating	kW	5.0	6.3	8.0	10.0
			Btu/h	17,100	21,500	27,300	34,100
Power	Power Input (Nominal)	Cooling	kW	32	32	45	62
		Heating		32	32	45	62
	Current Input (Nominal)	Cooling	A	0.22	0.22	0.31	0.43
		Heating		0.22	0.22	0.31	0.43
	Current	MCA	A	0.3	0.3	0.4	0.6
		MFA/MOP		15	15	15	15
Heat exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al	Al
		Tube	-	Cu	Cu	Cu	Cu
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion	Anti-corrosion
Fan	Type		-	Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan
	Quantity		ea	1	1	1	1
	Air Flow Rate	H/M/L (UL)	m^3/min	14.5 / 13.5 / 12.5	15.0 / 14.0 / 13.0	17.0 / 15.5 / 14.5	19.5 / 18.0 / 16.5
			l/s	242 / 225 / 208	250 / 233 / 217	283 / 258 / 242	325 / 300 / 275
Fan Motor	Model		-	BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor
	Output x n		W	65 x 1	65 x 1	65 x 1	65 x 1
Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection	Flare connection	Flare connection
			Φ, mm	6.35	6.35	9.52	9.52
			Φ, inch	1/4"	1/4"	3/8"	3/8"
	Gas Pipe		Type	Flare connection	Flare connection	Flare connection	Flare connection
			Φ, mm	12.7	12.7	15.88	15.88
			Φ, inch	1/2"	1/2"	5/8"	5/8"
	Drain Pipe		Φ, mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
Wiring connections	For power supply	Minimum	mm^2	1.5	1.5	1.5	1.5
	For connection with indoor	Minimum	mm^2	0.75	0.75	0.75	0.75
		Remark	-	F1,F2	F1,F2	F1,F2	F1,F2
Refrigerant	Type		-	R410A	R410A	R410A	R410A
	Control Method		-	EEV Included	EEV Included	EEV Included	EEV Included
Sound	Sound Pressure	High / Mid / Low	dB(A)	33 / 32 / 30	33 / 32 / 30	35 / 34 / 33	39 / 36 / 33
	Sound Power	Cooling (Nominal)		49	50	54	57
Dimension	Net Weight		kg	15.5	15.5	15.5	15.5
	Shipping Weight		kg	19.5	19.5	19.5	19.5
	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

1. Specification

Type			4Way Cassette	4Way Cassette	4Way Cassette	4Way Cassette
Model Name			AM045FN4DEH※※※	AM056FN4DEH※※※	AM071FN4DEH※※※	AM090FN4DEH※※※
Air filter	Type	-	Washable	Washable	Washable	Washable
Panel Size	Panel model	-	PC4NUSKAN	PC4NUSKAN	PC4NUSKAN	PC4NUSKAN
	Panel Net Weight	kg	5.80	5.80	5.80	5.80
	Shipping Weight	kg	8.4	8.4	8.4	8.4
	Net Dimensions (W×H×D)	mm	950 x 45 x 950	950 x 45 x 950	950 x 45 x 950	950 x 45 x 950
	Shipping Dimensions (W×H×D)	mm	1,005 x 100 x 1,005	1,005 x 100 x 1,005	1,005 x 100 x 1,005	1,005 x 100 x 1,005
Drain pump		-	Included	Included	Included	Included
	Max. lifting Height	mm	750	750	750	750

NOTE

- Mode : HP(Heat Pump), HR(Heat Recovery)
- Nominal Cooling : Indoor temperature 27°C DB / 19°C WB, Outdoor temperature 35°C DB/24°C WB, Refrigerant pipe length 7.5m, Level difference 0m.
- Nominal Heating : Indoor temperature 20°C DB / 15°C WB, Outdoor temperature 7°C DB / 6°C WB, 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.
- Select wire size based on the value of MCA
- Drain pump included (check valve included)

1. Specification

Type				4Way Cassette	4Way Cassette	4Way Cassette
Model Name				AM112FN4DEH※※※	AM128FN4DEH※※※	AM140FN4DEH※※※
Power Supply			Φ, #, 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	11.2	12.8	14.0
			Btu/h	38,200	43,700	47,800
		Heating	kW	12.5	13.8	16.0
			Btu/h	42,700	47,100	54,600
Power	Power Input (Nominal)	Cooling	kW	78	73	89
		Heating		78	73	89
	Current Input (Nominal)	Cooling	A	0.55	0.51	0.62
		Heating		0.55	0.51	0.62
	Current	MCA	A	0.9	0.8	0.9
		MFA/MOP		15	15	15
Heat exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion
Fan	Type		-	Turbo Fan	Turbo Fan	Turbo Fan
	Quantity		ea	1	1	1
	Air Flow Rate	H/M/L (UL)	m^3/min	26.0 / 24.0 / 22.0	28.0 / 26.0 / 23.0	30.0 / 28.0 / 26.0
			l/s	433 / 400 / 367	467 / 433 / 383	500 / 467 / 433
Fan Motor	Model		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output x n		W	65 x 1	97 x 1	97 x 1
Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection	Flare connection
			Φ, mm	9.52	9.52	9.52
			Φ, inch	3/8"	3/8"	3/8"
	Gas Pipe		Type	Flare connection	Flare connection	Flare connection
			Φ, mm	15.88	15.88	15.88
			Φ, inch	5/8"	5/8"	5/8"
	Drain Pipe		Φ, mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
Wiring connections	For power supply	Minimum	mm^2	1.5	1.5	1.5
	For connection with indoor	Minimum	mm^2	0.75	0.75	0.75
		Remark	-	F1,F2	F1,F2	F1,F2
Refrigerant	Type		-	R410A	R410A	R410A
	Control Method		-	EEV Included	EEV Included	EEV Included
Sound	Sound Pressure	High / Mid / Low	dB(A)	40 / 38 / 35	42 / 40 / 35	44 / 41 / 35
	Sound Power	Cooling (Nominal)		57	58	60
Dimension	Net Weight		kg	17	19	19
	Shipping Weight		kg	20.0	22.5	22.5
	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

1. Specification

Type			4Way Cassette	4Way Cassette	4Way Cassette
Model Name			AM112FN4DEH※※※	AM128FN4DEH※※※	AM140FN4DEH※※※
Air filter	Type	-	Washable	Washable	Washable
Panel Size	Panel model	-	PC4NUSKAN	PC4NUSKAN	PC4NUSKAN
	Panel Net Weight	kg	5.80	5.80	5.80
	Shipping Weight	kg	8.4	8.4	8.4
	Net Dimensions (W×H×D)	mm	950 x 45 x 950	950 x 45 x 950	950 x 45 x 950
	Shipping Dimensions (W×H×D)	mm	1,005 x 100 x 1,005	1,005 x 100 x 1,005	1,005 x 100 x 1,005
Drain pump		-	Included	Included	Included
	Max. lifting Height	mm	750	750	750

NOTE

- Mode : HP(Heat Pump), HR(Heat Recovery)
- Nominal Cooling : Indoor temperature 27°C DB / 19°C WB, Outdoor temperature 35°C DB/24°C WB, Refrigerant pipe length 7.5m, Level difference 0m.
- Nominal Heating : Indoor temperature 20°C DB / 15°C WB, Outdoor temperature 7°C DB / 6°C WB, 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.
- Select wire size based on the value of MCA
- Drain pump included (check valve included)

2. Summary Table

Performance Characteristics

Model Code	Net Weight (kg)	Fan Speed	Nominal Capacity			Airflow (CMM)	Sound Pressure (dBA)	Sound Power (dBA)
			Cooling (kW)	Sensible (Kw)	Heating (kW)			
AM045FN4DEH※※※	15.5	High	4.5	3.3	5.0	14.5	33	49
		Mid	3.3	2.6	4.8	13.5	32	-
		Low	2.7	2.3	4.6	12.5	30	-
AM056FN4DEH※※※	15.5	High	5.6	4.2	6.3	15.0	33	50
		Mid	4	3.2	6.1	14.0	32	-
		Low	3.3	2.8	5.9	13.0	30	-
AM071FN4DEH※※※	15.5	High	7.1	5.4	8.0	17.0	35	54
		Mid	5	4	7.6	15.5	34	-
		Low	4.1	3.4	7.4	14.5	33	-
AM090FN4DEH※※※	15.5	High	9.0	7.1	10.0	19.5	39	57
		Mid	6.3	5.2	9.6	18.0	36	-
		Low	5.1	4.4	9.2	16.5	33	-
AM112FN4DEH※※※	17	High	11.2	8.6	12.5	26.0	40	57
		Mid	7.8	6.2	12.0	24.0	38	-
		Low	6.3	5.3	11.5	22.0	35	-
AM128FN4DEH※※※	19	High	12.8	9.9	13.8	28.0	42	58
		Mid	8.3	7.2	13.3	26.0	40	-
		Low	7.2	6	12.5	23.0	35	-
AM140FN4DEH※※※	19	High	14.0	10.8	16.0	30.0	44	60
		Mid	9.7	7.8	15.5	28.0	41	-
		Low	7.8	6.6	14.9	26.0	35	-

Electrical Characteristics

Model	Power Supply (Φ, #, V, Hz)	Power Input (W)	Current Input (A)	MCA (A)	MFA (A)	FLA (A)
AM045FN4DEH※※※	1, 2, 220-240, 50	32.0	0.22	0.3	15	0.23
AM056FN4DEH※※※	1, 2, 220-240, 50	32.0	0.22	0.3	15	0.23
AM071FN4DEH※※※	1, 2, 220-240, 50	45.0	0.31	0.4	15	0.33
AM090FN4DEH※※※	1, 2, 220-240, 50	62.0	0.43	0.6	15	0.45
AM112FN4DEH※※※	1, 2, 220-240, 50	78.0	0.55	0.9	15	0.74
AM128FN4DEH※※※	1, 2, 220-240, 50	73.0	0.51	0.8	15	0.64
AM140FN4DEH※※※	1, 2, 220-240, 50	89.0	0.62	0.9	15	0.74

NOTE

- MCA : Minimum circuit amperes
- FLA : Full load amperes

3. Capacity Table

4Way Cassette

AM※※※FN4DEH/EU

Cooling

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

Combination, % (Capacityy index)	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
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

3. Capacity Table

Combination, % (Capacityy index)	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	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
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

NOTE

- 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: 0 m
- 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: 0 m

3. Capacity Table

Heating

TC : Total Capacity (kW)

Combination, % (Capacityy index)	Outdoor temperature (°C, DB)		Indoor temperature (°C, WB)				
			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
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

3. Capacity Table

Combination, % (Capacityy index)	Outdoor temperature (°C, DB)		Indoor temperature (°C, WB)				
			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	7.4	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

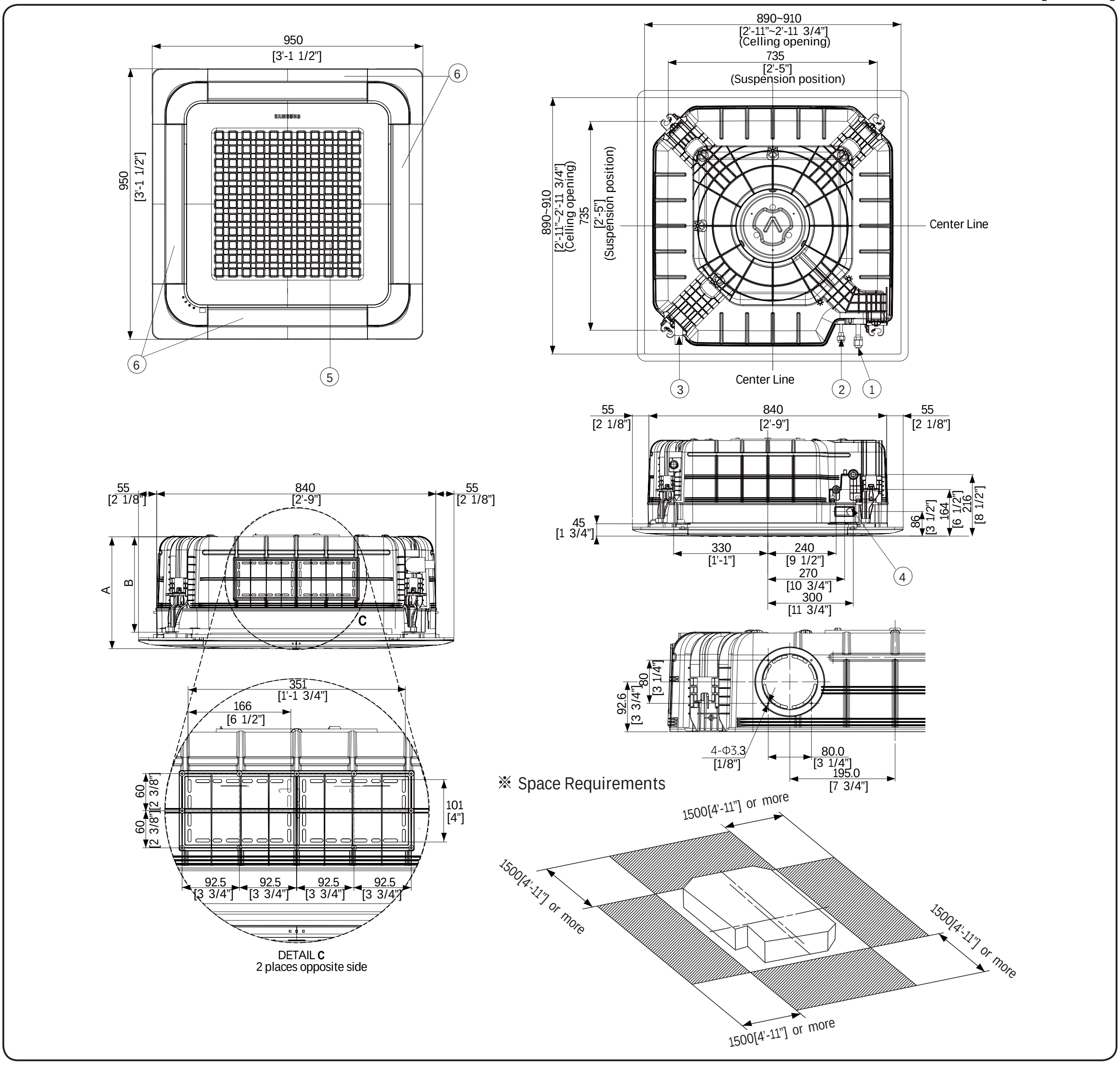
NOTE

- 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: 0 m
- 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: 0 m

4. Dimensional Drawing

4 Way Casstte

Units : mm [inches]



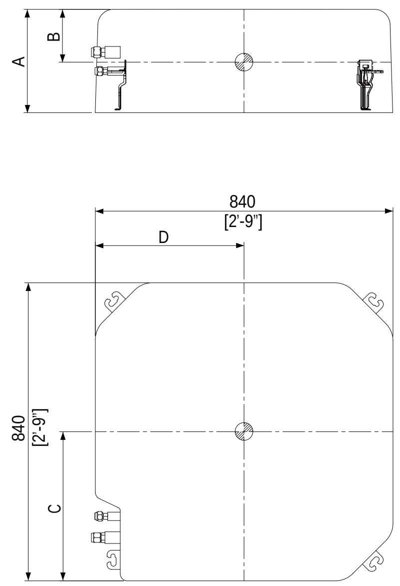
	Description		
	~ 9.0 kW	11.2 kW	12.8 ~ 14kW
A	253	295	337
B	204	246	288

NO	Name	Description	
		~ 5.6 kW	7.1 ~ 14kW
1	Liquid pipe connection	Φ6.35 [1/4"] Flare	Φ9.52 [3/8"] Flare
2	Gas pipe connection	Φ12.7 [1/2"] Flare	Φ15.88 [5/8"] 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	-	

5. Center of Gravity

4 Way Casstte

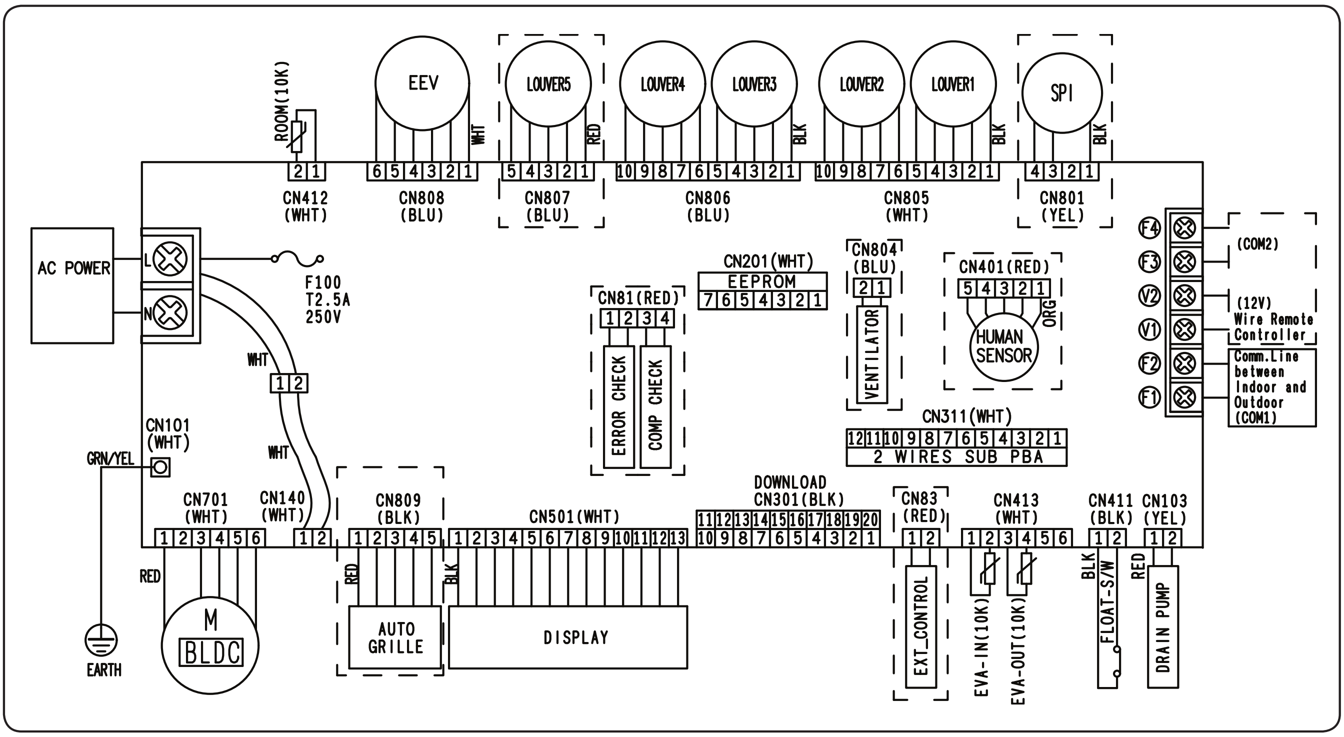
Units : mm [inches]



Model	A	B	C	D
~ 9.0 kW	204 [8"]	70 [2 3/4"]	410 [1'-4 1/4"]	360 [1'-2 1/4"]
11.2 kW	246 [9 3/4"]	100 [4"]	410 [1'-4 1/4"]	410 [1'-4 1/4"]
12.8~ 14 kW	288 [11 1/4"]	130 [5"]	420 [1'-4 1/2"]	420 [1'-4 1/2"]

6. Electrical Wiring Diagram

4Way Cassette



EVA OUT (10K)	Thermistor EVA OUT (10K)	EVA IN (10K)	Thermistor EVA IN (10K)	BLDC	Brush Less Dc Motor
ROOM (10K)	Thermistor ROOM (10K)				

NOTE

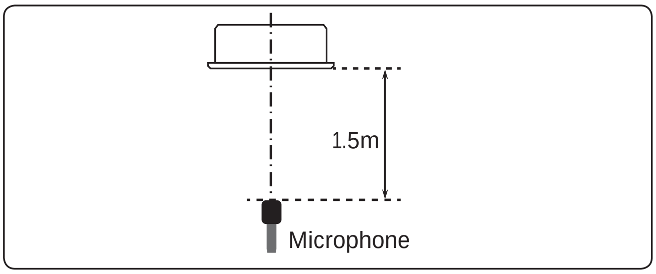
- This wiring diagram applies only to the outdoor unit.
- Symbols show as flow :
  blk: black, red: red, blu: blue, wht: white, yel: yellow, brn: brown, sky: skyblue, grn: green
- For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remotecontroller F3-F4.
- ⊜ Protective earth(SCREW)

7. Sound data

4Way Cassette

Sound pressure level

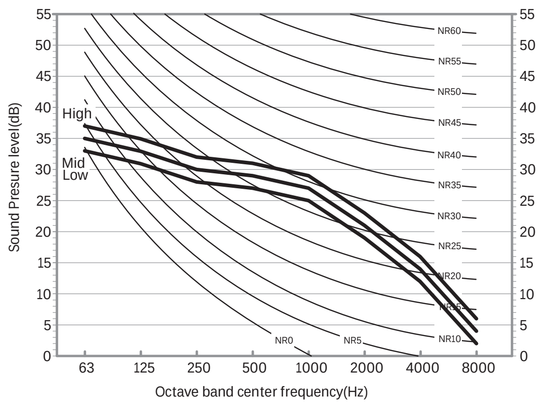
Unit: dB(A)



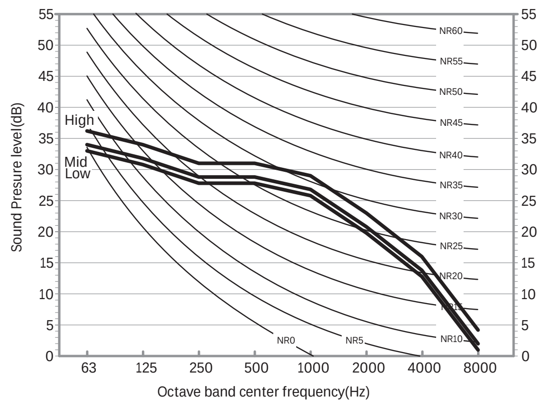
Model	High	Mid	Low
AM045FN4DEH✱✱✱	33	32	30
AM056FN4DEH✱✱✱	33	32	30
AM071FN4DEH✱✱✱	35	34	33
AM090FN4DEH✱✱✱	39	36	33

- NR Curve

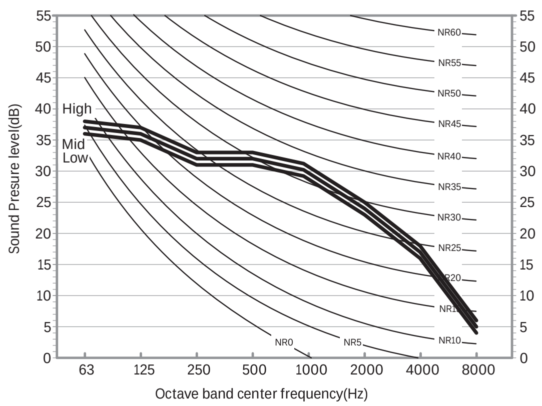
1) AM045FN4DEH✱✱✱



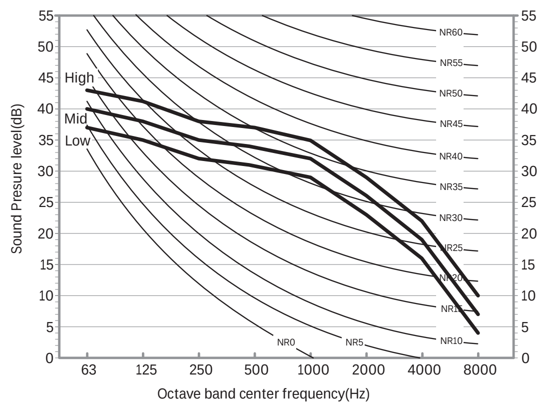
2) AM056FN4DEH✱✱✱



3) AM071FN4DEH✱✱✱



4) AM090FN4DEH✱✱✱

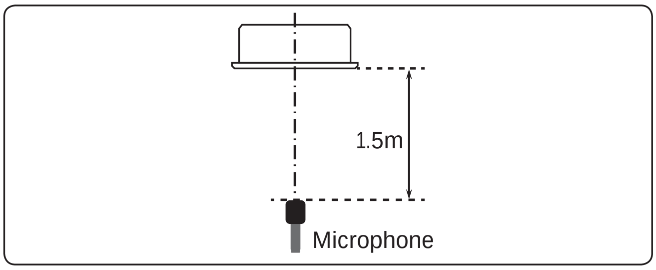


NOTE

- Specifications may be subject to change without prior notice.
- Sound pressure is obtained in an anechoic room.
- Sound pressure level is a relative value, depending on the distance and acoustic environment.
- Sound pressure level may differ depending on operation condition.
- dBA = A weighted sound pressure level
- Reference acoustic pressure 0 dB = 20µPa

7. Sound data

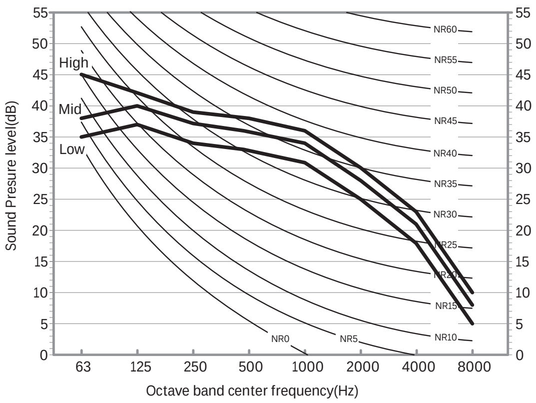
Unit: dB(A)



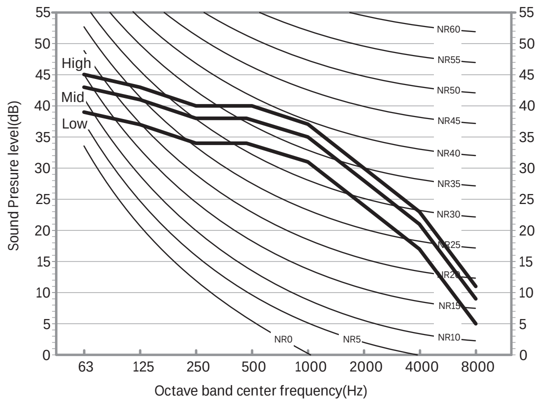
Model	High	Mid	Low
AM112FN4DEH✱✱✱	40	38	35
AM128FN4DEH✱✱✱	42	40	35
AM140FN4DEH✱✱✱	44	41	35

- NR Curve

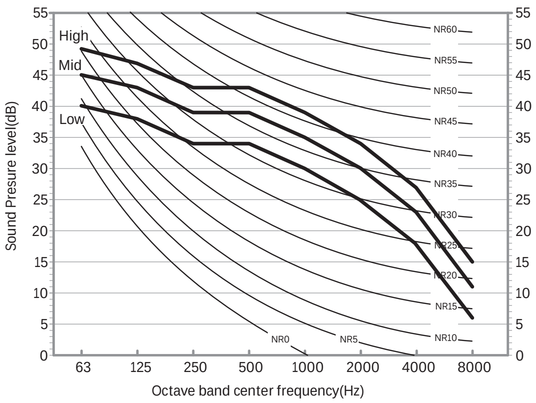
5) AM112FN4DEH✱✱✱



6) AM128FN4DEH✱✱✱



7) AM140FN4DEH✱✱✱



NOTE

- Specifications may be subject to change without prior notice.
- Sound pressure is obtained in an anechoic room.
- Sound pressure level is a relative value, depending on the distance and acoustic environment.
- Sound pressure level may differ depending on operation condition.
- dBA = A weighted sound pressure level
- Reference acoustic pressure 0 dB = 20μPa

7. Sound data

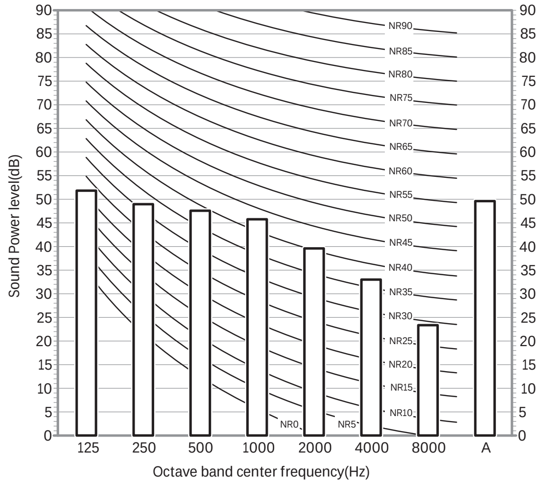
4Way Cassette

Sound Power level

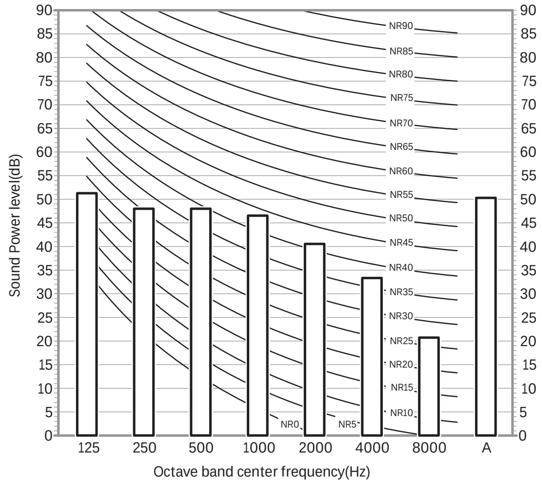
Unit: dB(A)

Model	Power
AM045FN4DEH✲✲✲	49
AM056FN4DEH✲✲✲	50
AM071FN4DEH✲✲✲	54
AM090FN4DEH✲✲✲	57

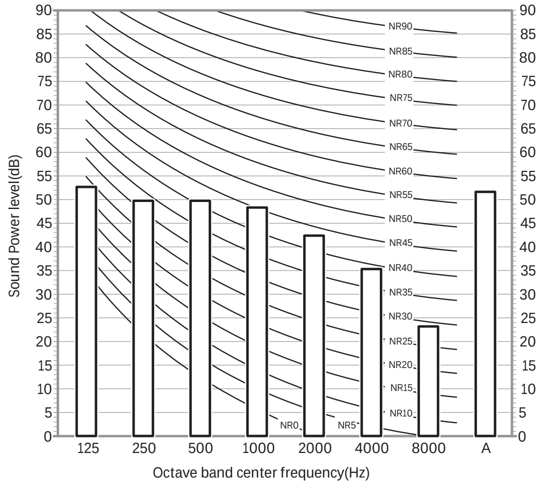
1) AM045FN4DEH✲✲✲



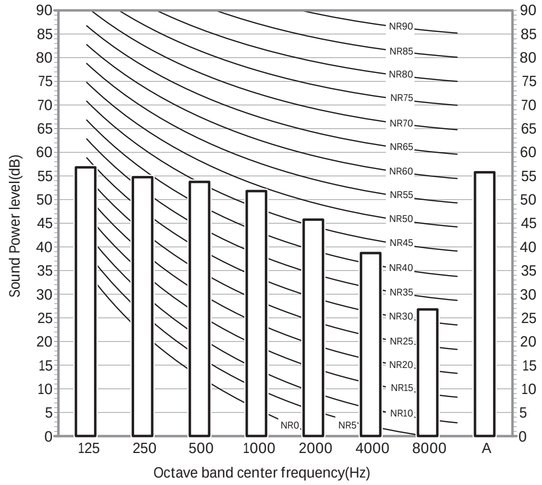
2) AM056FN4DEH✲✲✲



3) AM071FN4DEH✲✲✲



4) AM090FN4DEH✲✲✲



NOTE

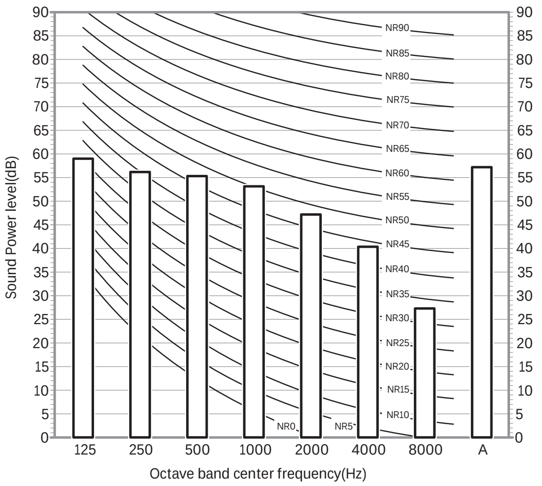
- Specifications may be subject to change without prior notice.
- Sound power level is an absolute value that a sound source generates
- dBA = A weighted sound power level
- Reference power : 1pW
- Measured according to ISO 3741

7. Sound data

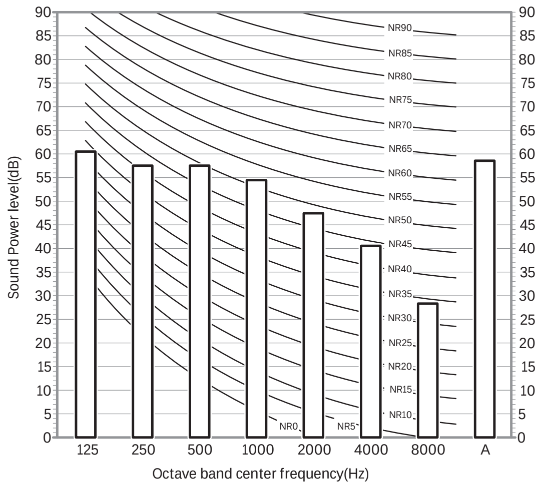
Unit: dB(A)

Model	Power
AM112FN4DEH***	57
AM128FN4DEH***	58
AM140FN4DEH***	60

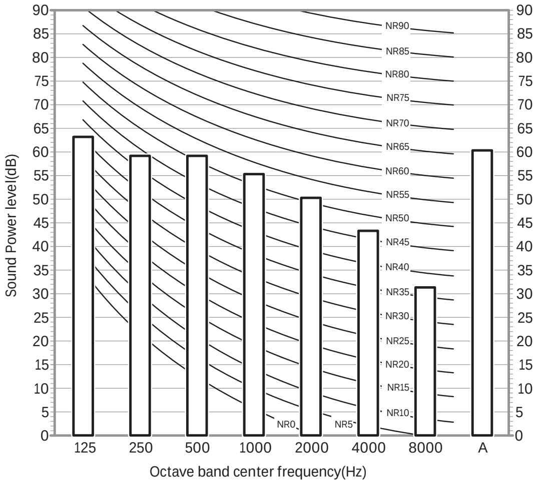
5) AM112FN4DEH***



6) AM128FN4DEH***



7) AM140FN4DEH***



NOTE

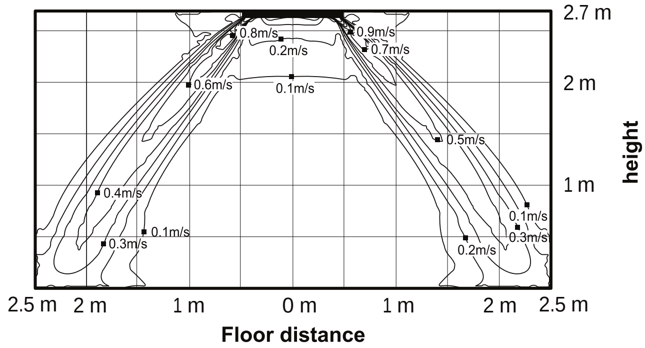
- Specifications may be subject to change without prior notice.
- Sound power level is an absolute value that a sound source generates
- dBA = A weighted sound power level
- Reference power : 1pW
- Measured according to ISO 3741

8. Temperature and Air Flow Distribution

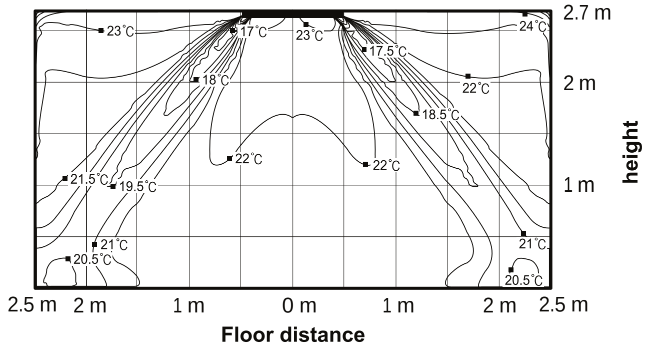
4Way Cassette

AM045FN4DEH✱✱✱

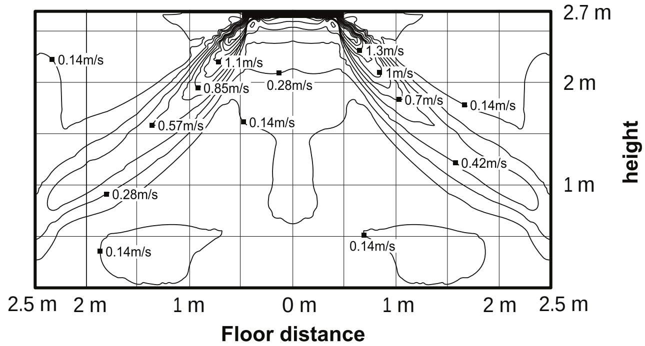
(1) Cooling air velocity distribution Discharge angle: 45°



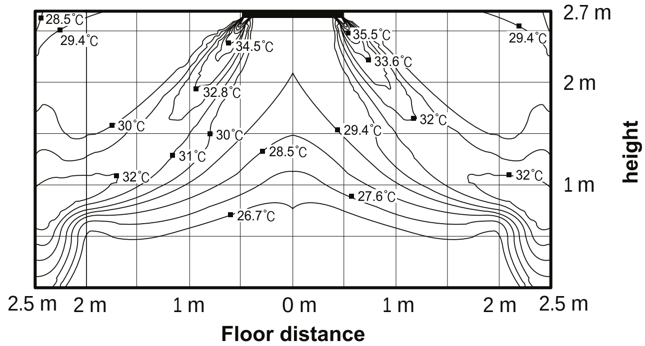
(2) Cooling temperature distribution Discharge angle: 45°



(3) Heating air velocity distribution Discharge angle: 52°



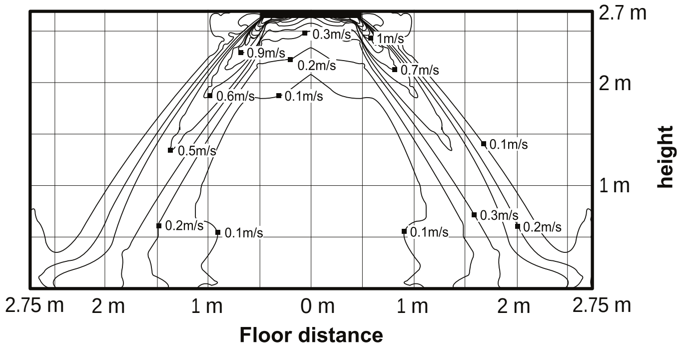
(4) Heating temperature distribution Discharge angle: 52°



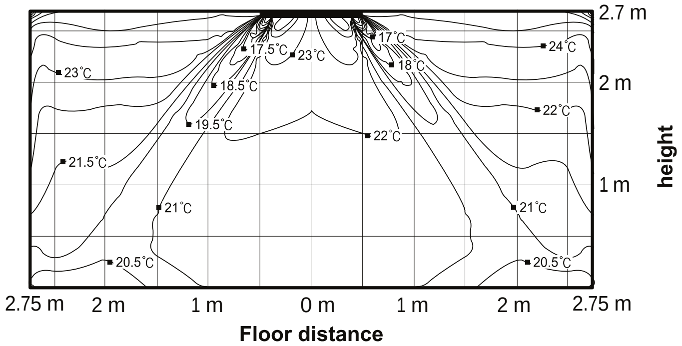
8. Temperature and Air Flow Distribution

AM056FN4DEH✻✻✻

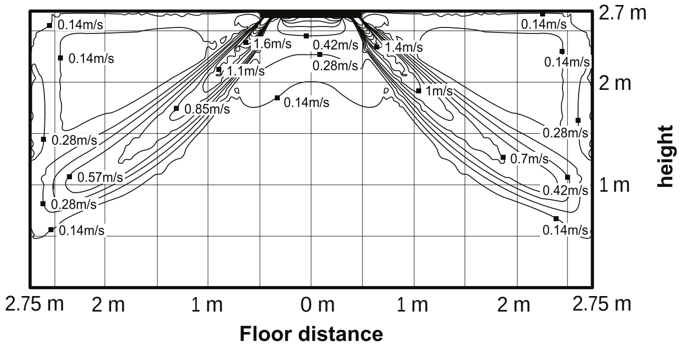
(1) Cooling air velocity distribution Discharge angle: 45°



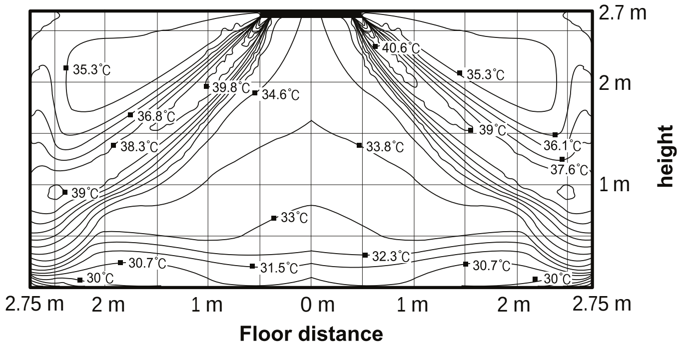
(2) Cooling temperature distribution Discharge angle: 45°



(3) Heating air velocity distribution Discharge angle: 52°



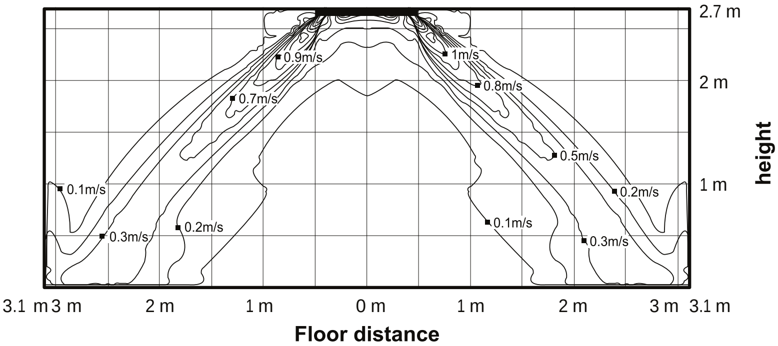
(4) Heating temperature distribution Discharge angle: 52°



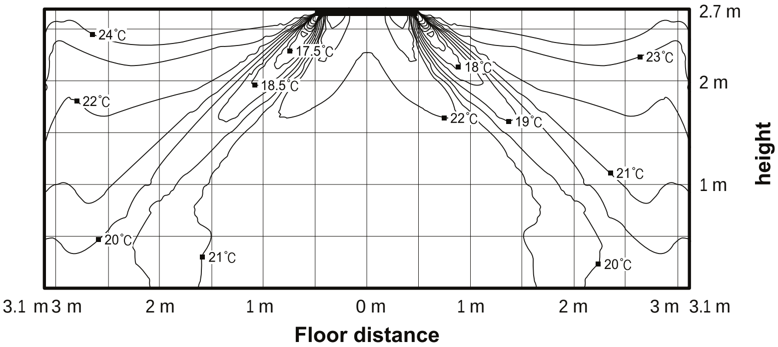
8. Temperature and Air Flow Distribution

AM071FN4DEH✱✱✱

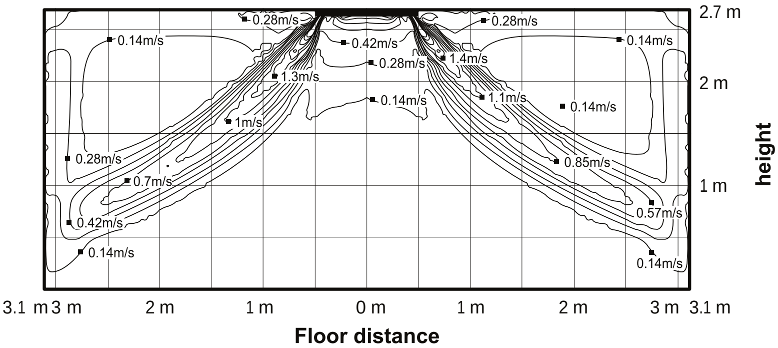
(1) Cooling air velocity distribution   Discharge angle: 45°



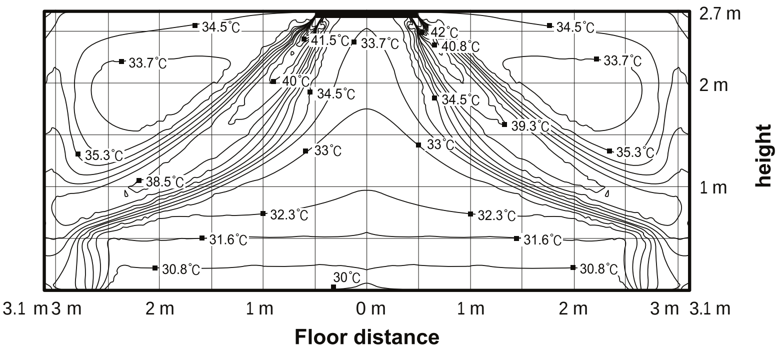
(2) Cooling temperature distribution   Discharge angle: 45°



(3) Heating air velocity distribution   Discharge angle: 52°



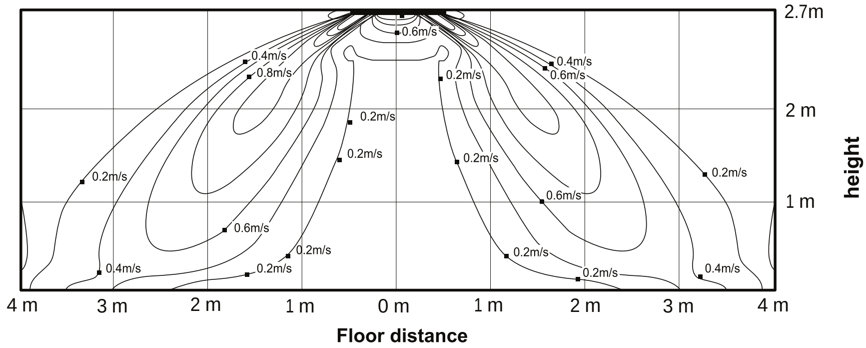
(4) Heating temperature distribution   Discharge angle: 52°



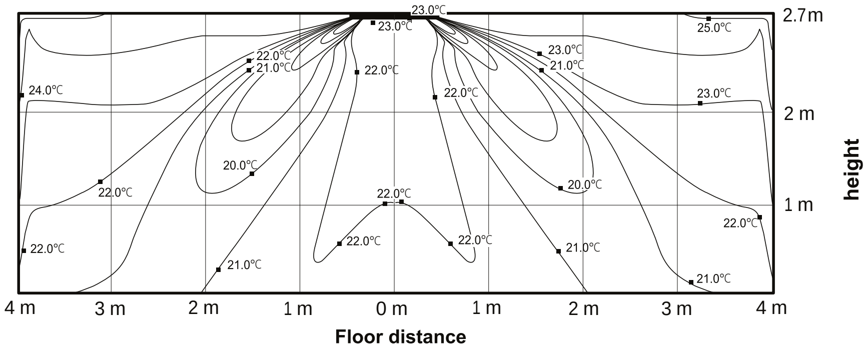
8. Temperature and Air Flow Distribution

AM090FN4DEH✕✕✕

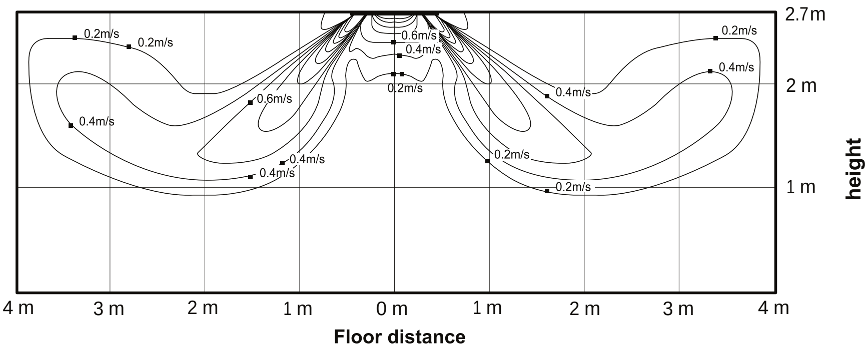
(1) Cooling air velocity distribution Discharge angle: 45°



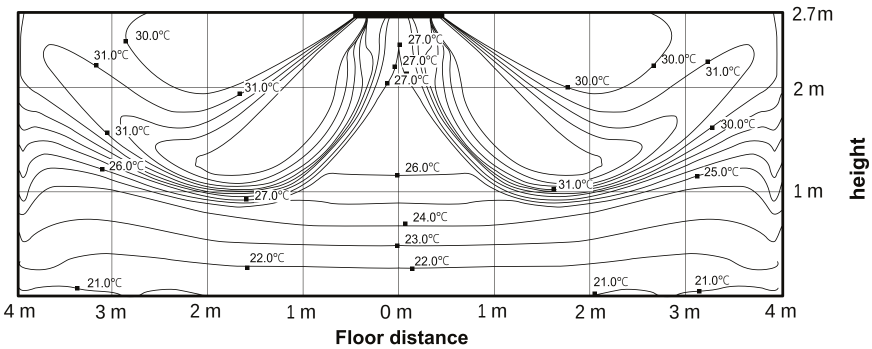
(2) Cooling temperature distribution Discharge angle: 45°



(3) Heating air velocity distribution Discharge angle: 52°



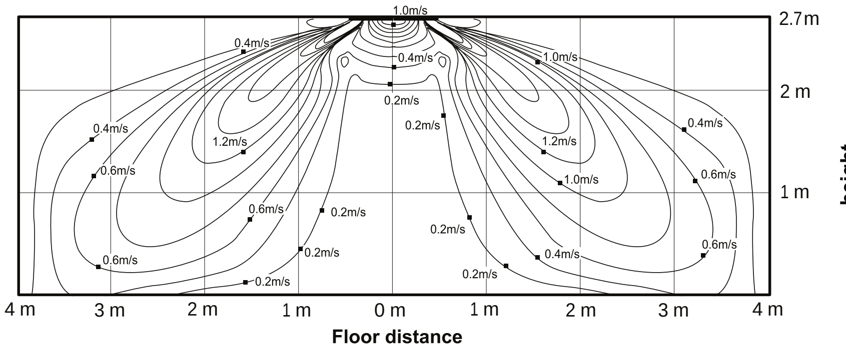
(4) Heating temperature distribution Discharge angle: 52°



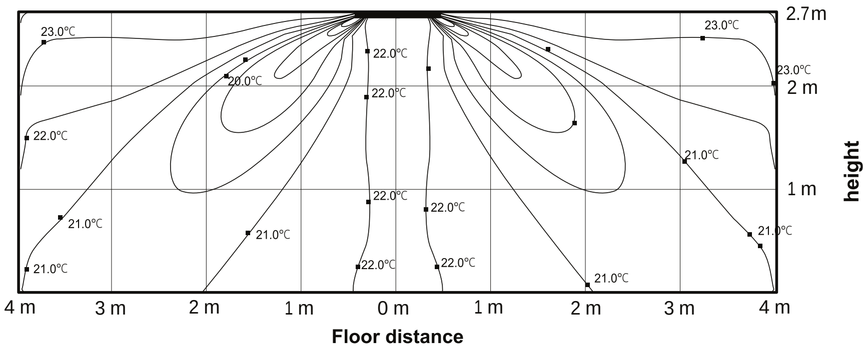
8. Temperature and Air Flow Distribution

AM112FN4DEH✱✱✱

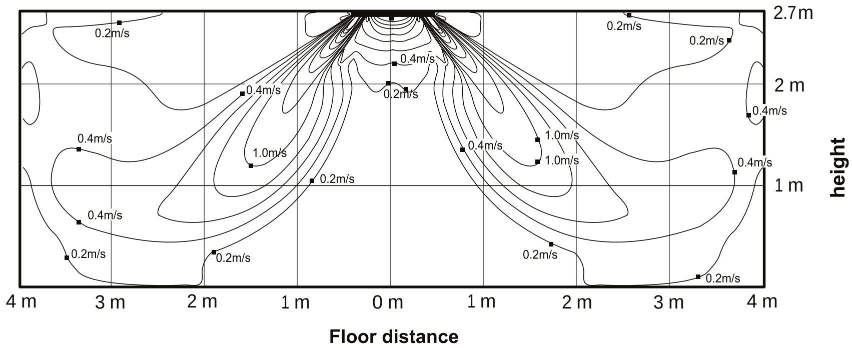
(1) Cooling air velocity distribution   Discharge angle: 45°



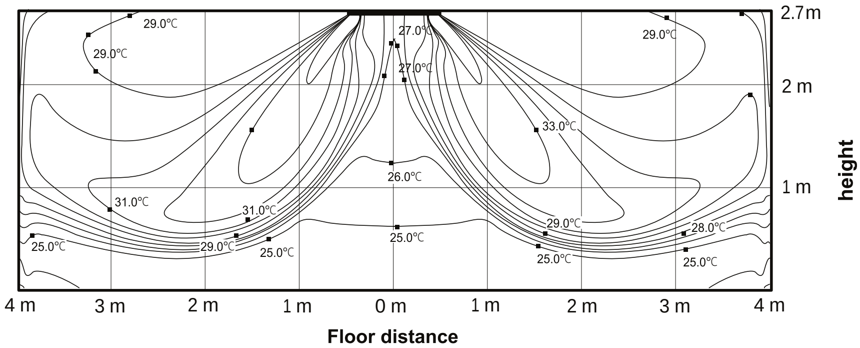
(2) Cooling temperature distribution   Discharge angle: 45°



(3) Heating air velocity distribution   Discharge angle: 52°



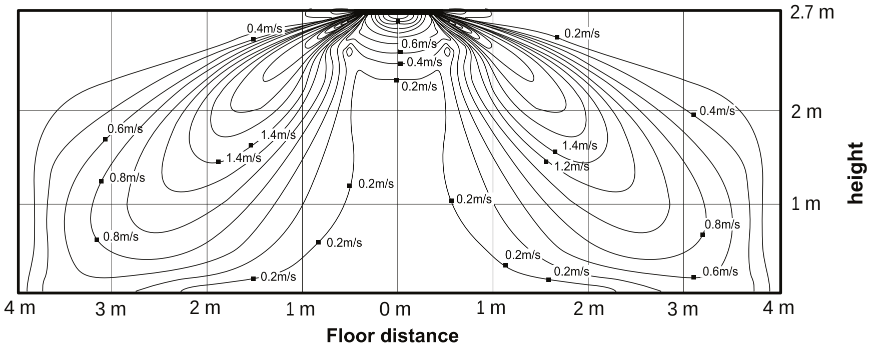
(4) Heating temperature distribution   Discharge angle: 52°



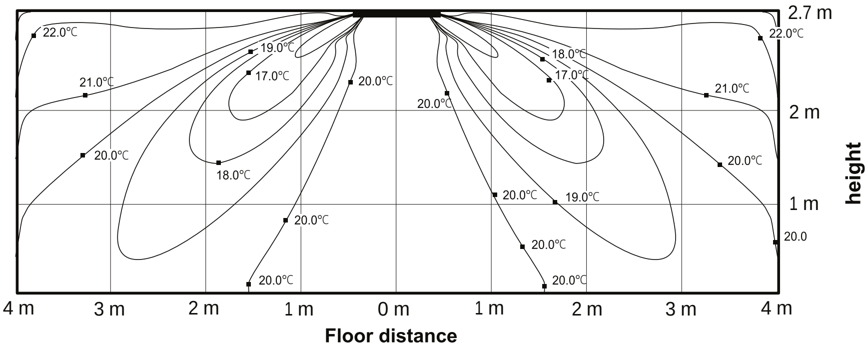
8. Temperature and Air Flow Distribution

AM140FN4DEH✲✲✲

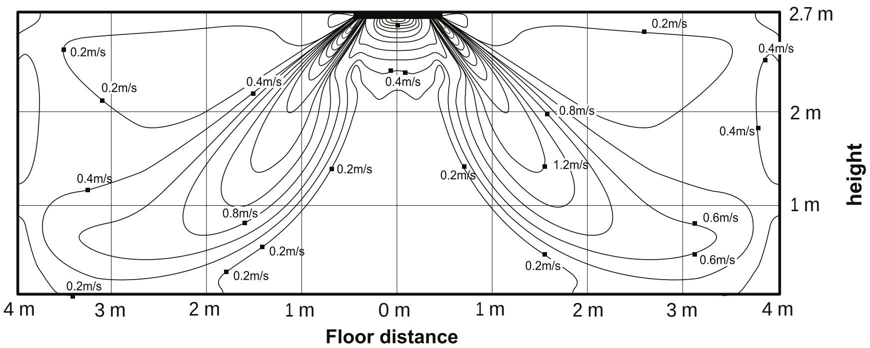
(1) Cooling air velocity distribution Discharge angle: 45°



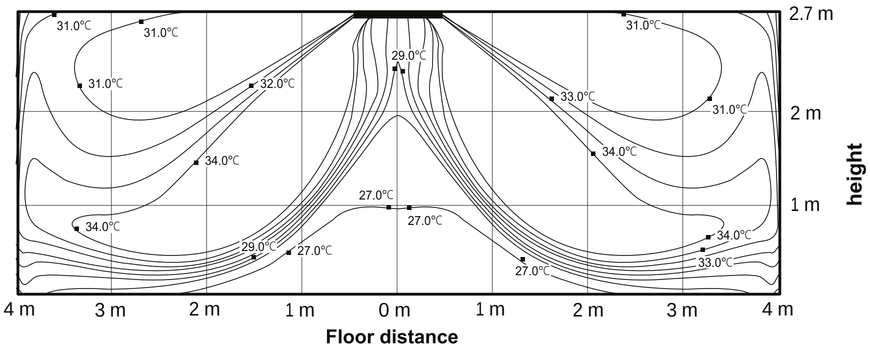
(2) Cooling temperature distribution Discharge angle: 45°



(3) Heating air velocity distribution Discharge angle: 52°

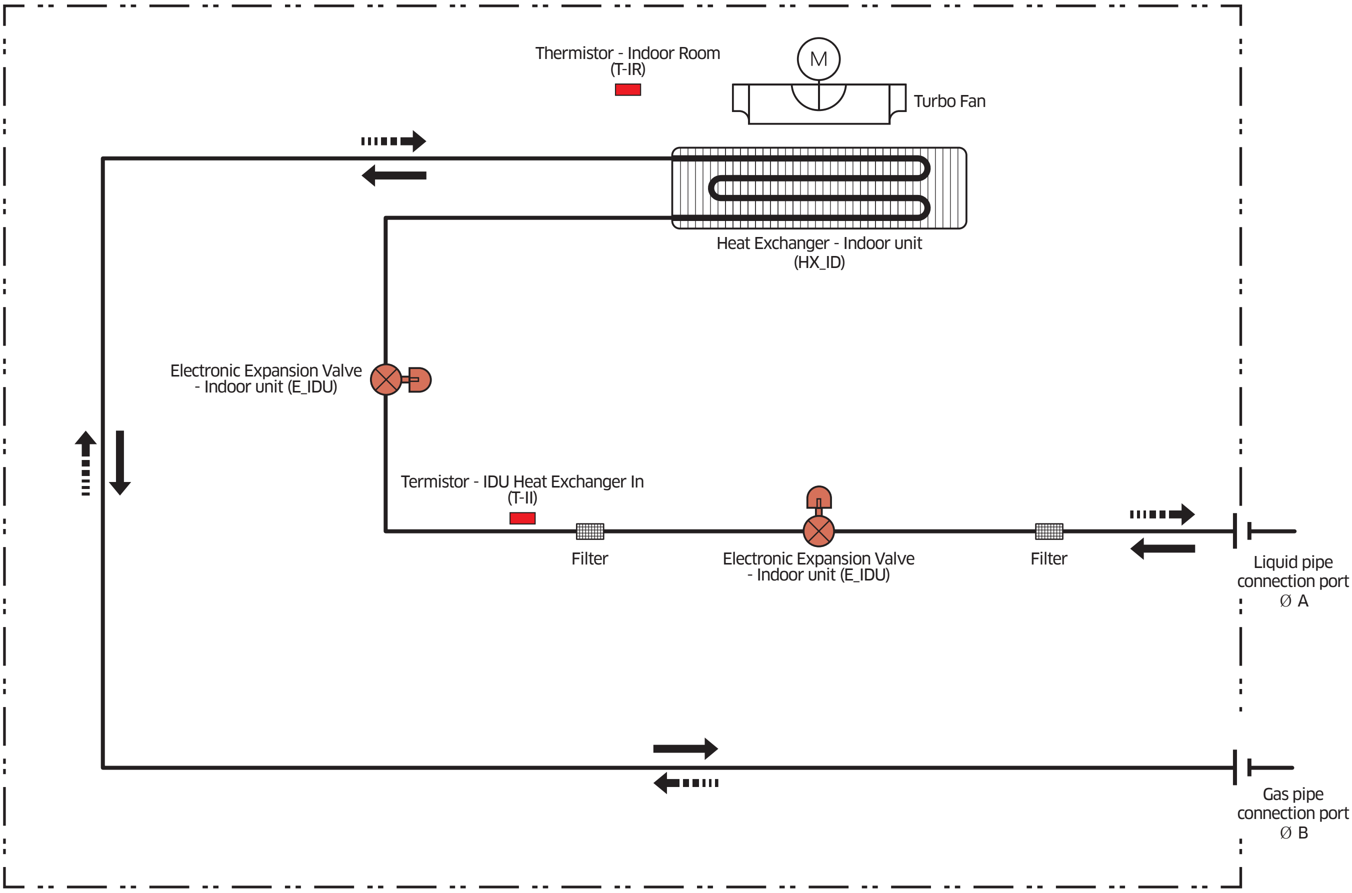


(4) Heating temperature distribution Discharge angle: 52°



9. Piping Diagram

4Way Cassette



Refrigerant flow	
Cooling	Heating
→	⇢

Model	A	B
AM045FN4DEH✕✕✕	6.35	12.7
AM056FN4DEH✕✕✕		
AM071FN4DEH✕✕✕	9.52	15.88
AM090FN4DEH✕✕✕		
AM112FN4DEH✕✕✕		
AM128FN4DEH✕✕✕		
AM140FN4DEH✕✕✕		

360 Cassette

360 Cassette

Type				360 Cassette	360 Cassette	360 Cassette	360 Cassette
Model				AM045KN4DEH/EU	AM056KN4DEH/EU	AM071KN4DEH/EU	AM090KN4DEH/EU
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	26.00	30.00	34.00	55.00
		Heating		26.00	30.00	34.00	55.00
	Current Input (Nominal)	Cooling	A	0.18	0.21	0.25	0.42
		Heating		0.18	0.21	0.25	0.42
Fan	Motor	Type	-	Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan
		Output x n	w	65 x 1	65 x 1	65 x 1	65 x 1
	Air Flow Rate	H/M/L (UL)	CMM	14.50 / 13.50 / 12.50	16.00 / 14.50 / 13.50	18.00 / 16.00 / 14.00	22.00 / 18.50 / 16.00
			l/s	241.67 / 225.00 / 208.33	266.67 / 241.67 / 225.00	300.00 / 266.67 / 233.33	366.67 / 308.33 / 266.67
	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 / 31 / 29	34 / 32 / 29	36 / 33 / 30	40 / 36 / 32
	Power	Cooling		50	51	53	57
Dimension	Net Weight		kg	21.00	21.00	21.00	21.00
	Shipping Weight		kg	25.00	25.00	25.00	25.00
	Net Dimensions (WxHxD)		mm	947 x 281 x 947	947 x 281 x 947	947 x 281 x 947	947 x 281 x 947
	Shipping Dimensions (WxHxD)		mm	990 x 330 x 990	990 x 330 x 990	990 x 330 x 990	990 x 330 x 990
Panel Size	Panel model		-	PC4NUDMAN	PC4NUDMAN	PC4NUDMAN	PC4NUDMAN
	Panel Net Weight		kg	3.60	3.60	3.60	3.60
	Shipping Weight		kg	6.00	6.00	6.00	6.00
	Net Dimensions (WxHxD)		mm	1,000 x 66 x 1,000	1,000 x 66 x 1,000	1,000 x 66 x 1,000	1,000 x 66 x 1,000
	Shipping Dimensions (WxHxD)		mm	1,093 x 85 x 1,083	1,093 x 85 x 1,083	1,093 x 85 x 1,083	1,093 x 85 x 1,083
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.
1) Nominal cooling capacities are based on;
- Indoor temperature : 27°C DB, 19°C WB
- Outdoor temperature : 35°C DB, 24°C WB, Equivalent refrigerant piping : 5m, Level differences : 0m
2) Nominal heating capacities are based on;
- Indoor temperature : 20°C DB, 15°C WB
- Outdoor temperature : 7°C DB, 6°C WB, Equivalent refrigerant piping : 5m, Level differences : 0m
3) Sound pressure was acquired in 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.
5) Panel type is option. (Ceiling Type/Open Type)
About each detail spec, please refer to Dimensional Drawing pages.
* Heat Exchanger type : Fin & Tube (Fin : Al, Tube : Cu)

1 Specifications

360 Cassette

Type				360 Cassette	360 Cassette	360 Cassette
Model				AM112KN4DEH/EU	AM128KN4DEH/EU	AM140KN4DEH/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	53.00	77.00	91.00
		Heating		53.00	77.00	91.00
	Current Input (Nominal)	Cooling	A	0.41	0.62	0.75
		Heating		0.41	0.62	0.75
Fan	Motor	Type	-	Turbo Fan	Turbo Fan	Turbo Fan
		Output x n	w	97 x 1	97 x 1	97 x 1
	Air Flow Rate	H/M/L (UL)	CMM	25.50 / 21.00 / 17.50	29.50 / 24.00 / 19.00	31.50 / 26.50 / 21.00
			l/s	425.00 / 350.00 / 291.67	491.67 / 400.00 / 316.67	525.00 / 441.67 / 350.00
	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 / 36 / 32	42 / 38 / 33	44 / 40 / 35
	Power	Cooling		58	60	61
Dimension	Net Weight		kg	24.00	24.00	24.00
	Shipping Weight		kg	29.00	29.00	29.00
	Net Dimensions (WxHxD)		mm	947 x 365 x 947	947 x 365 x 947	947 x 365 x 947
	Shipping Dimensions (WxHxD)		mm	990 x 414 x 990	990 x 414 x 990	990 x 414 x 990
Panel Size	Panel model		-	PC4NUDMAN	PC4NUDMAN	PC4NUDMAN
	Panel Net Weight		kg	3.60	3.60	3.60
	Shipping Weight		kg	6.00	6.00	6.00
	Net Dimensions (WxHxD)		mm	1,000 x 66 x 1,000	1,000 x 66 x 1,000	1,000 x 66 x 1,000
	Shipping Dimensions (WxHxD)		mm	1,093 x 85 x 1,083	1,093 x 85 x 1,083	1,093 x 85 x 1,083
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.
1) Nominal cooling capacities are based on;
- Indoor temperature : 27°C DB, 19°C WB
- Outdoor temperature : 35°C DB, 24°C WB, Equivalent refrigerant piping : 5m, Level differences : 0m
2) Nominal heating capacities are based on;
- Indoor temperature : 20°C DB, 15°C WB
- Outdoor temperature : 7°C DB, 6°C WB, Equivalent refrigerant piping : 5m, Level differences : 0m
3) Sound pressure was acquired in 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.
5) Panel type is option. (Ceiling Type/Open Type)
About each detail spec, please refer to Dimensional Drawing pages.
* Heat Exchanger type : Fin & Tube (Fin : Al, Tube : Cu)

360 Cassette

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity

Model	Outdoor Air Temp. (DB)	Indoor temperature													
		20 (ºC, DB)		23 (ºC, DB)		26 (ºC, DB)		27 (ºC, DB)		28 (ºC, DB)		30 (ºC, DB)		32 (ºC, DB)	
		14 (ºC, WB)		16 (ºC, WB)		18 (ºC, WB)		19 (ºC, WB)		20 (ºC, WB)		22 (ºC, WB)		24 (ºC, WB)	
		TC(kW)	SHC(kW)	TC(kW)	SHC(kW)	TC(kW)	SHC(kW)	TC(kW)	SHC(kW)	TC(kW)	SHC(kW)	TC(kW)	SHC(kW)	TC(kW)	SHC(kW)
4.50	10.0	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
	12.0	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
	14.0	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
	16.0	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
	18.0	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
	20.0	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
	21.0	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
	23.0	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
	25.0	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
	27.0	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
	29.0	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
	31.0	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
	33.0	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
	35.0	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
	37.0	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
	39.0	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
5.60	10.0	3.90	3.20	4.60	3.50	5.30	3.90	5.60	3.90	5.80	3.90	6.30	3.90	6.70	3.70
	12.0	3.90	3.20	4.60	3.50	5.30	3.90	5.60	3.90	5.80	3.90	6.30	3.90	6.70	3.70
	14.0	3.90	3.20	4.60	3.50	5.30	3.90	5.60	3.90	5.80	3.90	6.20	3.80	6.70	3.70
	16.0	3.90	3.20	4.60	3.50	5.30	3.90	5.60	3.90	5.80	3.90	6.20	3.80	6.60	3.60
	18.0	3.90	3.20	4.60	3.50	5.30	3.90	5.60	3.90	5.80	3.90	6.20	3.80	6.60	3.60
	20.0	3.90	3.20	4.60	3.50	5.30	3.90	5.60	3.90	5.80	3.90	6.20	3.80	6.60	3.60
	21.0	3.90	3.20	4.60	3.50	5.30	3.90	5.60	3.90	5.80	3.90	6.20	3.80	6.60	3.60
	23.0	3.90	3.20	4.60	3.50	5.30	3.90	5.60	3.90	5.80	3.90	6.20	3.80	6.60	3.60
	25.0	3.90	3.20	4.60	3.50	5.30	3.90	5.60	3.90	5.80	3.90	6.20	3.80	6.60	3.60
	27.0	3.90	3.20	4.60	3.50	5.30	3.90	5.60	3.90	5.80	3.90	6.20	3.80	6.60	3.60
	29.0	3.90	3.20	4.60	3.50	5.30	3.90	5.60	3.90	5.80	3.90	6.20	3.80	6.60	3.60
	31.0	3.90	3.20	4.60	3.50	5.30	3.90	5.60	3.90	5.80	3.90	6.20	3.80	6.60	3.60
	33.0	3.90	3.20	4.60	3.50	5.30	3.90	5.60	3.90	5.80	3.90	6.20	3.80	6.60	3.60
	35.0	3.90	3.20	4.60	3.50	5.30	3.90	5.60	3.90	5.80	3.90	6.20	3.80	6.60	3.60
	37.0	3.90	3.20	4.60	3.50	5.30	3.90	5.60	3.90	5.80	3.90	6.20	3.80	6.60	3.50
	39.0	3.90	3.20	4.60	3.50	5.30	3.90	5.60	3.90	5.80	3.90	6.20	3.80	6.60	3.40
7.10	10.0	4.90	4.00	5.80	4.50	6.70	4.80	7.10	5.00	7.40	5.00	8.00	5.10	8.50	4.80
	12.0	4.90	4.00	5.80	4.50	6.70	4.80	7.10	5.00	7.40	5.00	7.90	5.00	8.50	4.80
	14.0	4.90	4.00	5.80	4.50	6.70	4.80	7.10	5.00	7.40	5.00	7.90	5.00	8.50	4.80
	16.0	4.90	4.00	5.80	4.50	6.70	4.80	7.10	5.00	7.40	5.00	7.90	5.00	8.40	4.80
	18.0	4.90	4.00	5.80	4.50	6.70	4.80	7.10	5.00	7.40	5.00	7.90	5.00	8.40	4.80
	20.0	4.90	4.00	5.80	4.50	6.70	4.80	7.10	5.00	7.40	5.00	7.90	5.00	8.40	4.80
	21.0	4.90	4.00	5.80	4.50	6.70	4.80	7.10	5.00	7.40	5.00	7.90	5.00	8.40	4.80
	23.0	4.90	4.00	5.80	4.50	6.70	4.80	7.10	5.00	7.40	5.00	7.90	5.00	8.40	4.80
	25.0	4.90	4.00	5.80	4.50	6.70	4.80	7.10	5.00	7.40	5.00	7.90	5.00	8.40	4.80
	27.0	4.90	4.00	5.80	4.50	6.70	4.80	7.10	5.00	7.40	5.00	7.90	5.00	8.40	4.80
	29.0	4.90	4.00	5.80	4.50	6.70	4.80	7.10	5.00	7.40	5.00	7.90	5.00	8.40	4.80
	31.0	4.90	4.00	5.80	4.50	6.70	4.80	7.10	5.00	7.40	5.00	7.90	5.00	8.40	4.80
	33.0	4.90	4.00	5.80	4.50	6.70	4.80	7.10	5.00	7.40	5.00	7.90	5.00	8.40	4.80
	35.0	4.90	4.00	5.80	4.50	6.70	4.80	7.10	5.00	7.40	5.00	7.90	5.00	8.40	4.80
	37.0	4.90	4.00	5.80	4.50	6.70	4.80	7.10	5.00	7.30	4.90	7.80	4.90	8.20	4.70
	39.0	4.90	4.00	5.80	4.50	6.70	4.80	7.10	5.00	7.30	4.90	7.70	4.80	8.10	4.60
9.00	10.0	6.20	5.20	7.30	5.70	8.40	6.30	9.00	6.30	9.40	6.30	10.10	6.30	10.80	6.30
	12.0	6.20	5.20	7.30	5.70	8.40	6.30	9.00	6.30	9.40	6.30	10.10	6.30	10.80	6.30
	14.0	6.20	5.20	7.30	5.70	8.40	6.30	9.00	6.30	9.30	6.30	10.00	6.20	10.70	6.20
	16.0	6.20	5.20	7.30	5.70	8.40	6.30	9.00	6.30	9.30	6.30	10.00	6.20	10.70	6.20
	18.0	6.20	5.20	7.30	5.70	8.40	6.30	9.00	6.30	9.30	6.30	10.00	6.20	10.60	6.10
	20.0	6.20	5.20	7.30	5.70	8.40	6.30	9.00	6.30	9.30	6.30	10.00	6.20	10.60	6.10
	21.0	6.20	5.20	7.30	5.70	8.40	6.30	9.00	6.30	9.30	6.30	10.00	6.20	10.60	6.10
	23.0	6.20	5.20	7.30	5.70	8.40	6.30	9.00	6.30	9.30	6.30	10.00	6.20	10.60	6.10
	25.0	6.20	5.20	7.30	5.70	8.40	6.30	9.00	6.30	9.30	6.30	10.00	6.20	10.60	6.10
	27.0	6.20	5.20	7.30	5.70	8.40	6.30	9.00	6.30	9.30	6.30	10.00	6.20	10.60	6.10
	29.0	6.20	5.20	7.30	5.70	8.40	6.30	9.00	6.30	9.30	6.30	10.00	6.20	10.60	6.10
	31.0	6.20	5.20	7.30	5.70	8.40	6.30	9.00	6.30	9.30	6.30	10.00	6.20	10.60	6.10
	33.0	6.20	5.20	7.30	5.70	8.40	6.30	9.00	6.30	9.30	6.30	10.00	6.20	10.60	6.10
	35.0	6.20	5.20	7.30	5.70	8.40	6.30	9.00	6.30	9.30	6.30	10.00	6.20	10.60	6.10
	37.0	6.20	5.20	7.30	5.70	8.40	6.30	9.00	6.30	9.30	6.30	9.90	6.10	10.40	6.00
	39.0	6.20	5.20	7.30	5.70	8.40	6.30	9.00	6.40	9.20	6.20	9.70	6.00	10.20	5.90
11.20	10.0	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
	12.0	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
	14.0	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
	16.0	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
	18.0	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
	20.0	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
	21.0	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
	23.0	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
	25.0	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
	27.0	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
	29.0	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
	31.0	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
	33.0	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
	35.0	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
	37.0	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
	39.0	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

360 Cassette

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity

Model	Outdoor Air Temp. (DB)	Indoor temperature													
		20 (ºC, DB)		23 (ºC, DB)		26 (ºC, DB)		27 (ºC, DB)		28 (ºC, DB)		30 (ºC, DB)		32 (ºC, DB)	
		14 (ºC, WB)		16 (ºC, WB)		18 (ºC, WB)		19 (ºC, WB)		20 (ºC, WB)		22 (ºC, WB)		24 (ºC, WB)	
		TC(kW)	SHC(kW)	TC(kW)	SHC(kW)	TC(kW)	SHC(kW)	TC(kW)	SHC(kW)	TC(kW)	SHC(kW)	TC(kW)	SHC(kW)	TC(kW)	SHC(kW)
12.80	10.0	8.80	7.30	10.40	8.10	12.00	9.00	12.80	9.10	13.30	9.10	14.30	9.10	15.40	9.10
	12.0	8.80	7.30	10.40	8.10	12.00	9.00	12.80	9.10	13.30	9.10	14.30	9.10	15.30	9.00
	14.0	8.80	7.30	10.40	8.10	12.00	9.00	12.80	9.10	13.30	9.10	14.30	9.10	15.30	9.00
	16.0	8.80	7.30	10.40	8.10	12.00	9.00	12.80	9.10	13.30	9.10	14.20	9.00	15.20	8.90
	18.0	8.80	7.30	10.40	8.10	12.00	9.00	12.80	9.10	13.30	9.10	14.20	9.00	15.10	8.80
	20.0	8.80	7.30	10.40	8.10	12.00	9.00	12.80	9.10	13.30	9.10	14.20	9.00	15.10	8.80
	21.0	8.80	7.30	10.40	8.10	12.00	9.00	12.80	9.10	13.30	9.10	14.20	9.00	15.10	8.80
	23.0	8.80	7.30	10.40	8.10	12.00	9.00	12.80	9.10	13.30	9.10	14.20	9.00	15.10	8.80
	25.0	8.80	7.30	10.40	8.10	12.00	9.00	12.80	9.10	13.30	9.10	14.20	9.00	15.10	8.80
	27.0	8.80	7.30	10.40	8.10	12.00	9.00	12.80	9.10	13.30	9.10	14.20	9.00	15.10	8.80
	29.0	8.80	7.30	10.40	8.10	12.00	9.00	12.80	9.10	13.30	9.10	14.20	9.00	15.10	8.80
	31.0	8.80	7.30	10.40	8.10	12.00	9.00	12.80	9.10	13.30	9.10	14.20	9.00	15.10	8.80
	33.0	8.80	7.30	10.40	8.10	12.00	9.00	12.80	9.10	13.30	9.10	14.20	9.00	15.10	8.80
	35.0	8.80	7.30	10.40	8.10	12.00	9.00	12.80	9.10	13.30	9.10	14.20	9.00	15.10	8.80
	37.0	8.80	7.30	10.40	8.10	12.00	9.00	12.80	9.10	13.20	9.00	14.00	8.90	14.90	8.70
	39.0	8.80	7.30	10.40	8.10	12.00	9.00	12.80	9.20	13.10	8.90	13.80	8.80	14.50	8.60
14.00	10.0	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
	12.0	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
	14.0	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
	16.0	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
	18.0	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
	20.0	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
	21.0	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
	23.0	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
	25.0	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
	27.0	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
	29.0	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
	31.0	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
	33.0	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
	35.0	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
	37.0	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
	39.0	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

360 Cassette

Heating

TC : Total Capacity

Model	Outdoor Air Temp. (ºC)		Indoor temperature				
			16 (ºC, DB)	18 (ºC, DB)	20 (ºC, DB)	22 (ºC, DB)	24 (ºC, DB)
	DB	WB	TC(kW)	TC(kW)	TC(kW)	TC(kW)	TC(kW)
4.50	-20.0	-21.0	3.10	3.10	2.90	2.90	2.90
	-17.0	-18.0	3.20	3.20	3.10	3.00	3.00
	-15.0	-16.0	3.30	3.30	3.20	3.10	3.00
	-12.0	-13.0	3.50	3.40	3.40	3.30	3.20
	-10.0	-11.0	3.70	3.60	3.60	3.50	3.50
	-7.0	-8.0	3.90	3.80	3.80	3.70	3.60
	-5.0	-6.0	4.10	4.00	4.00	3.90	3.70
	-3.0	-4.0	4.30	4.20	4.20	4.00	3.90
	0.0	-1.0	4.50	4.40	4.40	4.20	4.00
	3.0	2.2	4.70	4.70	4.60	4.40	4.20
	5.0	4.1	4.90	4.90	4.80	4.50	4.20
	7.0	6.0	5.10	5.10	5.00	4.60	4.20
	9.0	7.9	5.30	5.20	5.00	4.60	4.20
	11.0	9.8	5.50	5.20	5.00	4.60	4.20
	13.0	12.0	5.60	5.30	5.00	4.60	4.20
	15.0	14.0	5.80	5.40	5.00	4.60	4.20
5.60	-20.0	-21.0	3.90	3.80	3.80	3.70	3.70
	-17.0	-18.0	4.00	4.00	3.90	3.80	3.80
	-15.0	-16.0	4.20	4.10	4.00	3.90	3.80
	-12.0	-13.0	4.40	4.30	4.20	4.20	4.10
	-10.0	-11.0	4.60	4.60	4.50	4.40	4.40
	-7.0	-8.0	4.90	4.80	4.80	4.70	4.50
	-5.0	-6.0	5.20	5.10	5.00	4.90	4.70
	-3.0	-4.0	5.40	5.30	5.30	5.10	4.90
	0.0	-1.0	5.70	5.60	5.50	5.30	5.00
	3.0	2.2	5.90	5.90	5.80	5.60	5.30
	5.0	4.1	6.20	6.10	6.00	5.70	5.30
	7.0	6.0	6.50	6.40	6.30	5.80	5.30
	9.0	7.9	6.70	6.50	6.30	5.80	5.30
	11.0	9.8	6.90	6.60	6.30	5.80	5.30
	13.0	12.0	7.10	6.70	6.30	5.80	5.30
	15.0	14.0	7.30	6.80	6.30	5.80	5.30
7.10	-20.0	-21.0	4.90	4.90	4.80	4.70	4.70
	-17.0	-18.0	5.10	5.00	4.90	4.80	4.80
	-15.0	-16.0	5.30	5.20	5.10	4.90	4.80
	-12.0	-13.0	5.60	5.50	5.40	5.30	5.20
	-10.0	-11.0	5.90	5.80	5.70	5.60	5.60
	-7.0	-8.0	6.20	6.10	6.00	5.90	5.80
	-5.0	-6.0	6.50	6.50	6.40	6.20	6.00
	-3.0	-4.0	6.90	6.80	6.70	6.40	6.20
	0.0	-1.0	7.20	7.10	7.00	6.70	6.40
	3.0	2.2	7.60	7.50	7.30	7.10	6.80
	5.0	4.1	7.90	7.80	7.70	7.20	6.80
	7.0	6.0	8.20	8.10	8.00	7.40	6.80
	9.0	7.9	8.50	8.20	8.00	7.40	6.80
	11.0	9.8	8.70	8.40	8.00	7.40	6.80
	13.0	12.0	9.00	8.50	8.00	7.40	6.80
	15.0	14.0	9.20	8.60	8.00	7.40	6.80
9.00	-20.0	-21.0	6.00	6.00	5.90	5.80	5.80
	-17.0	-18.0	6.30	6.30	6.10	6.00	5.90
	-15.0	-16.0	6.70	6.50	6.30	6.10	6.00
	-12.0	-13.0	7.00	6.90	6.70	6.60	6.50
	-10.0	-11.0	7.30	7.20	7.10	7.00	7.00
	-7.0	-8.0	7.80	7.70	7.60	7.40	7.20
	-5.0	-6.0	8.20	8.10	8.00	7.70	7.50
	-3.0	-4.0	8.60	8.50	8.40	8.10	7.70
	0.0	-1.0	9.00	8.90	8.80	8.40	8.00
	3.0	2.2	9.40	9.30	9.20	8.80	8.40
	5.0	4.1	9.90	9.70	9.60	9.00	8.40
	7.0	6.0	10.30	10.10	10.00	9.20	8.40
	9.0	7.9	10.60	10.30	10.00	9.20	8.40
	11.0	9.8	10.90	10.50	10.00	9.20	8.40
	13.0	12.0	11.20	10.60	10.00	9.20	8.40
	15.0	14.0	11.60	10.80	10.00	9.20	8.40
11.20	-20.0	-21.0	7.40	7.40	7.30	7.30	7.30
	-17.0	-18.0	8.00	7.80	7.60	7.50	7.40
	-15.0	-16.0	8.40	8.10	7.90	7.70	7.50
	-12.0	-13.0	8.80	8.60	8.40	8.20	8.10
	-10.0	-11.0	9.20	9.00	8.90	8.80	8.70
	-7.0	-8.0	9.70	9.60	9.40	9.20	9.00
	-5.0	-6.0	10.20	10.10	9.90	9.60	9.30
	-3.0	-4.0	10.70	10.60	10.50	10.10	9.70
	0.0	-1.0	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	12.0	14.00	13.30	12.50	11.50	10.60
	15.0	14.0	14.40	13.50	12.50	11.50	10.60

360 Cassette

Heating

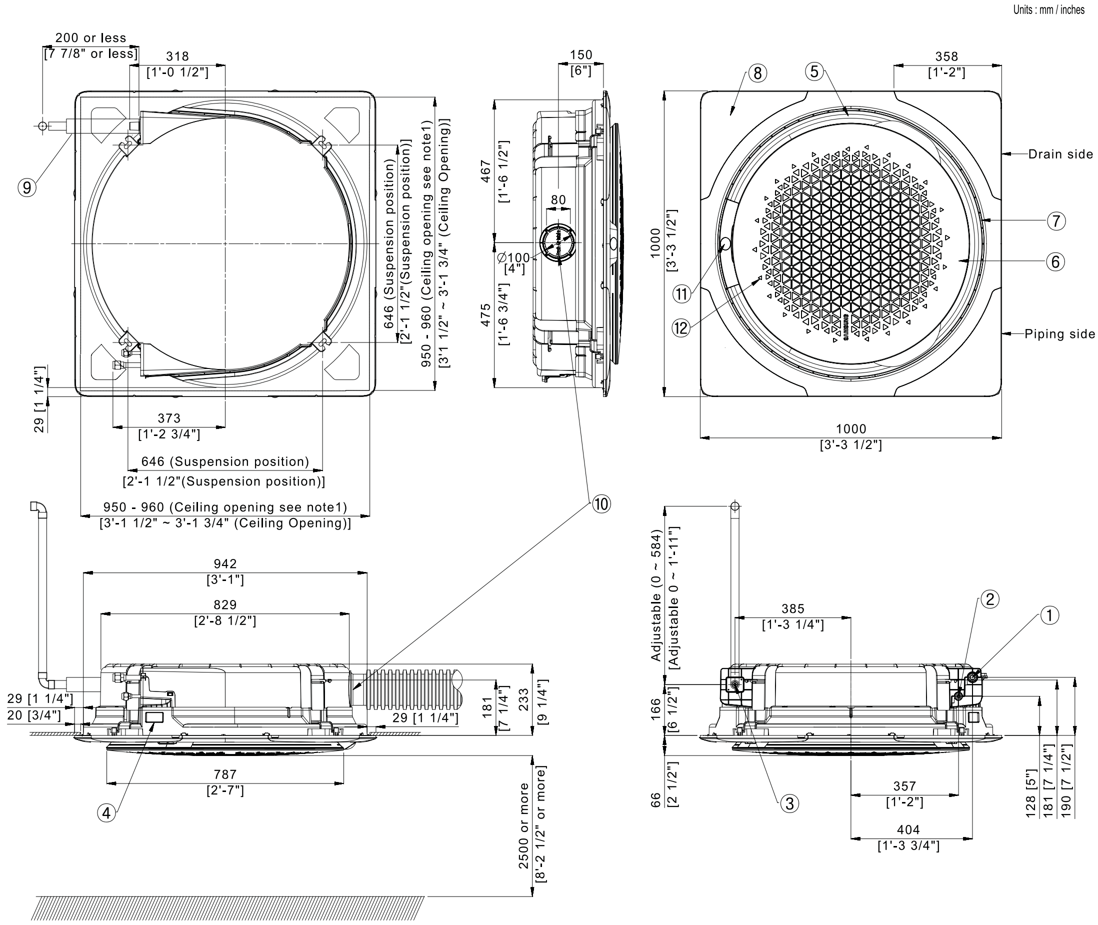
TC : Total Capacity

Model	Outdoor Air Temp. (ºC)		Indoor temperature				
			16 (ºC, DB)	18 (ºC, DB)	20 (ºC, DB)	22 (ºC, DB)	24 (ºC, DB)
	DB	WB	TC(kW)	TC(kW)	TC(kW)	TC(kW)	TC(kW)
12.80	-20.0	-21.0	8.10	8.10	8.00	8.00	8.00
	-17.0	-18.0	8.70	8.50	8.40	8.30	8.10
	-15.0	-16.0	9.20	9.00	8.70	8.50	8.20
	-12.0	-13.0	9.70	9.50	9.30	9.10	8.90
	-10.0	-11.0	10.10	10.00	9.90	9.70	9.60
	-7.0	-8.0	10.70	10.60	10.40	10.20	10.00
	-5.0	-6.0	11.30	11.10	11.00	10.70	10.30
	-3.0	-4.0	11.90	11.70	11.50	11.10	10.70
	0.0	-1.0	12.40	12.30	12.10	11.60	11.00
	3.0	2.2	13.00	12.90	12.70	12.20	11.70
	5.0	4.1	13.60	13.40	13.20	12.40	11.70
	7.0	6.0	14.20	14.00	13.80	12.70	11.70
	9.0	7.9	14.60	14.20	13.80	12.70	11.70
	11.0	9.8	15.10	14.40	13.80	12.70	11.70
	13.0	12.0	15.50	14.70	13.80	12.70	11.70
	15.0	14.0	15.90	14.90	13.80	12.70	11.70
14.00	-20.0	-21.0	9.50	9.50	9.40	9.40	9.30
	-17.0	-18.0	10.00	9.90	9.60	9.60	9.40
	-15.0	-16.0	10.70	10.40	10.10	9.80	9.50
	-12.0	-13.0	11.20	11.00	10.80	10.60	10.30
	-10.0	-11.0	11.70	11.60	11.40	11.30	11.10
	-7.0	-8.0	12.40	12.20	12.10	11.80	11.50
	-5.0	-6.0	13.10	12.90	12.70	12.30	12.00
	-3.0	-4.0	13.80	13.60	13.40	12.90	12.40
	0.0	-1.0	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	12.0	18.00	17.00	16.00	14.80	13.50
	15.0	14.0	18.50	17.20	16.00	14.80	13.50

3 Dimensional drawing

360 Cassette

AM045KN4DEH/EU, AM056KN4DEH/EU, AM071KN4DEH/EU, AM090KN4DEH/EU



Note

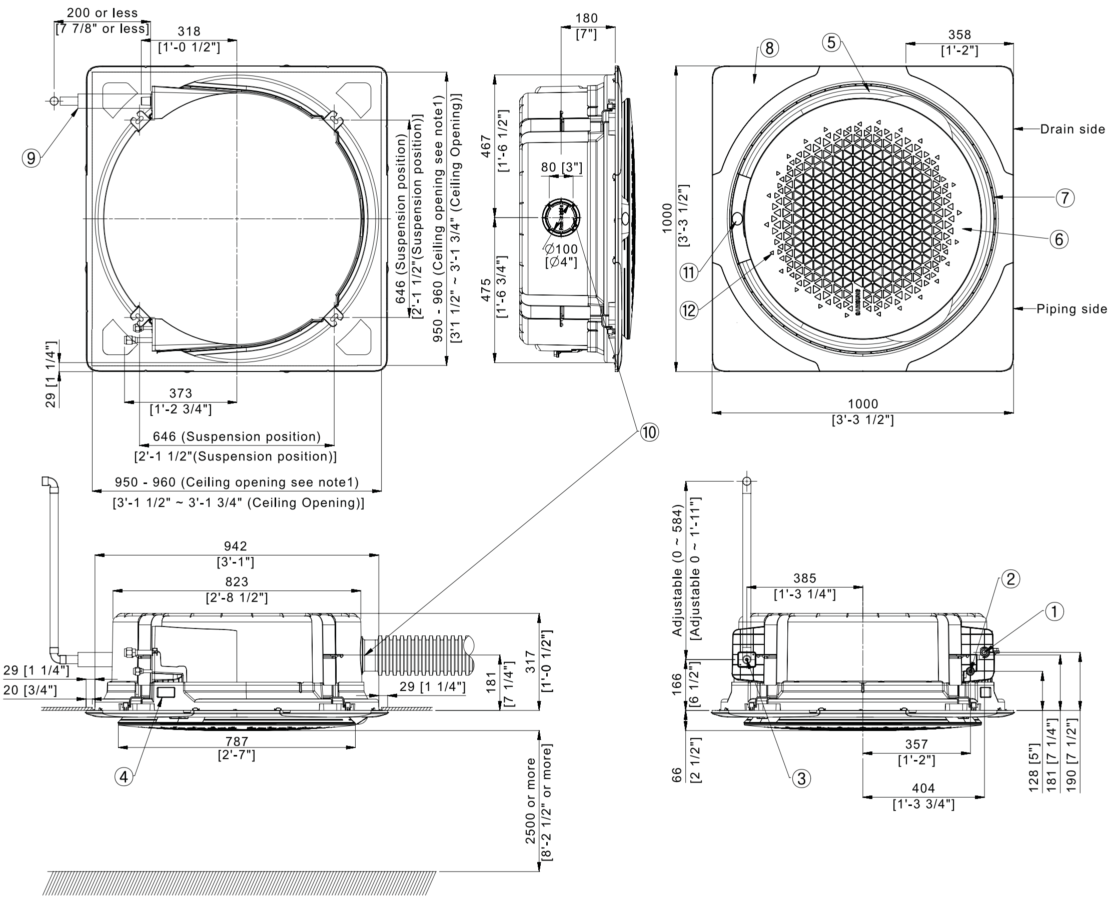
1. Make sure the spacing between the ceiling and the cassette is no more than 10mm[3/8"].
2. When the conditions exceed 30℃[86°F] and RH 80% in the ceiling or fresh air is inducted into the ceiling, and additional insulation is required (polyethylene foam, thickness 10mm[3/8"] or more)
3. Ceiling type panel model code : PC4NUDMAN

Table of descriptions			
1	Refrigerant gas pipe	7	Suction rim for Booster fan
2	Refrigerant liquid pipe	8	Decoration cover
3	Condensate drain	9	Drain hose
4	Power & Comm. wiring conduits	10	Fresh air intake knock out hole
5	Air discharge opening	11	Display window
6	Air suction grille	12	Infrared receiver

360 Cassette

AM112KN4DEH/EU, AM128KN4DEH/EU, AM140KN4DEH/EU

Units : mm / inches



Note

1. Make sure the spacing between the ceiling and the cassette is no more than 29mm[1 1/4"]. Max ceiling opening : 960mm[3'-1 3/4"]
2. When the conditions exceed 30℃ and RH 80% in the ceiling or fresh air is inducted into the ceiling, and additional insulation is required (polyethylene foam, thickness 10mm[3/8"] or more)
3. Ceiling type panel model code : PC4NUDMAN

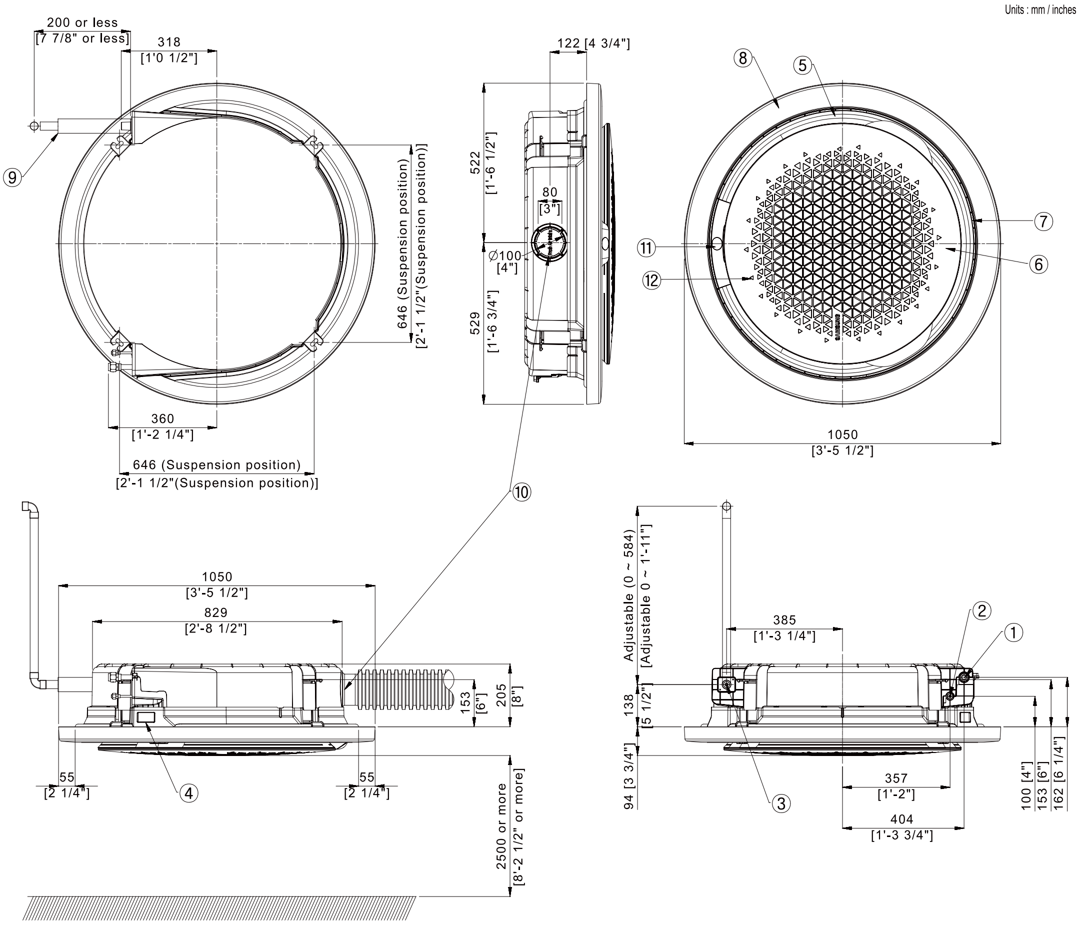
Table of descriptions			
1	Refrigerant gas pipe	7	Suction rim for Booster fan
2	Refrigerant liquid pipe	8	Corner decoration cover
3	Condensate drain	9	Drain hose
4	Power & Comm. wiring conduits	10	Fresh air intake knock out hole
5	Air discharge opening	11	Display window
6	Air suction grille	12	Infrared receiver

3 Dimensional drawing

360 Cassette

AM045KN4DEH/EU, AM056KN4DEH/EU, AM071KN4DEH/EU, AM090KN4DEH/EU

Units : mm / inches



Note

1. Make sure the spacing between the ceiling and the cassette is no more than 10mm[3/8"].
2. When the conditions exceed 30℃[86°F] and RH 80% in the ceiling or fresh air is inducted into the ceiling, and additional insulation is required (polyethylene foam, thickness 10mm[3/8"] or more)
3. Open type panel model code : PC4NUNMAN

4.The circular panel is by default available in exposed installation.
5. Make inspection holes on the ceiling for easier installation and maintenance, as shown in the following table.
(The size of an inspection hole must be at least 450 mm x 450 mm.)
6. A suspended ceiling structure can substitute for the inspection holes.

Category	Inspection hole		
	Recessed installation		Exposed installation
	Integrated	Suspended	
Square panel	1 ea	-	
Circular panel	2 ea		

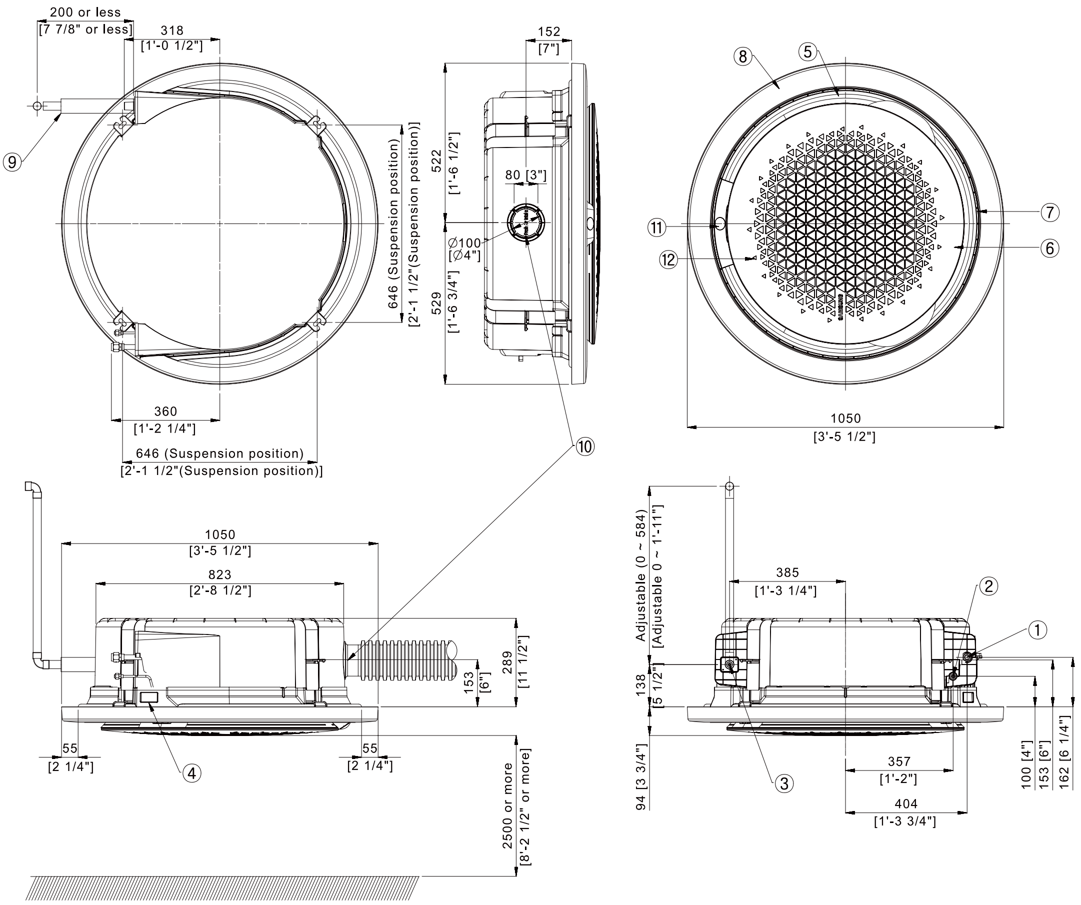
Table of descriptions			
1	Refrigerant gas pipe	7	Suction rim for Booster fan
2	Refrigerant liquid pipe	8	Decoration cover
3	Condensate drain	9	Drain hose
4	Power & Comm. wiring conduits	10	Fresh air intake knock out hole
5	Air discharge opening	11	Display window
6	Air suction grille	12	Infrared receiver

3 Dimensional drawing

360 Cassette

AM112KN4DEH/EU, AM128KN4DEH/EU, AM140KN4DEH/EU

Units : mm / inches



Note

1. Make sure the spacing between the ceiling and the cassette is no more than 10mm[3/8"].
2. When the conditions exceed 30℃[86˚F] and RH 80% in the ceiling or fresh air is inducted into the ceiling, and additional insulation is required (polyethylene foam, thickness 10mm[3/8"] or more)
3. Open type panel model code : PC4NUNMAN
4. The circular panel is by default available in exposed installation.
5. Make inspection holes on the ceiling for easier installation and maintenance, as shown in the following table. (The size of an inspection hole must be at least 450 mm x 450 mm.)
6. A suspended ceiling structure can substitute for the inspection holes.

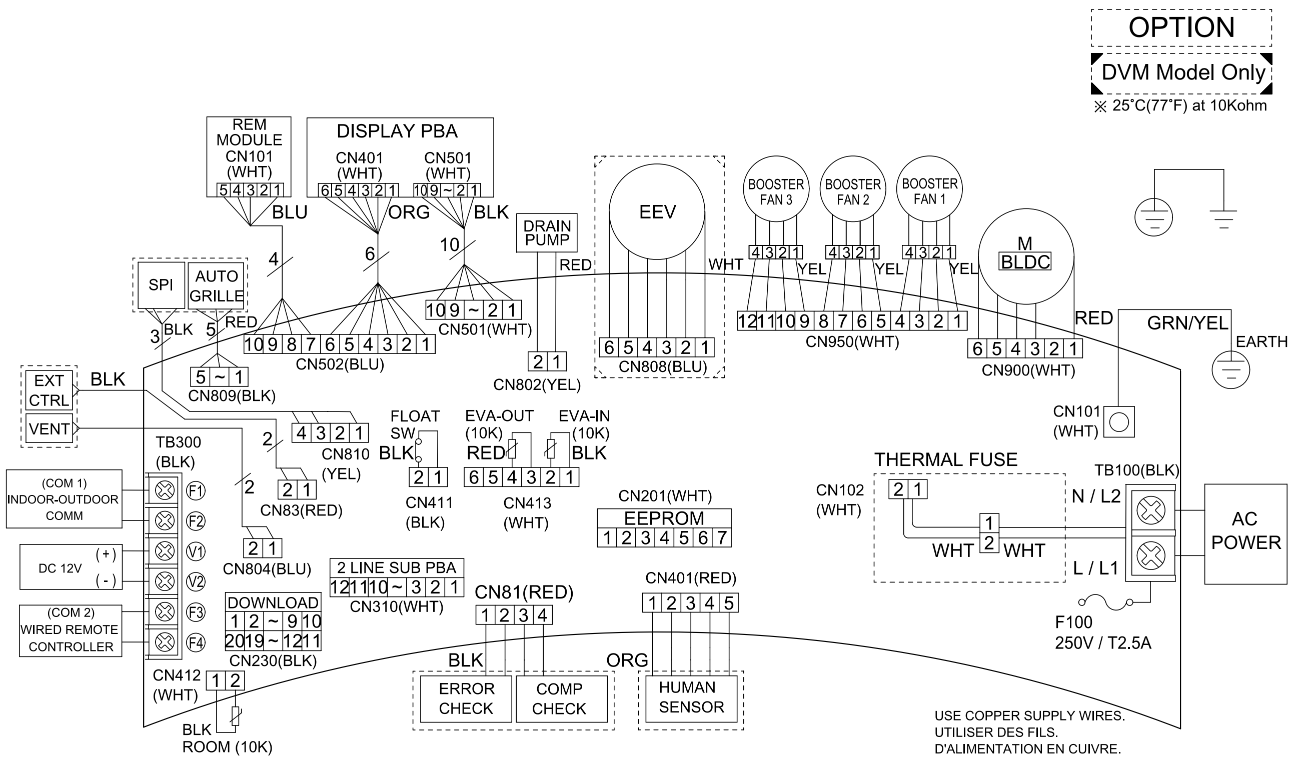
Category	Inspection hole		
	Recessed installation		Exposed installation
	Integrated	Suspended	
Square panel	1 ea	-	
Circular panel	2 ea		

Table of descriptions			
1	Refrigerant gas pipe	7	Suction rim for Booster fan
2	Refrigerant liquid pipe	8	Decoration cover
3	Condensate drain	9	Drain hose
4	Power & Comm. wiring conduits	10	Fresh air intake knock out hole
5	Air discharge opening	11	Display window
6	Air suction grille	12	Infrared receiver

4 Electrical wiring diagram

360 Cassette

AM045KN4DEH/EU, AM056KN4DEH/EU, AM071KN4DEH/EU, AM090KN4DEH/EU, AM112KN4DEH/EU, AM128KN4DEH/EU, AM140KN4DEH/EU



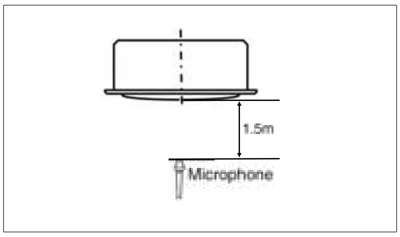
LED LAMP DISPLAY ● On ◑ Flickering	LED DISPLAY FOR ERROR DETECTION	LED LAMP DISPLAY ● On ◑ Flickering	LED DISPLAY FOR ERROR DETECTION
● ICE BLU	Operating	● RED	Smart Install Error(Only CAC Model)
◑ ICE BLU	Power Reset (Flickering every 2 seconds)	◑ RED - GRN Alternation of Flickering	Error of EVA- IN / OUT / DISCHARGE Sensor In the Indoor Unit (Open/short)
◑ ICE BLU	Defrosting Operation (Flickering every 10 Seconds)	◑ RED - BLU Alternation of Flickering	Error of Fan Motor In the Indoor Unit
● BLU	Reserving Mode	◑ GRN - BLU Alternation of Flickering	Detection of the Float Switch
● GRN	Filter Usage Expiration	◑ ICE BLU - BLU Alternation of Flickering	Detection of the Thermal Fuse Open
◑ RED	Error of Room Sensor In the Indoor Unit (Open/short)	◑ ICE BLU - RED Alternation of Flickering	Miss Matching Of Indoor and Outdoor Unit(Only DVM Model)
◑ BLU	Error Of Outdoor Unit	◑ ICE BLU - GRN Alternation of Flickering	Mixed Operation Mode Error of Indoor Unit(Only DVM Model)
◑ GRN	No Communication For 2 Minutes Between Indoor and Outdoor Unit	◑ RED - ICE BLU - GRN Alternation of Flickering	Error of EEPROM

M-BLDC	BLDC Motor	SPI	S-Plasma ion	ROOM(10K)	Thermistor ROOM OUT(10K)
Thermal Fuse	Terminal Block thermal fuse	EEV	Electronic Expansion Valve	EVA-IN(10K)	Thermistor EVA IN(10K)
		F100	Main fuse, 250V/T2.5A	EVA-OUT(10K)	Thermistor EVA OUT(10K)

NOTE

- This wiring diagram applies only to the indoor unit.
- Symbols show as follow :
  BLK: black, RED: red, BLU: blue, WHT: white, YEL: yellow, BRN: brown, SKY: sky blue, GRN: green
- For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remote controller transmission F3-F4.
- ⊜ Protective earth(SCREW)

360 Cassette



Unit: dB(A)

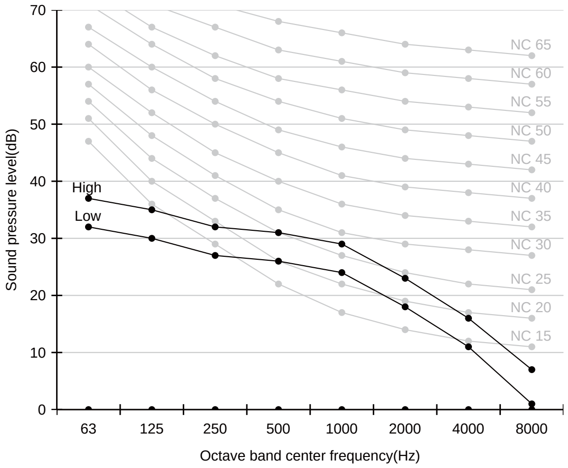
Model	High	Low
AM045KN4DEH/EU	33	29
AM056KN4DEH/EU	34	29
AM071KN4DEH/EU	36	30
AM090KN4DEH/EU	40	32

Note

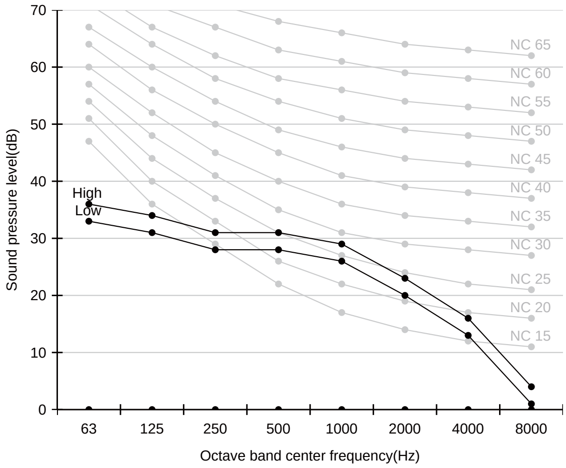
Specifications may be subject to change without prior notice.
Sound pressure level is obtained in an anechoic room.
Sound pressure level is a relative value, depending on the distance and acoustic environment.
Sound pressure level may differ depending on operation condition.
dBA = A-weighted sound pressure level
Reference acoustic pressure 0 dB= 20 uPa

NC curve

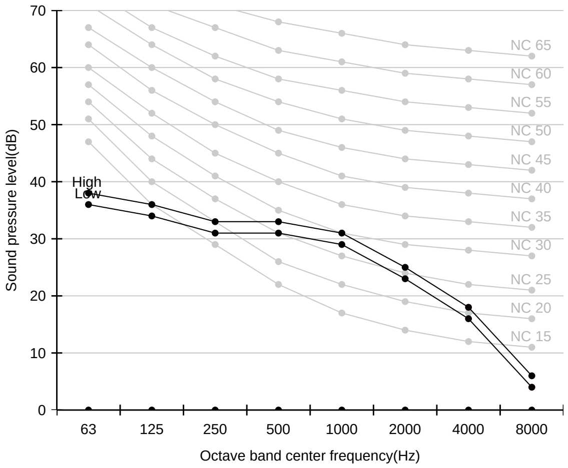
1) AM045KN4DEH/EU



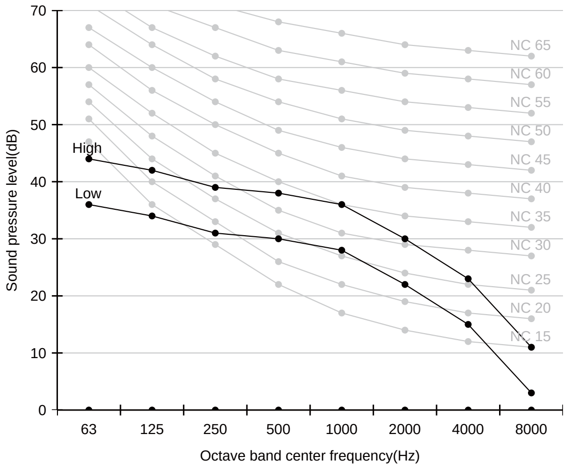
2) AM056KN4DEH/EU



3) AM071KN4DEH/EU

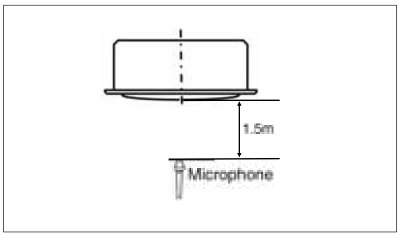


4) AM090KN4DEH/EU



5 Sound pressure level

360 Cassette



Unit: dB(A)

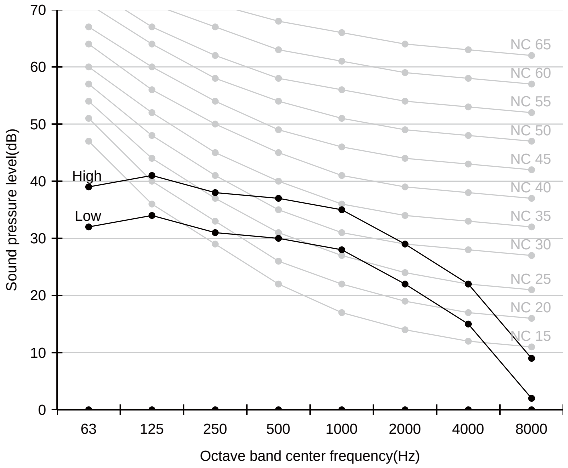
Model	High	Low
AM112KN4DEH/EU	40	32
AM128KN4DEH/EU	42	33
AM140KN4DEH/EU	44	35

Note

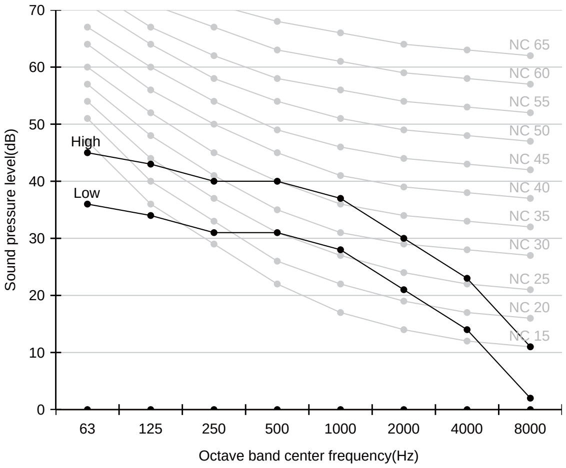
Specifications may be subject to change without prior notice.
Sound pressure level is obtained in an anechoic room.
Sound pressure level is a relative value, depending on the distance and acoustic environment.
Sound pressure level may differ depending on operation condition.
dBA = A-weighted sound pressure level
Reference acoustic pressure 0 dB= 20 uPa

NC curve

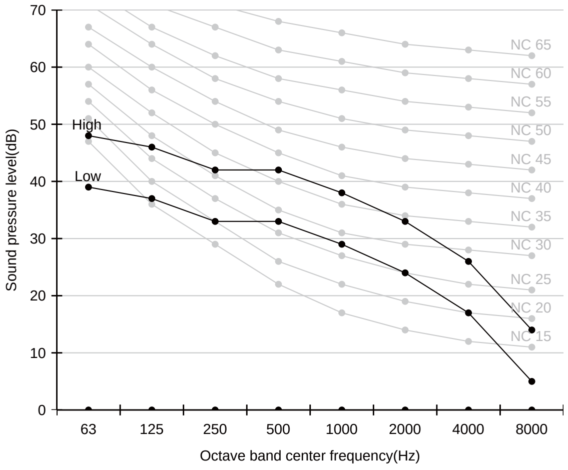
1) AM112KN4DEH/EU



2) AM128KN4DEH/EU



3) AM140KN4DEH/EU



6 Sound power level

360 Cassette

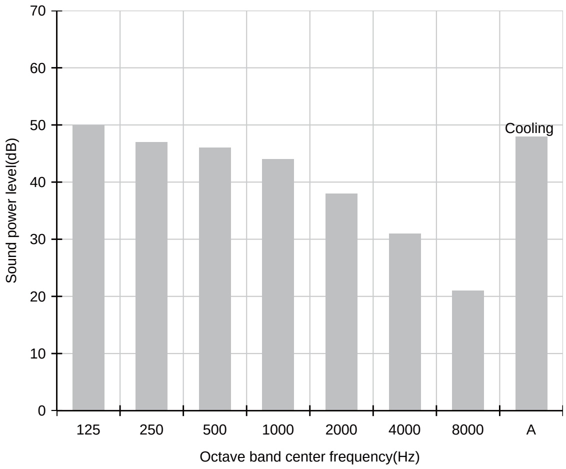
Note

. Specifications may be subject to change without prior notice.
. Sound power level is an absolute value that a sound source generates.
. dBA = A-weighted sound power level.
. Reference power : 1pW.
. Measured according to ISO 3741

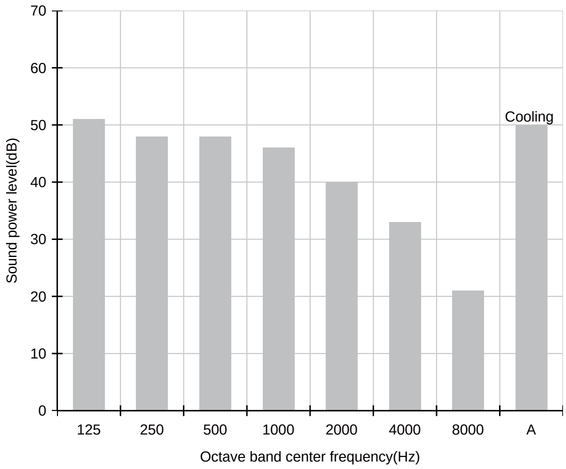
Unit: dB(A)

Model	Power
AM045KN4DEH/EU	50
AM056KN4DEH/EU	51
AM071KN4DEH/EU	53
AM090KN4DEH/EU	57

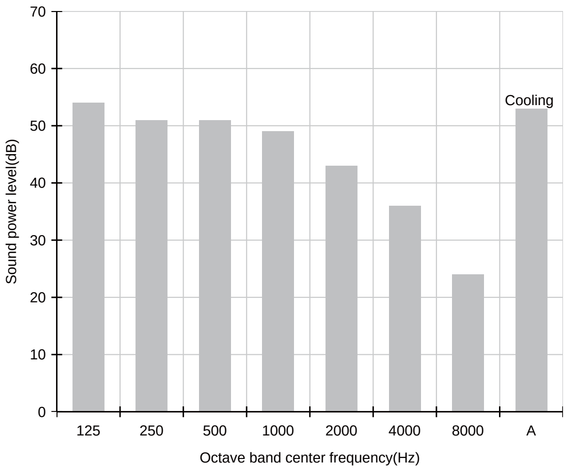
1)AM045KN4DEH/EU



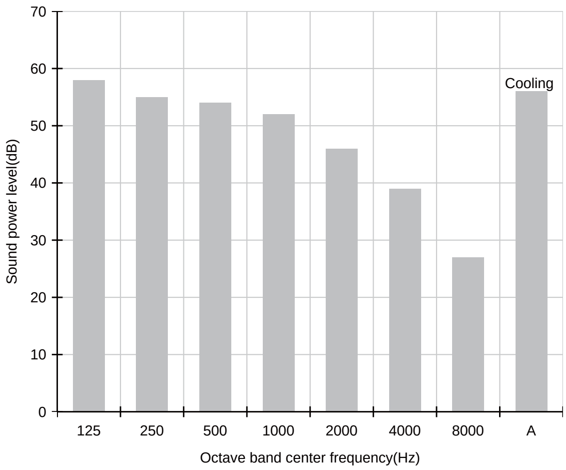
2)AM056KN4DEH/EU



3)AM071KN4DEH/EU



4)AM090KN4DEH/EU



6 Sound power level

360 Cassette

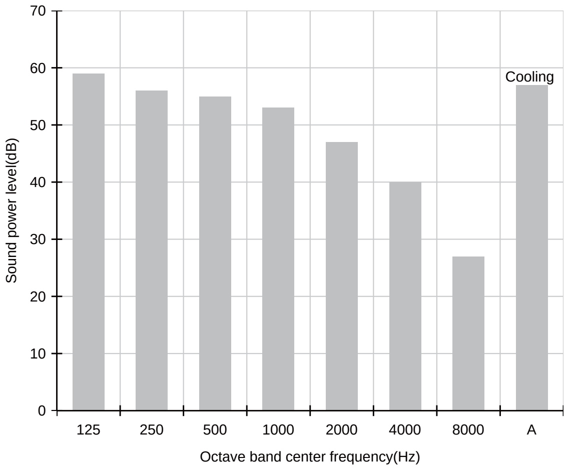
Note

. Specifications may be subject to change without prior notice.
. Sound power level is an absolute value that a sound source generates.
. dBA = A-weighted sound power level.
. Reference power : 1pW.
. Measured according to ISO 3741

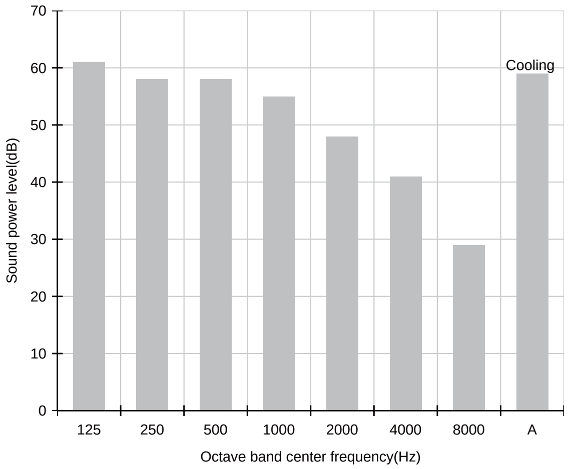
Unit: dB(A)

Model	Power
AM112KN4DEH/EU	58
AM128KN4DEH/EU	60
AM140KN4DEH/EU	61

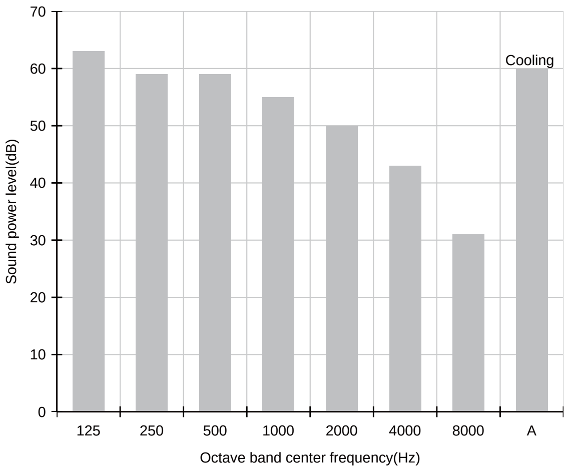
1)AM112KN4DEH/EU



2)AM128KN4DEH/EU



3)AM140KN4DEH/EU



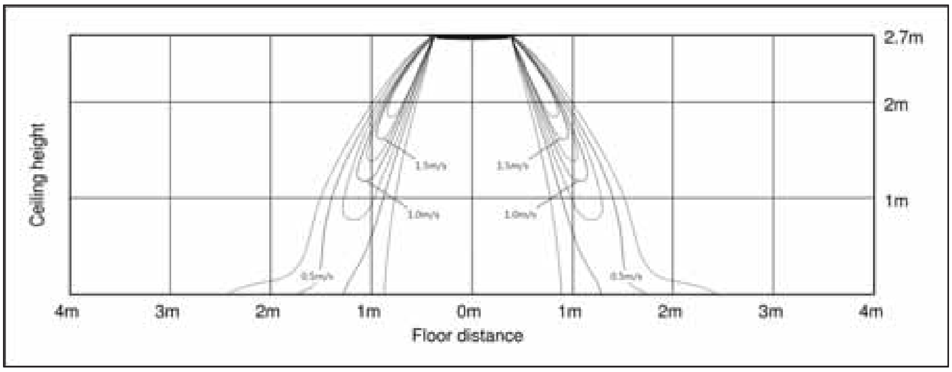
7 Temperature and air flow distribution

360 Cassette

AM045KN4DEH/EU

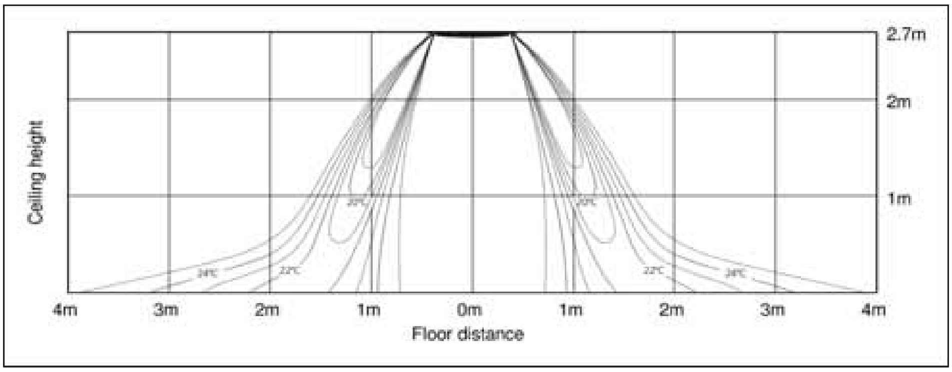
(1) Cooling air velocity distribution

Discharge angle : 60º



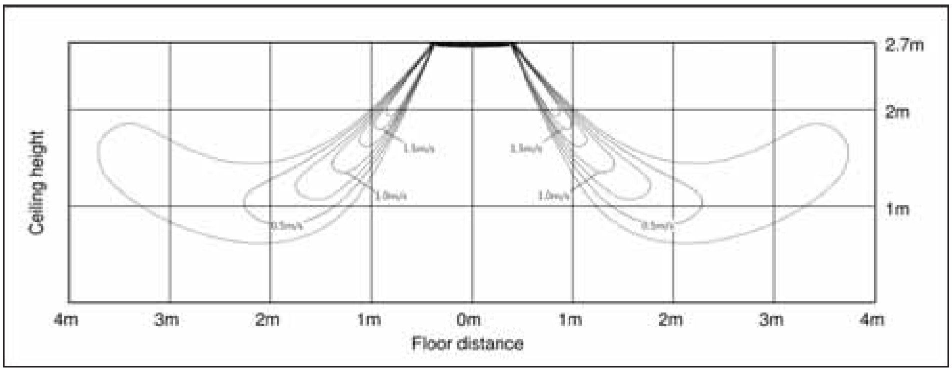
(2) Cooling temperature distribution

Discharge angle : 60º



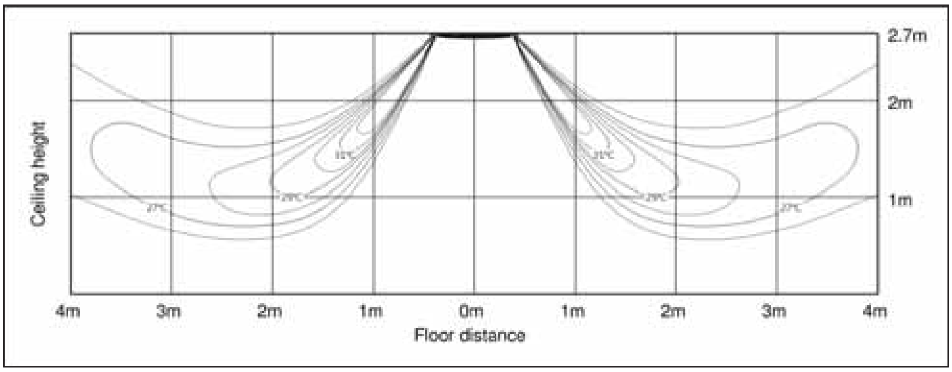
(3) Heating air velocity distribution

Discharge angle : 60º



(4) Heating temperature distribution

Discharge angle : 60º

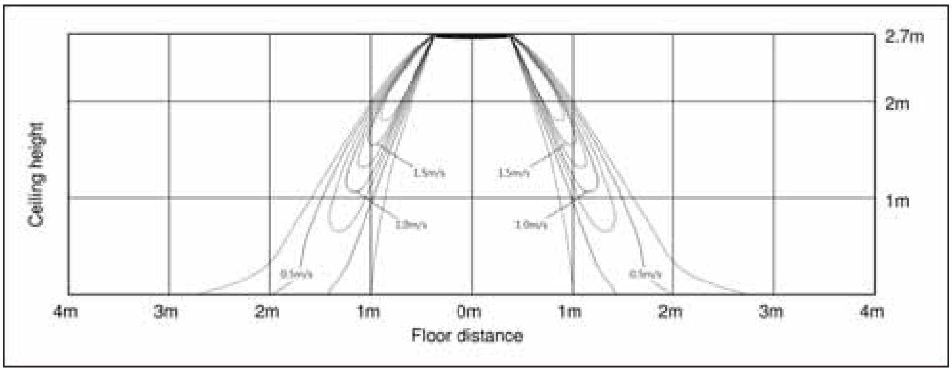


360 Cassette

AM056KN4DEH/EU

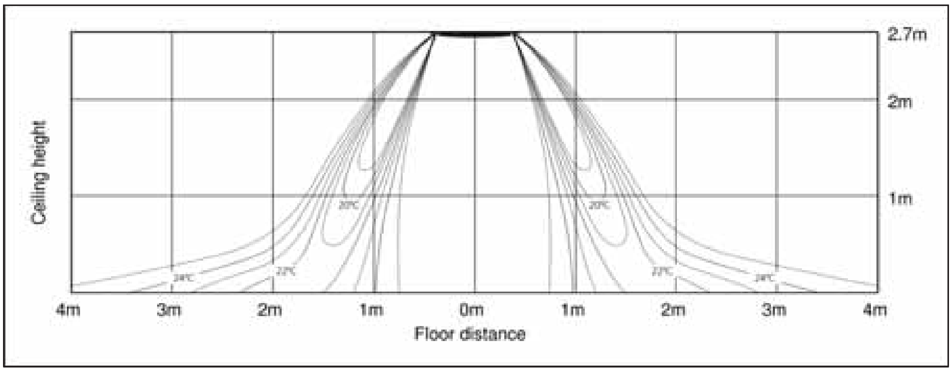
(1) Cooling air velocity distribution

Discharge angle : 60º



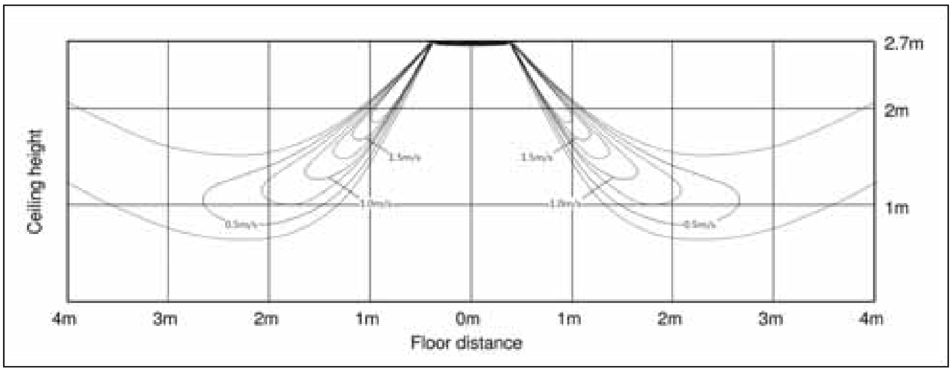
(2) Cooling temperature distribution

Discharge angle : 60º



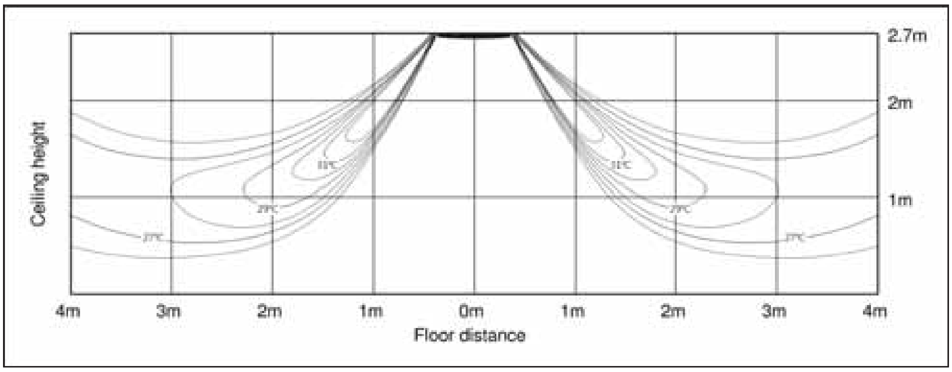
(3) Heating air velocity distribution

Discharge angle : 60º



(4) Heating temperature distribution

Discharge angle : 60º



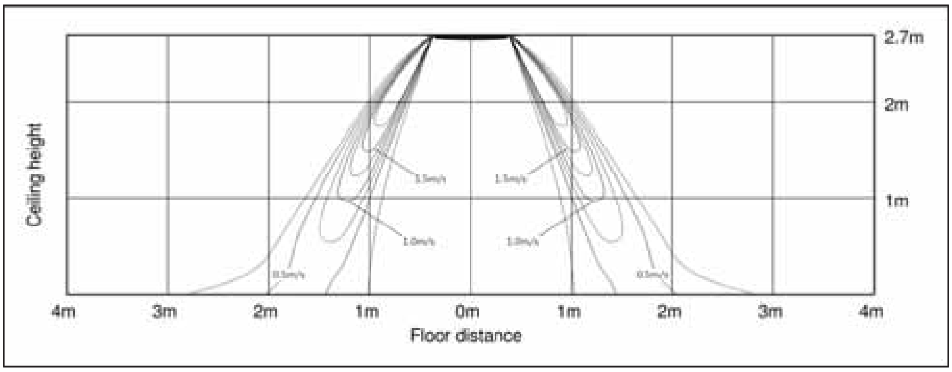
7 Temperature and air flow distribution

360 Cassette

AM071KN4DEH/EU

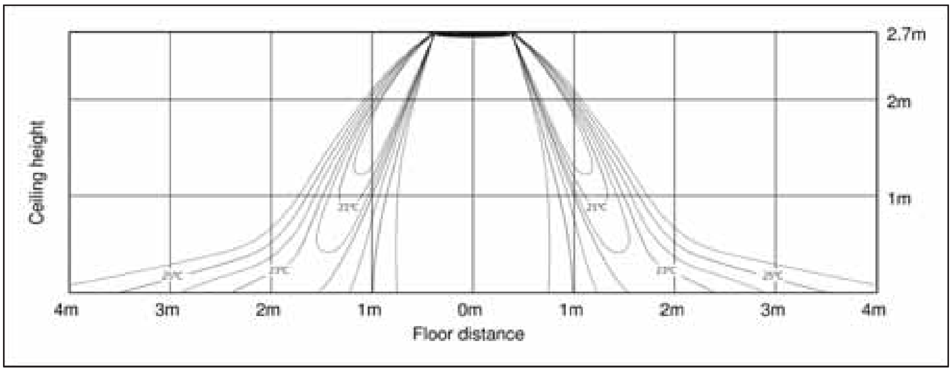
(1) Cooling air velocity distribution

Discharge angle : 60º



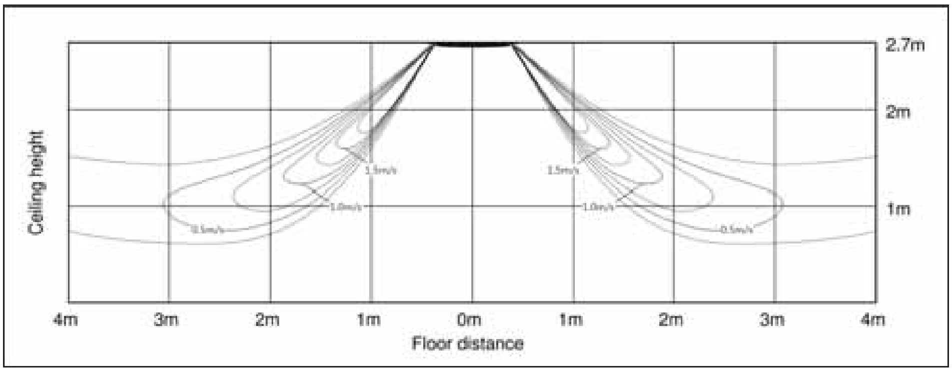
(2) Cooling temperature distribution

Discharge angle : 60º



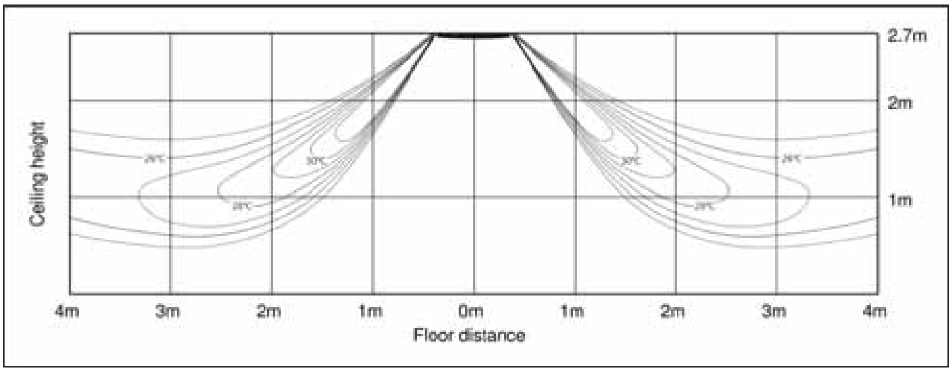
(3) Heating air velocity distribution

Discharge angle : 60º



(4) Heating temperature distribution

Discharge angle : 60º



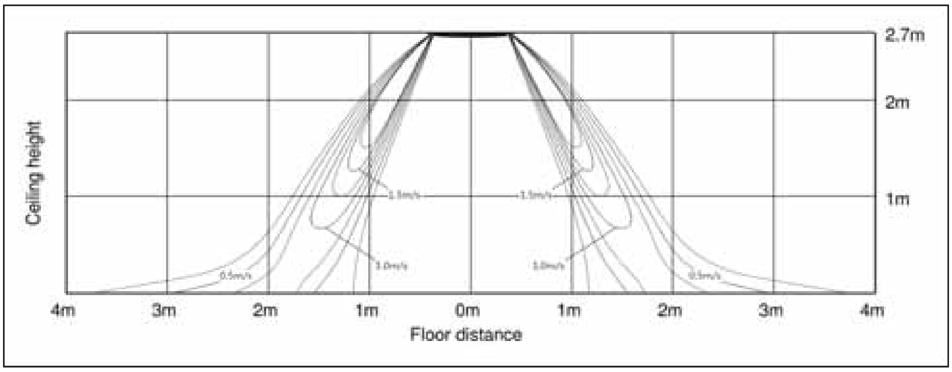
7 Temperature and air flow distribution

360 Cassette

AM090KN4DEH/EU

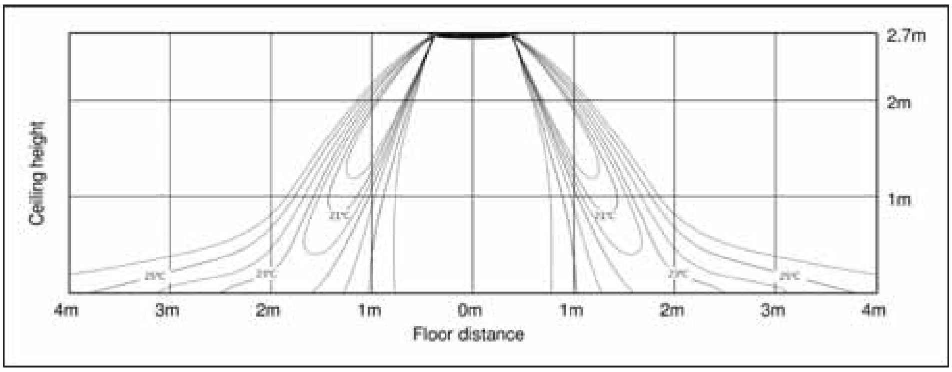
(1) Cooling air velocity distribution

Discharge angle : 60º



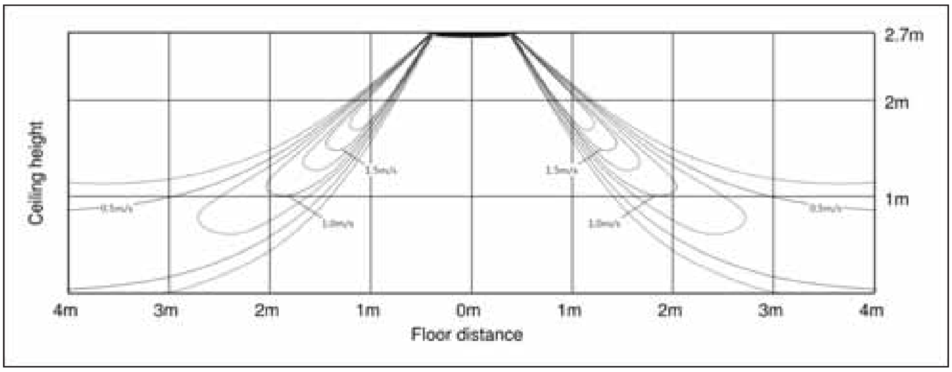
(2) Cooling temperature distribution

Discharge angle : 60º



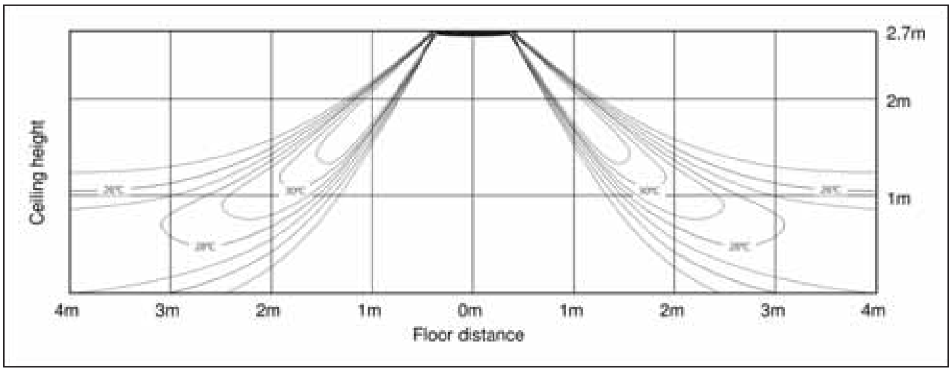
(3) Heating air velocity distribution

Discharge angle : 60º



(4) Heating temperature distribution

Discharge angle : 60º



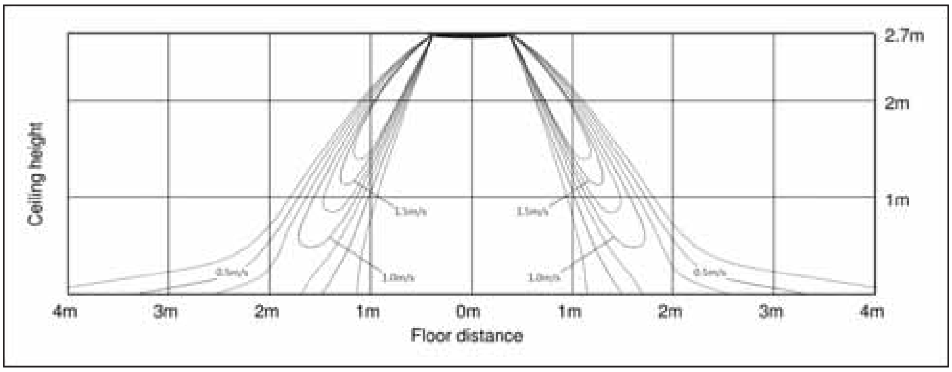
7 Temperature and air flow distribution

360 Cassette

AM112KN4DEH/EU

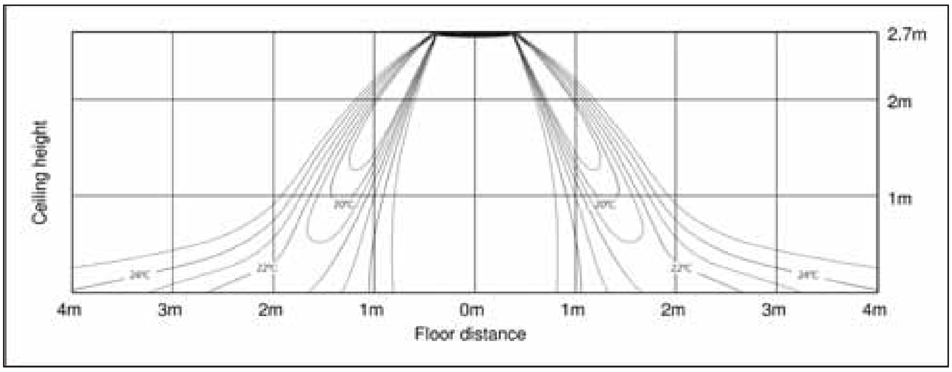
(1) Cooling air velocity distribution

Discharge angle : 60º



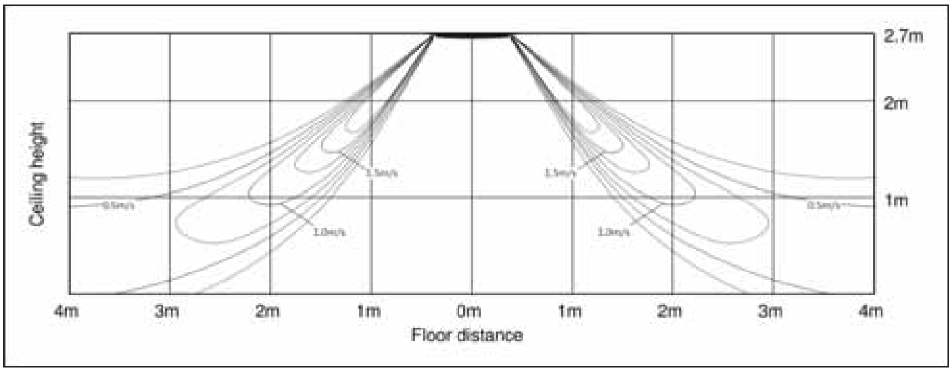
(2) Cooling temperature distribution

Discharge angle : 60º



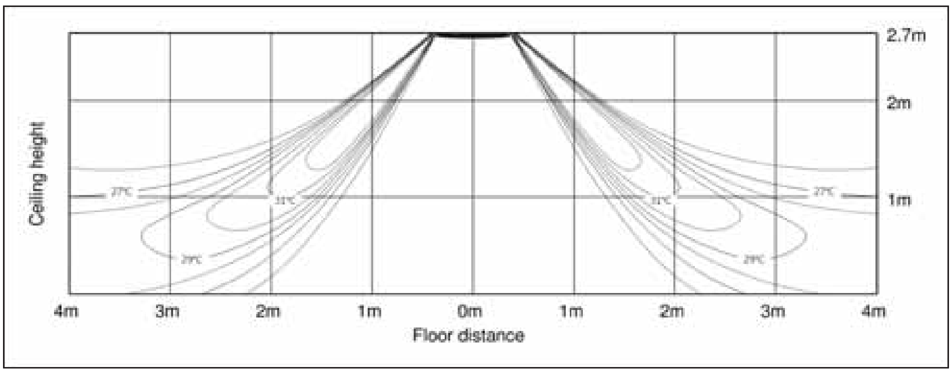
(3) Heating air velocity distribution

Discharge angle : 60º



(4) Heating temperature distribution

Discharge angle : 60º



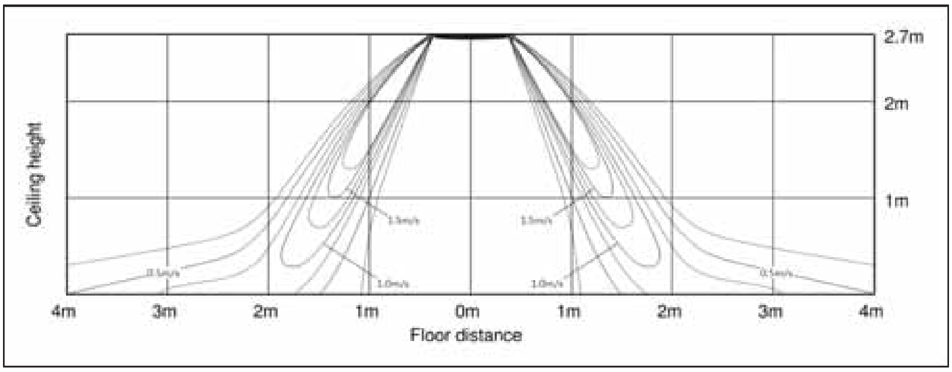
7 Temperature and air flow distribution

360 Cassette

AM128KN4DEH/EU

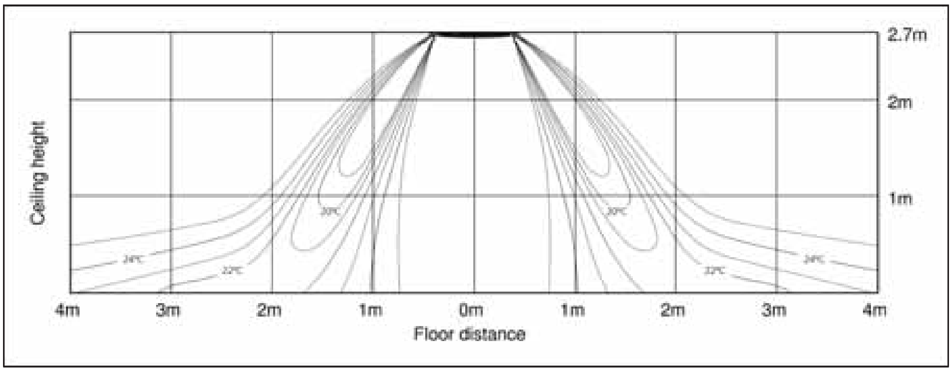
(1) Cooling air velocity distribution

Discharge angle : 60º



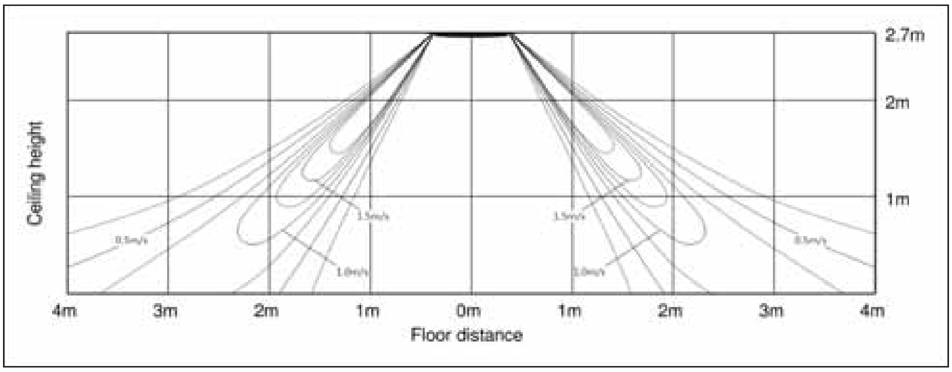
(2) Cooling temperature distribution

Discharge angle : 60º



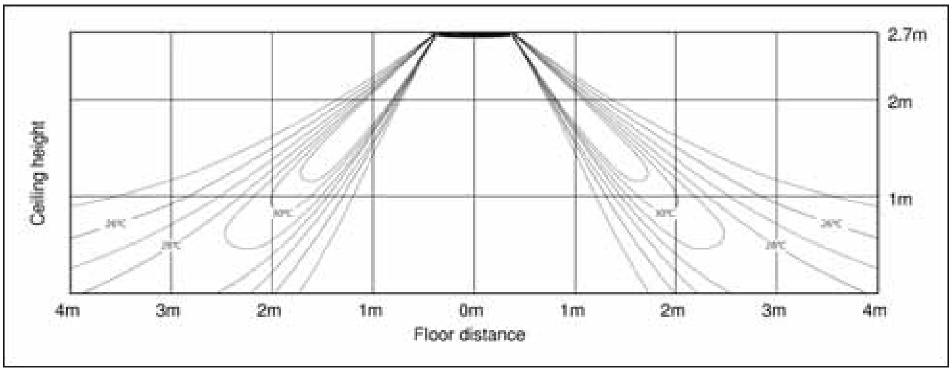
(3) Heating air velocity distribution

Discharge angle : 60º



(4) Heating temperature distribution

Discharge angle : 60º

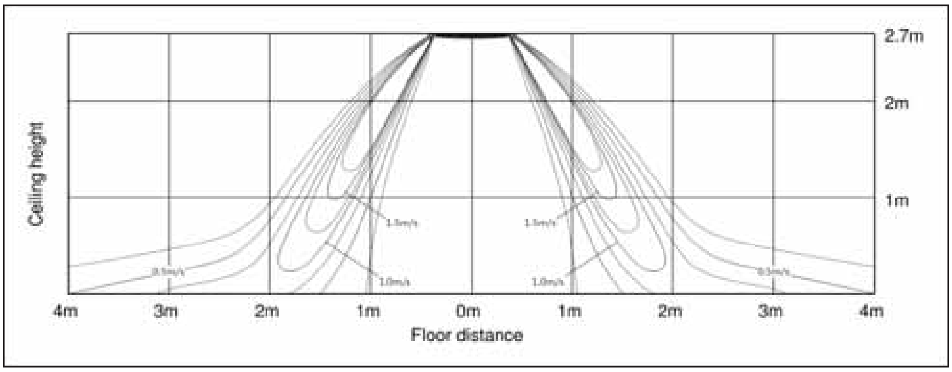


360 Cassette

AM140KN4DEH/EU

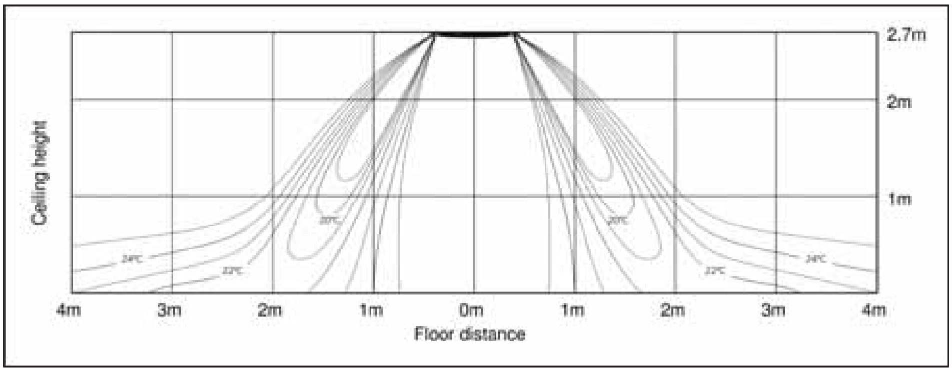
(1) Cooling air velocity distribution

Discharge angle : 60º



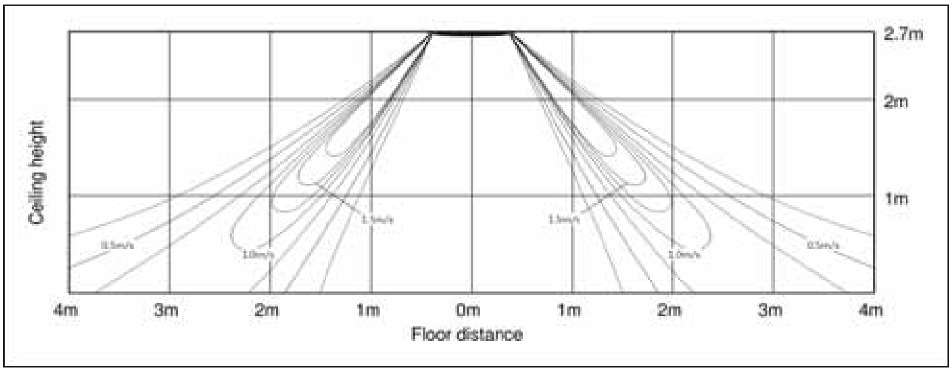
(2) Cooling temperature distribution

Discharge angle : 60º



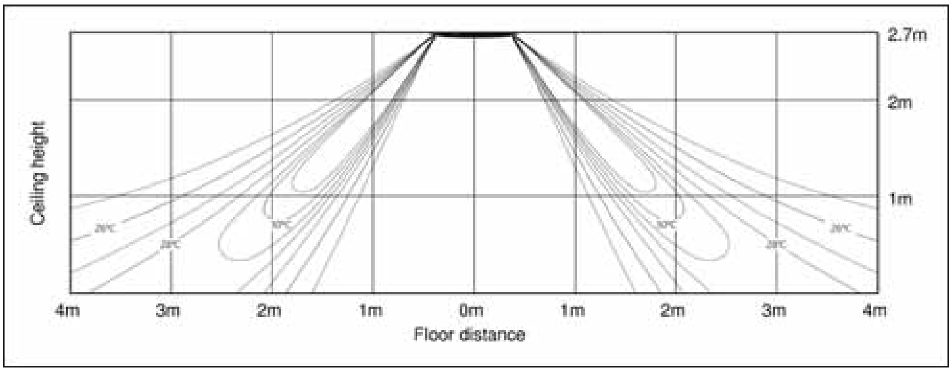
(3) Heating air velocity distribution

Discharge angle : 60º



(4) Heating temperature distribution

Discharge angle : 60º



Duct S

1. Specification

Duct S

Model CODE				AM036HNMPKH/EU	AM045HNMPKH/EU	AM056HNMPKH/EU
Power Supply			Φ, #, 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 (ISO/SASO)	kW	3.6	4.5	5.6
			Btu/h	12,300	15,400	19,100
		Heating	kW	4.0	5.0	6.3
			Btu/h	13,600	17,100	21,500
Power	Power Input (Nominal)	Cooling	W	50	60	70
		Heating		50	60	70
	Current Input (Nominal)	Cooling	A	0.5	0.6	0.7
		Heating		0.5	0.6	0.7
	Current	MCA	A	1.04	1.26	1.26
		MFA/MOP		15	15	15
Heat exchanger	Type		-	FME	FME	FME
	Material	Fin	-	Al	Al	Al
		Tube	-	Al	Al	Al
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion
Fan	Type		-	Sirocco Fan	Sirocco Fan	Sirocco Fan
	Quantity		EA	2	2	2
	Air Flow Rate	H/M/L (UL)	m³/min	12.0 / 9.5 / 8.0	14.0 / 11.0 / 8.0	16.0 / 13.5 / 11.0
			l/s	200 / 158 / 133	233 / 183 / 133	267 / 225 / 183
	External Pressure	Min / Std / Max	mmAq	0 / 2.5 / 15	0 / 3 / 15	0 / 3 / 15
			Pa	0 / 24.5 / 147.2	0 / 29.4 / 147.2	0 / 29.4 / 147.2
Fan Motor	Model		-	BLDC motor(feedback)	BLDC motor(feedback)	BLDC motor(feedback)
	Output x n		W	153 x 1	153 x 1	153 x 1
Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection	Flare connection
			Φ,mm	6.35	6.35	6.35
			Φ, inch	1/4"	1/4"	1/4"
	Gas Pipe		Type	Flare connection	Flare connection	Flare connection
			Φ,mm	12.7	12.7	12.7
			Φ, inch	1/2"	1/2"	1/2"
	Heat insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
	Drain Pipe		Φ,mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
Wiring connections	For power supply	Minimum	mm2	1.5	1.5	1.5
	For connection with indoor	Minimum	mm2	0.75	0.75	0.75
		Remark	-	F1,F2	F1,F2	F1,F2
Refrigerant	Type		-	R410A	R410A	R410A
	Control Method		-	EEV Included	EEV Included	EEV Included
Sound	Sound Pressure	High / Mid / Low	dB(A)	29/26/23	31/28/24	32/29/25
	Sound Power	Cooling (Nominal)		40	44	45
Dimensions	Net Weight		kg	25.5	25.5	25.5
	Shipping Weight		kg	30	30	30
	Net Dimensions (W×H×D)		mm	850 x 250 x 700	850 x 250 x 700	850 x 250 x 700
	Shipping Dimensions (W×H×D)		mm	1064 x 320 x 784	1064 x 320 x 784	1064 x 320 x 784
Air filter	Type		-	Removable / Washable / Mildew proof	Removable / Washable / Mildew proof	Removable / Washable / Mildew proof
Additional Accessories	Drain pump	Drain pump	Model	MDP-G075SQ(built-in) MDP-G075SP(external)	MDP-G075SQ(built-in) MDP-G075SP(external)	MDP-G075SQ(built-in) MDP-G075SP(external)
		Max. lifting Height	mm	750	750	750

NOTE

- Mode : HP(Heat Pump), HR(Heat Recovery)
- Nominal Cooling : Indoor temperature 27ºCDB / 19ºCWB, Outdoor temperature 35ºCDB/24ºCWB, Refrigerant pipe length 7.5m, Level difference 0m.
- Nominal Heating : Indoor temperature 20ºCDB / 15ºCWB, Outdoor temperature 7ºCDB / 6ºCWB, Refrigerant pipe length 7.5m, Level difference 0m.
- Sound pressure 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.
- Select wire size based on the value of MCA

1. Specification

Duct S

Model CODE				AM071HNMPKH/EU	AM090HNMPKH/EU	AM112HNMPKH/EU
Power Supply			Φ, #, 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 (ISO/SASO)	kW	7.1	9	11.2
			Btu/h	24,200	30,700	38,200
		Heating	kW	8.0	10.0	12.5
			Btu/h	27,300	34,100	42,700
Power	Power Input (Nominal)	Cooling	W	120	145	165
		Heating		120	145	165
	Current Input (Nominal)	Cooling	A	1.0	1.2	1.4
		Heating		1.0	1.2	1.4
	Current	MCA	A	1.52	2.03	2.51
		MFA/MOP		15	15	15
Heat exchanger	Type		-	FME	FME	FME
	Material	Fin	-	Al	Al	Al
		Tube	-	Al	Al	Al
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion
Fan	Type		-	Sirocco Fan	Sirocco Fan	Sirocco Fan
	Quantity		EA	2	3	3
	Air Flow Rate	H/M/L (UL)	m³/min	22.0 / 19.0 / 16.0	29.0 / 25.0 / 22.0	35.0 / 29.0 / 22.0
			l/s	367 / 317 / 267	483 / 417 / 367	583 / 483 / 367
	External Pressure	Min / Std / Max	mmAq	0 / 3 / 15	0 / 4 / 15	0 / 5.2 / 15
			Pa	0 / 29.4 / 147.2	0 / 39.2 / 147.2	0 / 51.0 / 147.2
Fan Motor	Model		-	BLDC motor(feedback)	BLDC motor(feedback)	BLDC motor(feedback)
	Output x n		W	153 x 1	153 x 1	244 x 1
Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection	Flare connection
			Φ,mm	9.52	9.52	9.52
			Φ, inch	3/8"	3/8"	3/8"
	Gas Pipe		Type	Flare connection	Flare connection	Flare connection
			Φ,mm	15.88	15.88	15.88
			Φ, inch	5/8"	5/8"	5/8"
	Heat insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
	Drain Pipe		Φ,mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
Wiring connections	For power supply	Minimum	mm2	1.5	1.5	1.5
	For connection with indoor	Minimum	mm2	0.75	0.75	0.75
		Remark	-	F1,F2	F1,F2	F1,F2
Refrigerant	Type		-	R410A	R410A	R410A
	Control Method		-	EEV Included	EEV Included	EEV Included
Sound	Sound Pressure	High / Mid / Low	dB(A)	37/33/29	38/35/32	38/35/32
	Sound Power	Cooling (Nominal)		47	44	45
Dimensions	Net Weight		kg	25.5	33	38
	Shipping Weight		kg	30	38.5	43.5
	Net Dimensions (W×H×D)		mm	850 x 250 x 700	1200 x 250 x 700	1300 x 300 x 700
	Shipping Dimensions (W×H×D)		mm	1064 x 320 x 784	1429 x 320 x 779	1529 x 370 x 779
Air filter	Type		-	Removable / Washable / Mildew proof	Removable / Washable / Mildew proof	Removable / Washable / Mildew proof
Additional Accessories	Drain pump	Drain pump	Model	MDP-G075SQ(built-in) MDP-G075SP(external)	MDP-G075SQ(built-in) MDP-G075SP(external)	MDP-G075SQ(built-in) MDP-G075SP(external)
		Max. lifting Height	mm	750	750	750

NOTE

- 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 pressure 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.
- Select wire size based on the value of MCA

1. Specification

Duct S

Model CODE				AM128HNMPKH/EU	AM140HNMPKH/EU	AM112HNHPKH/EU
Power Supply			Φ, #, 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 (ISO/SASO)	kW	12.8	14	11.2
			Btu/h	43,700	47,800	38,200
		Heating	kW	13.8	16.0	12.5
			Btu/h	47,100	54,600	42,700
Power	Power Input (Nominal)	Cooling	W	175	215	205
		Heating		175	215	205
	Current Input (Nominal)	Cooling	A	1.5	1.7	205.0
		Heating		1.5	1.7	1.2
	Current	MCA	A	2.51	2.51	2.92
		MFA/MOP		15	15	15
Heat exchanger	Type		-	FME	FME	FME
	Material	Fin	-	Al	Al	Al
		Tube	-	Al	Al	Al
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion
Fan	Type		-	Sirocco Fan	Sirocco Fan	Sirocco Fan
	Quantity		EA	3	3	3
	Air Flow Rate	H/M/L (UL)	m³/min	38.0 / 32.0 / 25.0	42.0 / 34.0 / 25.0	35.0 / 29.0 / 22.0
			l/s	633 / 533 / 417	700 / 567 / 417	583 / 483 / 367
	External Pressure	Min / Std / Max	mmAq	0 / 5.2 / 15	0 / 5.2 / 15	3 / 6.2 / 20
			Pa	0 / 51.0 / 147.2	0 / 51.0 / 147.2	0 / 60.8 / 196.2
Fan Motor	Model		-	BLDC motor(feedback)	BLDC motor(feedback)	BLDC motor(feedback)
	Output x n		W	244 x 1	244 x 1	350 x 1
Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection	Flare connection
			Φ,mm	9.52	9.52	9.52
			Φ, inch	3/8"	3/8"	3/8"
	Gas Pipe		Type	Flare connection	Flare connection	Flare connection
			Φ,mm	15.88	15.88	15.88
			Φ, inch	5/8"	5/8"	5/8"
	Heat insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
	Drain Pipe		Φ,mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
Wiring connections	For power supply	Minimum	mm2	1.5	1.5	1.5
	For connection with indoor	Minimum	mm2	0.75	0.75	0.75
		Remark	-	F1,F2	F1,F2	F1,F2
Refrigerant	Type		-	R410A	R410A	R410A
	Control Method		-	EEV Included	EEV Included	EEV Included
Sound	Sound Pressure	High / Mid / Low	dB(A)	39/36/33	40/37/33	38/35/32
	Sound Power	Cooling (Nominal)		46	47	46
Dimensions	Net Weight		kg	38	38	46.5
	Shipping Weight		kg	43.5	43.5	52.5
	Net Dimensions (W×H×D)		mm	1300 x 300 x 700	1300 x 300 x 700	1300 x 300 x 700
	Shipping Dimensions (W×H×D)		mm	1529 x 370 x 779	1529 x 370 x 779	1529 x 370 x 779
Air filter	Type		-	Removable / Washable / Mildew proof	Removable / Washable / Mildew proof	Removable / Washable / Mildew proof
Additional Accessories	Drain pump	Drain pump	Model	MDP-G075SQ(built-in) MDP-G075SP(external)	MDP-G075SQ(built-in) MDP-G075SP(external)	MDP-G075SQ(built-in) MDP-G075SP(external)
		Max. lifting Height	mm	750	750	750

NOTE

- Mode : HP(Heat Pump), HR(Heat Recovery)
- Nominal Cooling : Indoor temperature 27ºCDB / 19ºCWB, Outdoor temperature 35ºCDB/24ºCWB, Refrigerant pipe length 7.5m, Level difference 0m.
- Nominal Heating : Indoor temperature 20ºCDB / 15ºCWB, Outdoor temperature 7ºCDB / 6ºCWB, Refrigerant pipe length 7.5m, Level difference 0m.
- Sound pressure 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.
- Select wire size based on the value of MCA

1. Specification

Duct S

Model CODE				AM128HNHPKH/EU	AM140HNHPKH/EU
Power Supply			Φ, #, V, Hz	1,2,220~240,50	1,2,220~240,50
Mode			-	HP/HR	HP/HR
Performance	Capacity (Nominal)	Cooling (ISO/SASO)	kW	12.8	14
			Btu/h	43,700	47,800
		Heating	kW	13.8	16.0
			Btu/h	47,100	54,600
Power	Power Input (Nominal)	Cooling	W	230	260
		Heating		230	260
	Current Input (Nominal)	Cooling	A	1.4	1.5
		Heating		1.4	1.5
	Current	MCA	A	3.17	3.42
		MFA/MOP		15	15
Heat exchanger	Type		-	FME	FME
	Material	Fin	-	Al	Al
		Tube	-	Al	Al
	Fin Treatment		-	Anti-corrosion	Anti-corrosion
Fan	Type		-	Sirocco Fan	Sirocco Fan
	Quantity		EA	3	3
	Air Flow Rate	H/M/L (UL)	m³/min	38.0 / 32.0 / 25.0	42.0 / 34.0 / 25.0
			l/s	633 / 533 / 417	700 / 567 / 417
	External Pressure	Min / Std / Max	mmAq	3 / 6.2 / 20	3 / 6.2 / 20
			Pa	0 / 60.8 / 196.2	0 / 60.8 / 196.2
Fan Motor	Model		-	BLDC motor(feedback)	BLDC motor(feedback)
	Output x n		W	350 x 1	350 x 1
Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection
			Φ,mm	9.52	9.52
			Φ, inch	3/8"	3/8"
	Gas Pipe		Type	Flare connection	Flare connection
			Φ,mm	15.88	15.88
			Φ, inch	5/8"	5/8"
	Heat insulation		-	Both liquid and gas pipes	Both liquid and gas pipes
	Drain Pipe		Φ,mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
Wiring connections	For power supply	Minimum	mm2	1.5	1.5
	For connection with indoor	Minimum	mm2	0.75	0.75
		Remark	-	F1,F2	F1,F2
Refrigerant	Type		-	R410A	R410A
	Control Method		-	EEV Included	EEV Included
Sound	Sound Pressure	High / Mid / Low	dB(A)	39/36/33	40/37/34
	Sound Power	Cooling (Nominal)		47	49
Dimensions	Net Weight		kg	46.5	46.5
	Shipping Weight		kg	52.5	52.5
	Net Dimensions (W×H×D)		mm	1300 x 300 x 700	1300 x 300 x 700
	Shipping Dimensions (W×H×D)		mm	1529 x 370 x 779	1529 x 370 x 779
Air filter	Type		-	Removable / Washable / Mildew proof	Removable / Washable / Mildew proof
Additional Accessories	Drain pump	Drain pump	Model	MDP-G075SQ(built-in) MDP-G075SP(external)	MDP-G075SQ(built-in) MDP-G075SP(external)
		Max. lifting Height	mm	750	750

NOTE

- 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 pressure 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.
- Select wire size based on the value of MCA

2. Summary Table

Performance Characteristics

Model Code	Fan Speed	Nominal Capacity			Airflow (CMM)	Sound Pressure (dBA)	Sound Power (dBA)	Static Pressure (Min/Std/Max) (Pa)
		Cooling (kW)	Sensible (Kw)	Heating (kW)				
AM036HNMPKH/EU	High	3.6	2.6	4.0	12.0	29	40	0 / 2.5 / 15
	Mid	2.5	2.3	3.6	9.5	26	-	
	Low	2.1	1.9	3.3	8.0	23	-	
AM045HNMPKH/EU	High	4.5	3.3	5.0	14.0	31	44	0 / 3 / 15
	Mid	3.0	2.8	4.4	11.0	28	-	
	Low	2.5	2.3	3.8	8.0	24	-	
AM056HNMPKH/EU	High	5.6	4.2	6.3	16.0	32	45	0 / 3 / 15
	Mid	3.8	3.3	5.8	13.5	29	-	
	Low	3.2	2.9	5.2	11.0	25	-	
AM071HNMPKH/EU	High	7.1	5.4	8.0	22.0	37	47	0 / 3 / 15
	Mid	4.9	4.3	7.4	19.0	33	-	
	Low	4.0	3.7	6.8	16.0	29	-	
AM090HNMPKH/EU	High	9.0	7.1	10.0	29.0	38	44	0 / 4 / 15
	Mid	6.1	5.4	9.3	25.0	35	-	
	Low	5.0	4.6	8.7	22.0	32	-	
AM112HNMPKH/EU	High	11.2	8.6	12.5	35.0	38	45	0 / 5.2 / 15
	Mid	7.4	6.5	11.4	29.0	35	-	
	Low	6.0	5.5	9.9	22.0	32	-	
AM128HNMPKH/EU	High	12.8	9.9	13.8	38.0	39	46	0 / 5.2 / 15
	Mid	8.5	7.5	12.7	32.0	36	-	
	Low	6.8	6.3	11.2	25.0	33	-	
AM140HNMPKH/EU	High	14.0	10.8	16.0	42.0	40	47	0 / 5.2 / 15
	Mid	9.1	7.9	14.4	34.0	37	-	
	Low	7.3	6.7	12.3	25.0	33	-	
AM112HNHPKH/EU	High	11.2	8.6	12.5	35.0	38	46	0 / 6.2 / 20
	Mid	7.4	6.5	11.4	29.0	35	-	
	Low	6.0	5.5	9.9	22.0	32	-	
AM128HNHPKH/EU	High	12.8	9.9	13.8	38.0	39	47	0 / 6.2 / 20
	Mid	8.5	7.5	12.7	32.0	36	-	
	Low	6.8	6.3	11.2	25.0	33	-	
AM140HNHPKH/EU	High	14.0	10.8	16.0	42.0	40	49	0 / 6.2 / 20
	Mid	9.1	7.9	14.4	34.0	37	-	
	Low	7.3	6.7	12.3	25.0	34	-	

Electrical Characteristics

Model Code	Power Supply (Ø, #, V, Hz)	Power Input (W)	Current Input (A)	MCA (A)	MFA (A)	FLA (A)
AM036HNMPKH/EU	1, 2, 220-240, 50	50.0	0.50	1.04	15	0.83
AM045HNMPKH/EU	1, 2, 220-240, 50	60.0	0.60	1.26	15	1.01
AM056HNMPKH/EU	1, 2, 220-240, 50	70.0	0.70	1.26	15	1.01
AM071HNMPKH/EU	1, 2, 220-240, 50	120.0	1.00	1.52	15	1.21
AM090HNMPKH/EU	1, 2, 220-240, 50	145.0	1.20	2.03	15	1.63
AM112HNMPKH/EU	1, 2, 220-240, 50	165.0	1.40	2.51	15	2.01
AM128HNMPKH/EU	1, 2, 220-240, 50	175.0	1.50	2.51	15	2.01
AM140HNMPKH/EU	1, 2, 220-240, 50	215.0	1.70	2.51	15	2.01
AM112HNHPKH/EU	1, 2, 220-240, 50	205.0	1.20	2.92	15	2.34
AM128HNHPKH/EU	1, 2, 220-240, 50	230.0	1.40	3.17	15	2.54
AM140HNHPKH/EU	1, 2, 220-240, 50	260.0	1.50	3.42	15	2.73

NOTE

- MCA : Minimum circuit amperes
- FLA : Full load amperes.

3. Capacity Table

Duct S (AM***HNMPKH/EU)

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
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
036	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
045	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
056	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

3. Capacity Table

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
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
071	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
090	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
112	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
128	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

3. Capacity Table

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
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
128	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
140	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

Capacity table may be subject to change without prior notice.

1) Capacity table comply with EN14511.
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

3. Capacity Table

Duct S (AM***HNMPKH/EU)

Heating

TC: Total Capacity

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	-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
045	-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
	15	14	5.80	5.40	5.00	4.60	4.20
056	-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
	15	14	7.30	6.80	6.30	5.80	5.30

3. Capacity Table

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	4.90	4.90	4.80	4.70	4.70
	-17	-18	5.10	5.00	4.90	4.80	4.80
	-15	-16	5.30	5.20	5.10	4.90	4.80
	-12	-13	5.60	5.50	5.40	5.30	5.20
	-10	-11	5.90	5.80	5.70	5.60	5.60
	-7	-8	6.20	6.10	6.00	5.90	5.80
	-5	-6	6.50	6.50	6.40	6.20	6.00
	-3	-4	6.90	6.80	6.70	6.40	6.20
	0	-1	7.20	7.10	7.00	6.70	6.40
	3	2	7.60	7.50	7.30	7.10	6.80
	5	4	7.90	7.80	7.70	7.20	6.80
	7	6	8.20	8.10	8.00	7.40	6.80
	9	8	8.50	8.20	8.00	7.40	6.80
	11	10	8.70	8.40	8.00	7.40	6.80
	13	12	9.00	8.50	8.00	7.40	6.80
	15	14	9.20	8.60	8.00	7.40	6.80
090	-20	-21	6.00	6.00	5.90	5.80	5.80
	-17	-18	6.30	6.30	6.10	6.00	5.90
	-15	-16	6.70	6.50	6.30	6.10	6.00
	-12	-13	7.00	6.90	6.70	6.60	6.50
	-10	-11	7.30	7.20	7.10	7.00	7.00
	-7	-8	7.80	7.70	7.60	7.40	7.20
	-5	-6	8.20	8.10	8.00	7.70	7.50
	-3	-4	8.60	8.50	8.40	8.10	7.70
	0	-1	9.00	8.90	8.80	8.40	8.00
	3	2	9.40	9.30	9.20	8.80	8.40
	5	4	9.90	9.70	9.60	9.00	8.40
	7	6	10.30	10.10	10.00	9.20	8.40
	9	8	10.60	10.30	10.00	9.20	8.40
	11	10	10.90	10.50	10.00	9.20	8.40
	13	12	11.20	10.60	10.00	9.20	8.40
	15	14	11.60	10.80	10.00	9.20	8.40
112	-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	8.90	8.80	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
	15	14	14.40	13.50	12.50	11.50	10.60
128	-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

3. Capacity Table

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
128	-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
140	-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

Capacity table may be subject to change without prior notice.

1) Capacity table comply with EN14511.
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

3. Capacity Table

Duct S (AM***HNHPKH/EU)

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
112	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
128	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
140	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

Capacity table may be subject to change without prior notice.

1) Capacity table comply with EN14511.
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

3. Capacity Table

Duct S (AM***HNHPKH/EU)

Heating

TC: Total Capacity

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
112	-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	8.90	8.80	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
	15	14	14.40	13.50	12.50	11.50	10.60
128	-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
140	-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

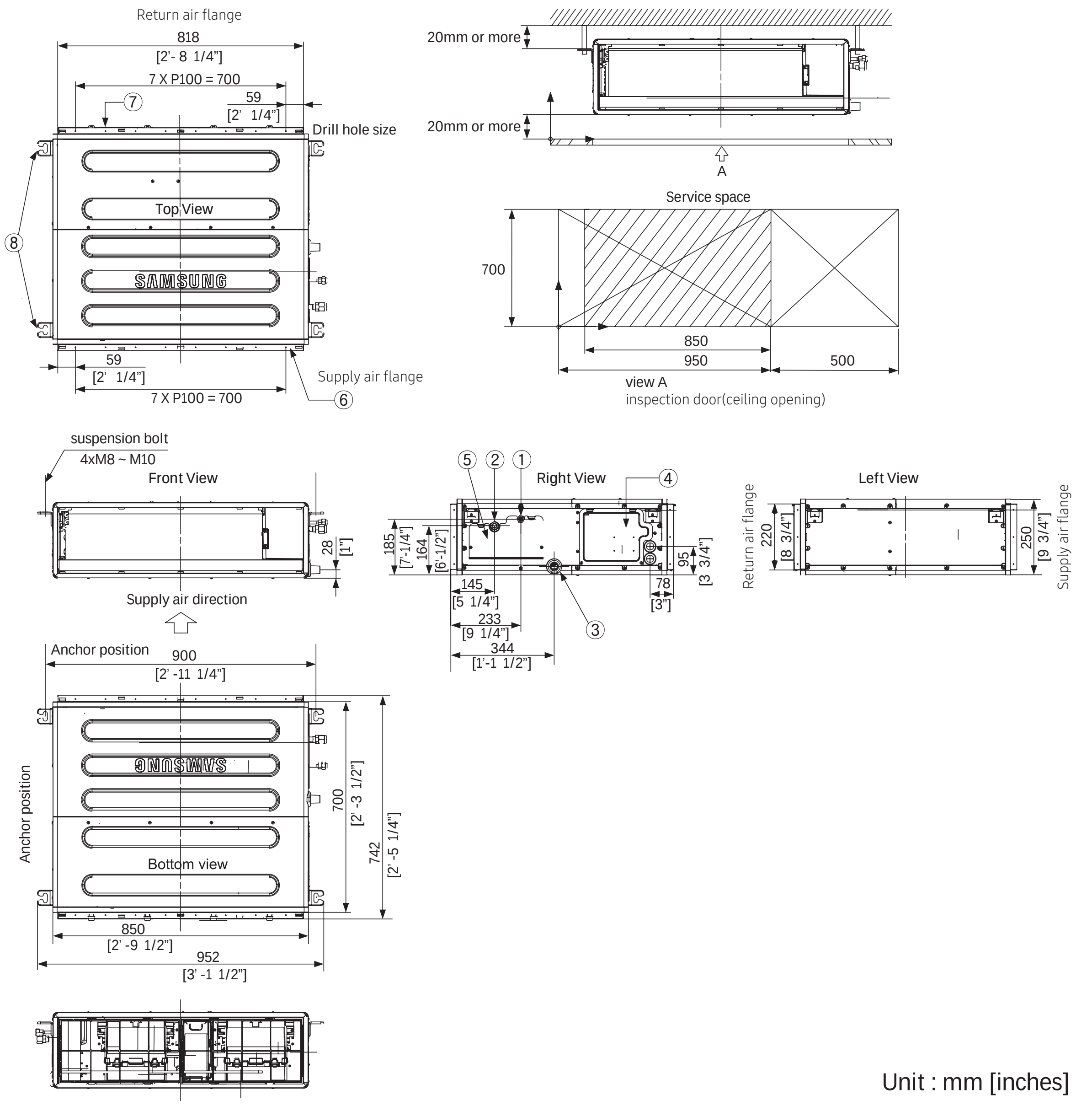
Capacity table may be subject to change without prior notice.

1) Capacity table comply with EN14511.
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. Dimensional Drawing

Duct S

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

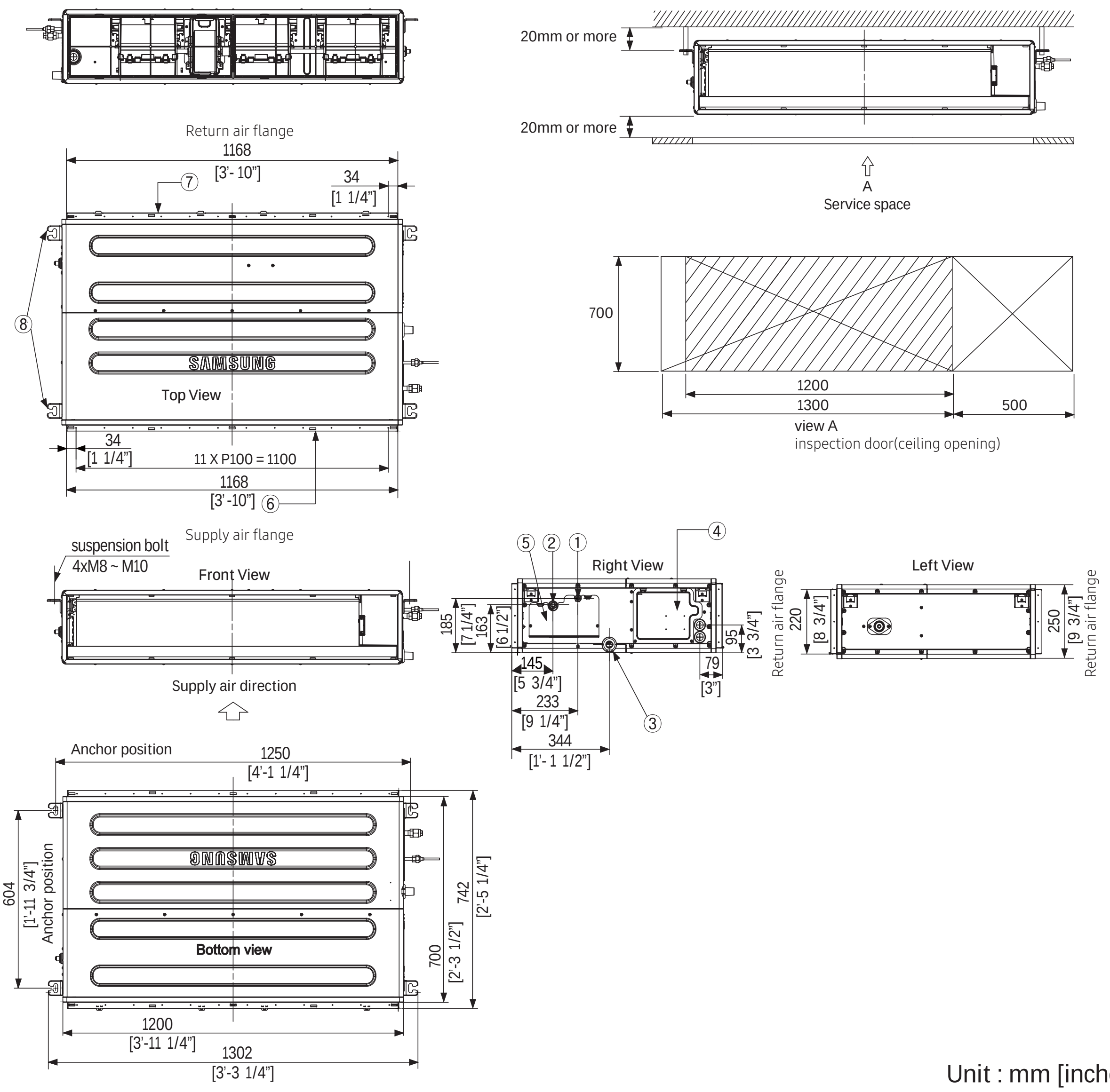


No.	Name	Description	
		~ 5.6 kW	7.1 kW
①	Refrigerant liquid pipe	Ø6.35 [1/4"] Flare	Ø9.52 [3/8"] Flare
②	Refrigerant gas pipe	Ø12.7 [1/2"] Flare	Ø15.88 [5/8"] Flare
③	Condensate drain	VP25 (OD 32, ID 25)	
④	Power & Comm. wiring conduits	-	
⑤	Refrigerant pipe conduits	-	
⑥	Supply air flange	-	
⑦	Return air flange	-	
⑧	Hook	-	

4. Dimensional Drawing

Duct S

AM090HNMPKH/EU



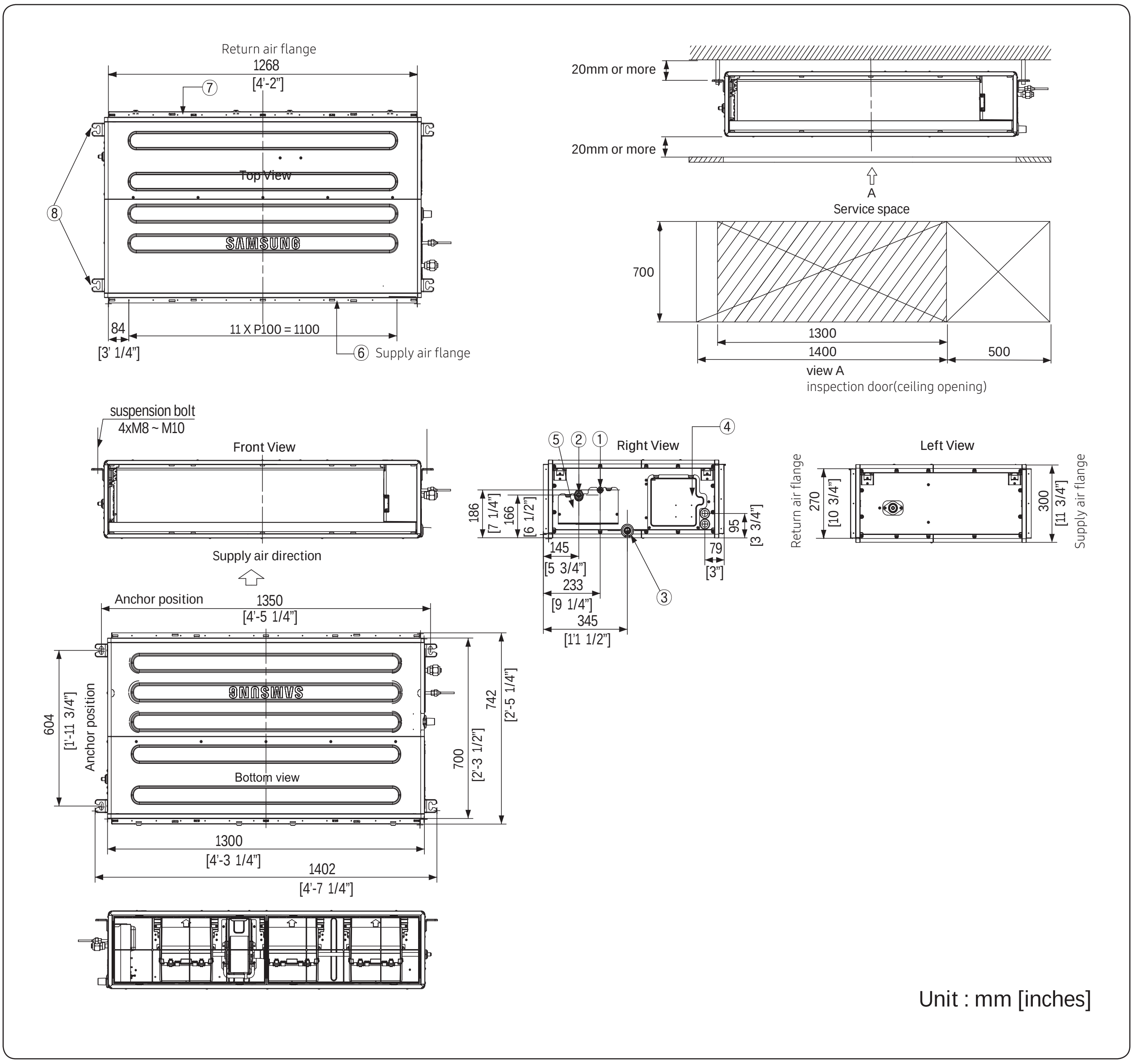
Unit : mm [inches]

No.	Name	Description
①	Refrigerant liquid pipe	Ø9.52 [3/8"] Flare connection
②	Refrigerant gas pipe	Ø15.88 [5/8"] Flare connection
③	Condensate drain	VP25 (OD 32, ID 25)
④	Power & Comm. wiring conduits	-
⑤	Refrigerant pipe conduits	-
⑥	Supply air flange	-
⑦	Return air flange	-
⑧	Hook	-

4. Dimensional Drawing

Duct S

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

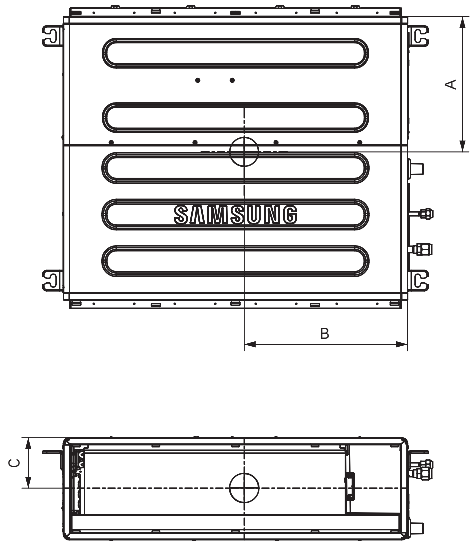


No.	Name	Description
①	Refrigerant liquid pipe	Ø9.52 [3/8"] Flare connection
②	Refrigerant gas pipe	Ø15.88 [5/8"] Flare connection
③	Condensate drain	VP25 (OD 32, ID 25)
④	Power & Comm. wiring conduits	-
⑤	Refrigerant pipe conduits	-
⑥	Supply air flange	-
⑦	Return air flange	-
⑧	Hook	-

5. Center of Gravity

Duct S

Unit : mm [inch]

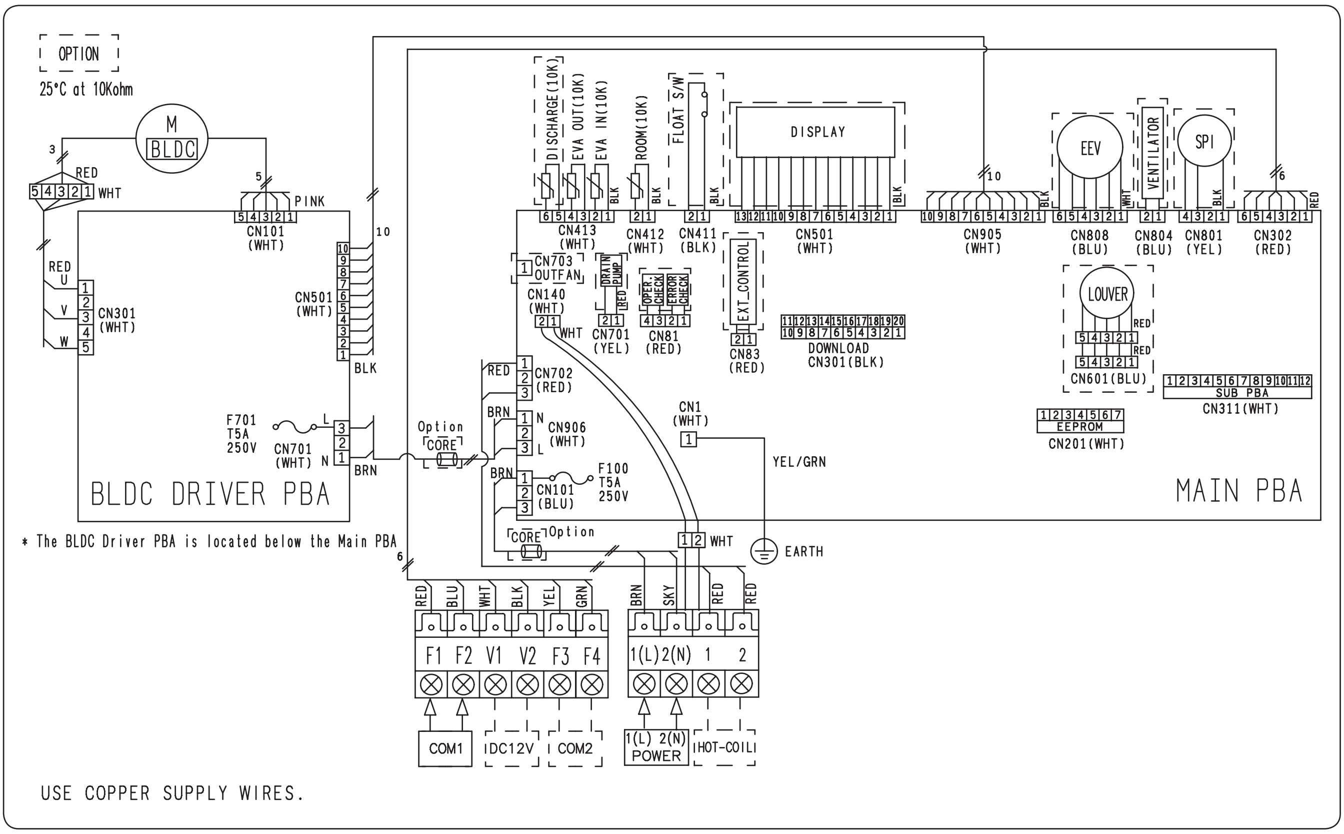


Model	A	B	C
3.6kW / 4.5kW / 5.6kW / 7.1kW	334	403	125
9.0kW	266	564	125
11.2kW / 12.8kW / 14.0kW	266	650	150

6. Electrical Wiring Diagram

Duct S

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



MAIN PBA	Printed Circuit board(MAIN)	EEV	electronic expansion valve	DISCHARGE(10K)	Thermistor DISCHARGE(10K)
BLDC DRIVER PBA	Printed Circuit board(BLDC DRIVER)	SPI		EVA-OUT(10K)	Thermistor EVA OUT(10K)
EMI PBA	Printed Circuit board(emi)	ROOM(10K)	Thermistor ROOM OUT(10K)	EVA-IN(10K)	Thermistor EVA IN(10K)

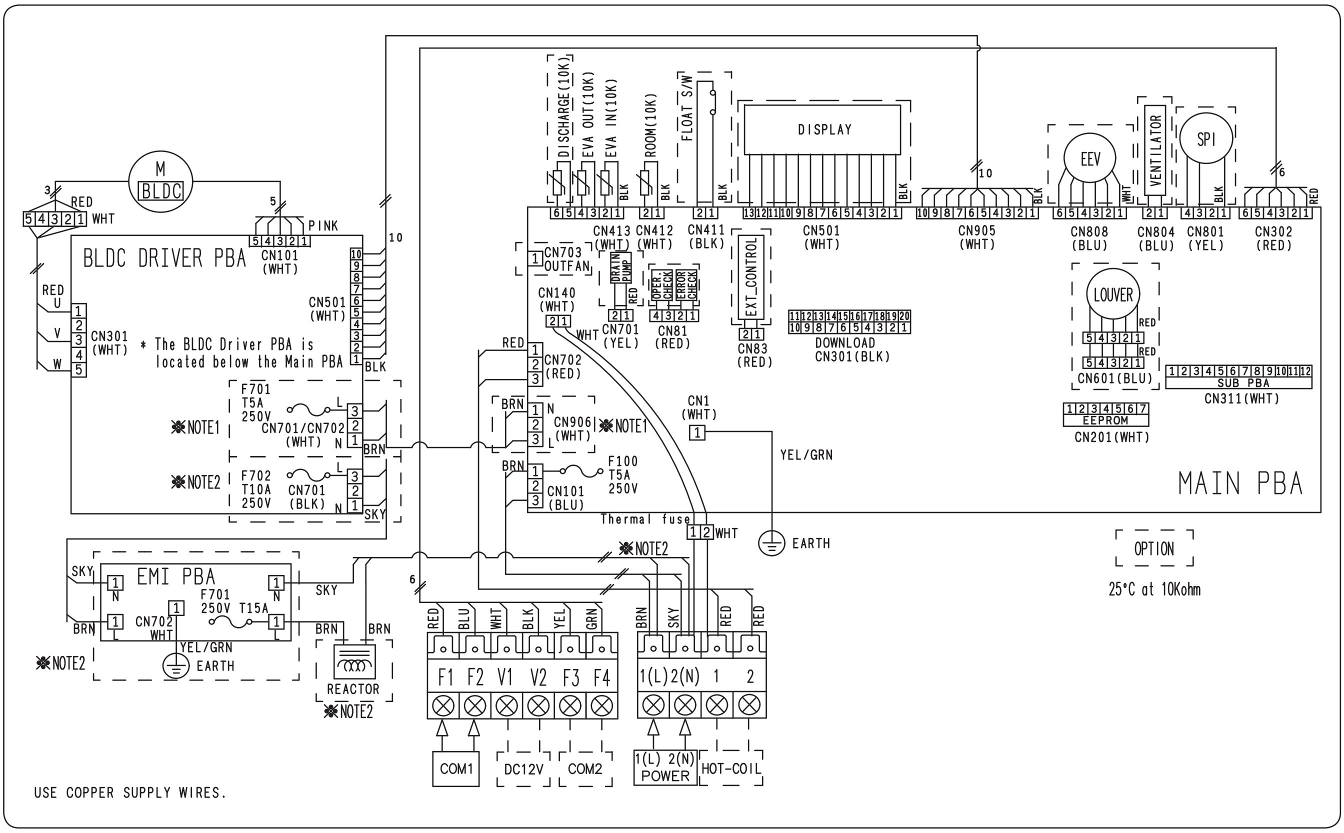
NOTE

- This wiring diagram applies only to the Indoor unit.
- Symbols show as follow :
  blk: black, red: red, blu: blue, wht: white, yel: yellow, brn: brown, sky: sky blue, grn: green
- For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remote controller transmission F3-F4.
- ⏚ Protective earth(SCREW)

6. Electrical Wiring Diagram

Duct S

AM112HNHPKH/EU, AM128HNHPKH/EU, AM140HNHPKH/EU



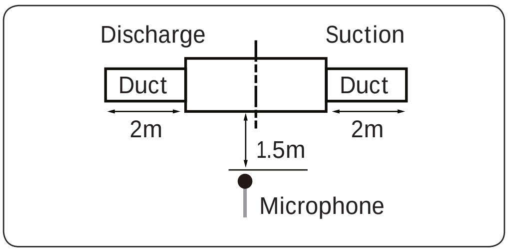
MAIN PBA	Printed Circuit board(MAIN)	EEV	electronic expansion valve	DISCHARGE(10K)	Thermistor DISCHARGE(10K)
BLDC DRIVER PBA	Printed Circuit board(BLDC DRIVER)	SPI		EVA-OUT(10K)	Thermistor EVA OUT(10K)
EMI PBA	Printed Circuit board(emi)	ROOM(10K)	Thermistor ROOM OUT(10K)	EVA-IN(10K)	Thermistor EVA IN(10K)

NOTE

- This wiring diagram applies only to the Indoor unit.
- Symbols show as follow :
  blk: black, red: red, blu: blue, wht: white, yel: yellow, brn: brown, sky: sky blue, grn: green
- For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remote controller transmission F3-F4.
- ⊜ Protective earth(SCREW)

7. Sound Data

Sound pressure level

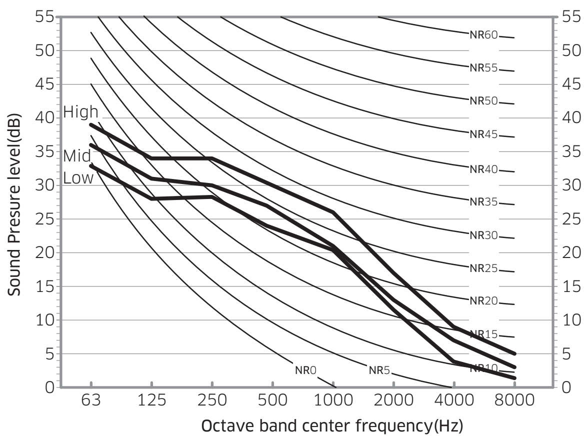


Unit: dB(A)

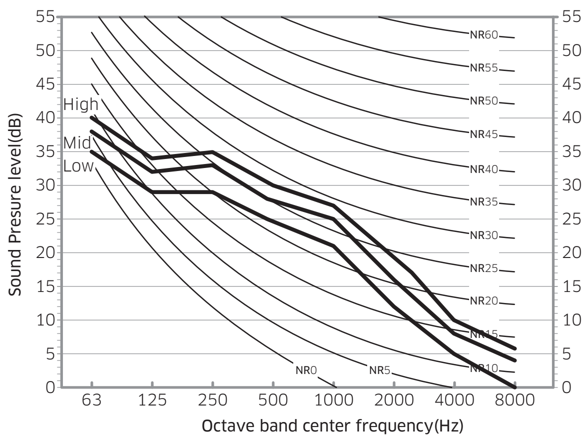
MODEL	HIGH	MID	LOW
AM036HNMPKH/EU	29	26	23
AM045HNMPKH/EU	31	28	24

NR Curve

1) AM036HNMPKH/EU



2) AM045HNMPKH/EU



Fan options		ESP	Sound Pressure (dBA)		
		mmAq	High	Mid	Low
Default	010054-1C5081-202424-331205	2.5	29	26	23
Option	010054-1C50E3-202424-331205	5.0	32	29	27
	010054-1C5459-202424-331205	7.5	33	30	28
	010054-1C54CD-202424-331205	10.0	34	31	29
	010054-1C5931-202424-331205	12.5	35	32	30
	010054-1C5983-202424-331205	15.0	35	33	31

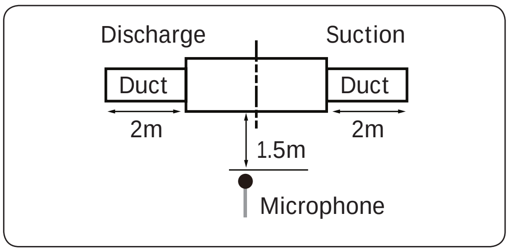
Fan options		ESP	Sound Pressure (dBA)		
		mmAq	High	Mid	Low
Default	010054-1C50D1-202D2D-331204	3.0	31	28	24
Option	010054-1C5453-202D2D-331204	6.0	33	31	28
	010054-1C5453-202D2D-331205	9.0	34	32	29
	010054-1C5453-202D2D-331206	12.0	35	33	30
	010054-1C5453-202D2D-331207	15.0	36	34	31

NOTE

- Specifications may be subject to change without prior notice.
  - Sound pressure level is obtained in an anechoic room.
  - Sound pressure level is a relative value, depending on the distance and acoustic environment.
  - Sound pressure level may differ depending on operation condition.
  - dBA = A-weighted sound pressure level.
  - Reference acoustic pressure 0 dB = 20μPa

7. Sound Data

Sound pressure level

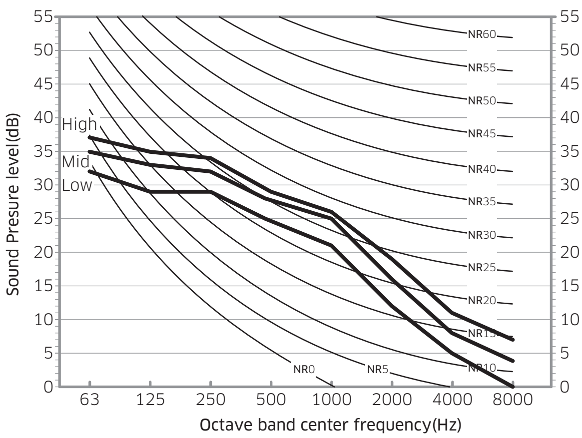


Unit: dB(A)

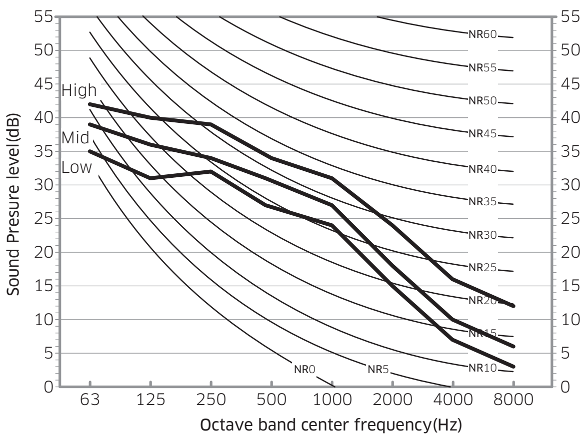
MODEL	HIGH	MID	LOW
AM056HNMPKH/EU	32	29	25
AM071HNMPKH/EU	37	33	29

NR Curve

3) AM056HNMPKH/EU



4) AM071HNMPKH/EU



Fan options		ESP	Sound Pressure (dBA)		
		mmAq	High	Mid	Low
Default	010054-1C50F1-203838-331203	3.0	32	29	25
Option	010054-1C5447-203838-331203	6.0	34	32	30
	010054-1C54AB-203838-331203	9.0	35	33	31
	010054-1C581F-203838-331203	12.0	36	34	32
	010054-1C5973-203838-331203	15.0	39	37	34

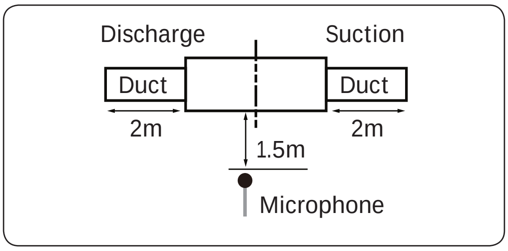
Fan options		ESP	Sound Pressure (dBA)		
		mmAq	High	Mid	Low
Default	010054-1C548D-204747-331201	3.0	37	33	29
Option	010054-1C55E1-204747-331201	6.0	38	35	31
	010054-1C5935-204747-331201	9.0	40	37	33
	010054-1C5989-204747-331201	12.0	41	38	34
	010054-1C59DF-204747-331201	15.0	43	41	35

NOTE

- Specifications may be subject to change without prior notice.
  - Sound pressure level is obtained in an anechoic room.
  - Sound pressure level is a relative value, depending on the distance and acoustic environment.
  - Sound pressure level may differ depending on operation condition.
  - dBA = A-weighted sound pressure level.
  - Reference acoustic pressure 0 dB = 20µPa

7. Sound Data

Sound pressure level

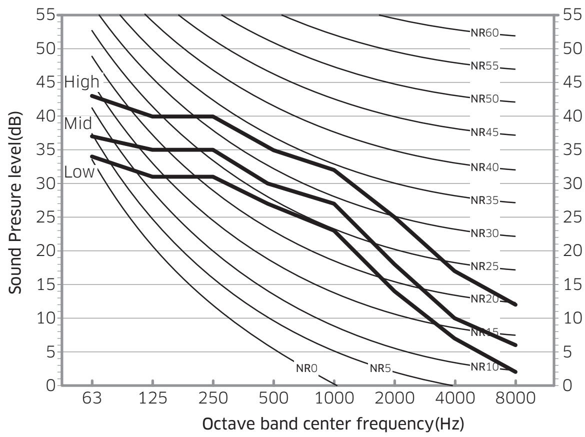


Unit: dB(A)

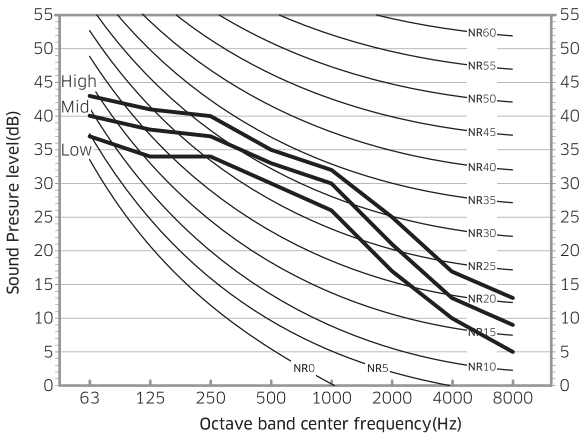
MODEL	HIGH	MID	LOW
AM090HNMPKH/EU	38	35	32
AM112HNMPKH/EU	38	35	32

NR Curve

1) AM090HNMPKH/EU



2) AM112HNMPKH/EU



Fan options		ESP	Sound Pressure (dBA)		
		mmAq	High	Mid	Low
Default	010054-1C546D-205A5A-331212	4.0	38	35	32
Option	010054-1C55E3-205A5A-331212	8.0	40	37	35
	010054-1C5969-205A5A-331212	12.0	42	40	38
	010054-1C59CD-205A5A-331212	15.0	45	43	40

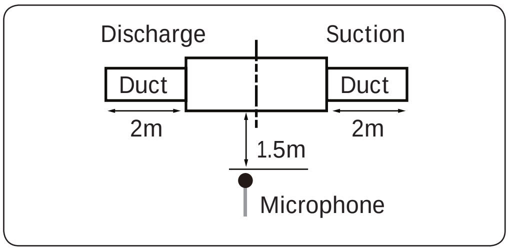
Fan options		ESP	Sound Pressure (dBA)		
		mmAq	High	Mid	Low
Default	010054-1C5412-207070-331223	5.2	38	35	32
Option	010054-1C5466-207070-331223	8.0	40	37	33
	010054-1C54EA-207070-331223	12.0	43	42	41
	010054-1C583E-207070-331223	15.0	46	45	44

NOTE

- Specifications may be subject to change without prior notice.
  - Sound pressure level is obtained in an anechoic room.
  - Sound pressure level is a relative value, depending on the distance and acoustic environment.
  - Sound pressure level may differ depending on operation condition.
  - dBA = A-weighted sound pressure level.
  - Reference acoustic pressure 0 dB = 20μPa

7. Sound Data

Sound pressure level

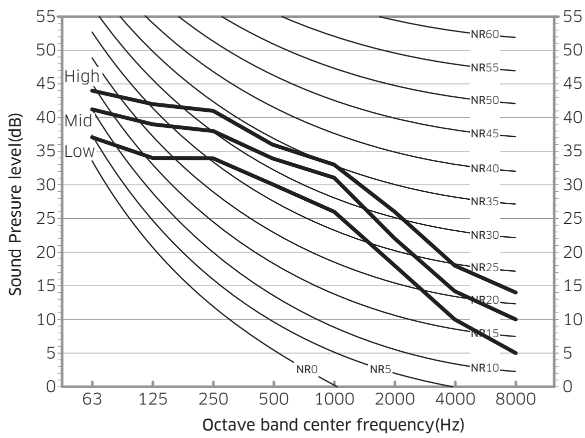


Unit: dB(A)

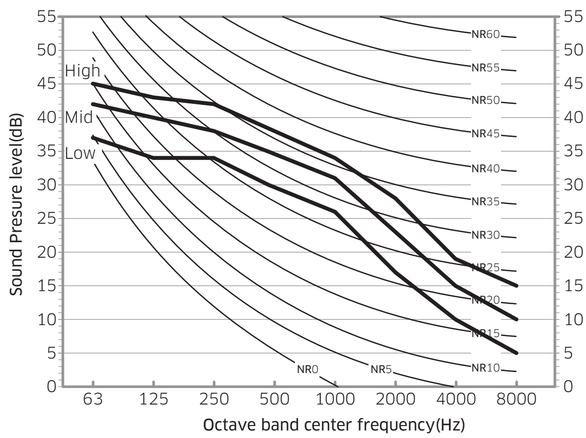
MODEL	HIGH	MID	LOW
AM128HNMPKH/EU	39	36	33
AM140HNMPKH/EU	40	37	33

NR Curve

3) AM128HNMPKH/EU



4) AM140HNMPKH/EU



Fan options		ESP	Sound Pressure (dBA)		
		mmAq	High	Mid	Low
Default	010054-1C5426-208080-331222	5.2	39	36	33
Option	010054-1C5478-208080-331222	8.0	42	39	35
	010054-1C54EE-208080-331222	12.0	44	43	42
	010054-1C5920-208080-331222	15.0	47	46	45

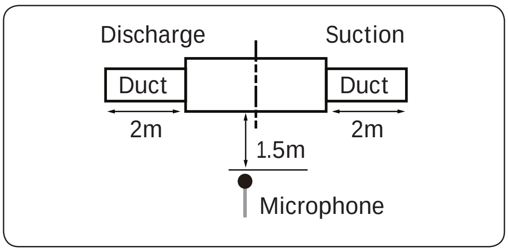
Fan options		ESP	Sound Pressure (dBA)		
		mmAq	High	Mid	Low
Default	010054-1C5444-208C8C-331221	5.2	40	37	33
Option	010054-1C5498-208C8C-331221	8.0	44	40	35
	010054-1C54FA-208C8C-331221	12.0	45	43	42
	010054-1C583E-208C8C-331221	15.0	48	46	45

NOTE

- Specifications may be subject to change without prior notice.
  - Sound pressure level is obtained in an anechoic room.
  - Sound pressure level is a relative value, depending on the distance and acoustic environment.
  - Sound pressure level may differ depending on operation condition.
  - dBA = A-weighted sound pressure level.
  - Reference acoustic pressure 0 dB = 20µPa

7. Sound Data

Sound pressure level

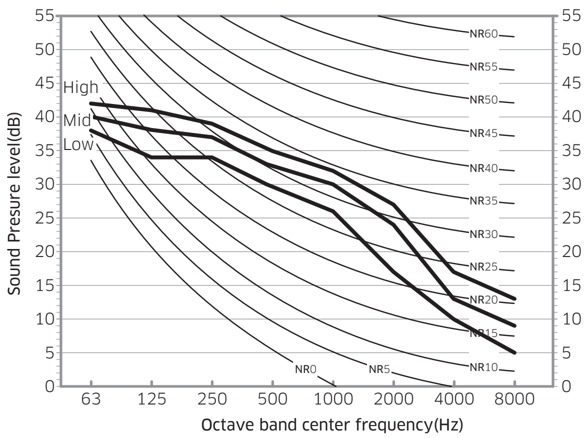


Unit: dB(A)

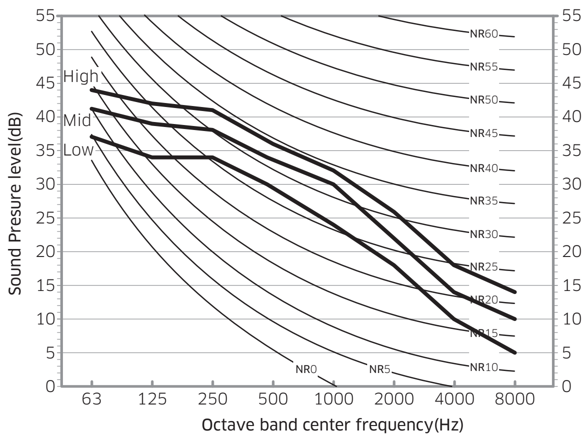
MODEL	HIGH	MID	LOW
AM112HNHPKH/EU	38	35	32
AM128HNHPKH/EU	39	36	33

NR Curve

1) AM112HNHPKH/EU



2) AM128HNHPKH/EU



Fan options		ESP	Sound Pressure (dBA)		
		mmAq	High	Mid	Low
Default	010054-1C5446-207070-331226	6.2	38	35	32
Option	010054-1C54A7-207070-331226	9.0	40	37	33
	010054-1C54C9-207070-331226	11.0	42	41	40
	010054-1C580B-207070-331226	13.0	43	42	41
	010054-1C584D-207070-331226	15.0	46	45	44
	010054-1C587F-207070-331226	17.0	47	46	45
	010054-1C59A1-207070-331226	19.0	48	47	46
	010054-1C59B2-207070-331226	20.0	49	48	47

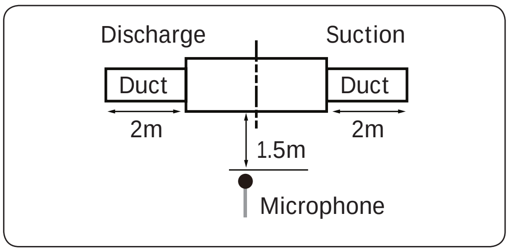
Fan options		ESP	Sound Pressure (dBA)		
		mmAq	High	Mid	Low
Default	010054-1C5466-208080-331225	6.2	39	36	33
Option	010054-1C54B9-208080-331225	9.0	42	39	35
	010054-1C54EC-208080-331225	11.0	44	43	42
	010054-1C581E-208080-331225	13.0	46	45	44
	010054-1C5940-208080-331225	15.0	47	46	45
	010054-1C5982-208080-331225	17.0	48	47	46
	010054-1C59B3-208080-331225	19.0	49	48	47
	010054-1C59C4-208080-331225	20.0	50	49	48

NOTE

- Specifications may be subject to change without prior notice.
  - Sound pressure level is obtained in an anechoic room.
  - Sound pressure level is a relative value, depending on the distance and acoustic environment.
  - Sound pressure level may differ depending on operation condition.
  - dBA = A-weighted sound pressure level.
  - Reference acoustic pressure 0 dB = 20μPa

7. Sound Data

Sound pressure level

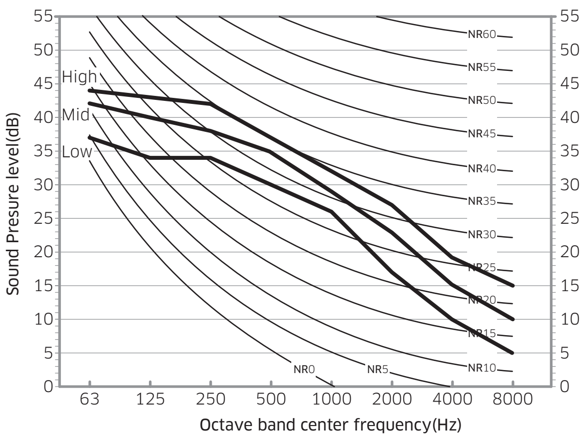


Unit: dB(A)

MODEL	HIGH	MID	LOW
AM140HNHPKH/EU	40	37	34

NR Curve

3) AM140HNHPKH/EU



Fan options		ESP	Sound Pressure (dBA)		
		mmAq	High	Mid	Low
Default	010054-1C5486-208C8C-331224	6.2	40	37	34
Option	010054-1C54D7-208C8C-331224	9.0	44	40	35
	010054-1C5809-208C8C-331224	11.0	45	43	42
	010054-1C583B-208C8C-331224	13.0	47	45	44
	010054-1C586D-208C8C-331224	15.0	48	46	45
	010054-1C588F-208C8C-331224	17.0	49	47	46
	010054-1C59C0-208C8C-331224	19.0	50	48	47
	010054-1C59D1-208C8C-331224	20.0	51	49	48

NOTE
- Specifications may be subject to change without prior notice.
  - Sound pressure level is obtained in an anechoic room.
  - Sound pressure level is a relative value, depending on the distance and acoustic environment.
  - Sound pressure level may differ depending on operation condition.
  - dBA = A-weighted sound pressure level.
  - Reference acoustic pressure 0 dB = 20µPa

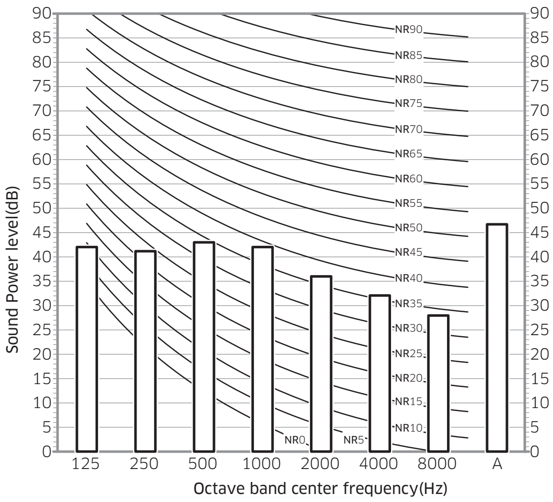
7. Sound Data

Sound power level

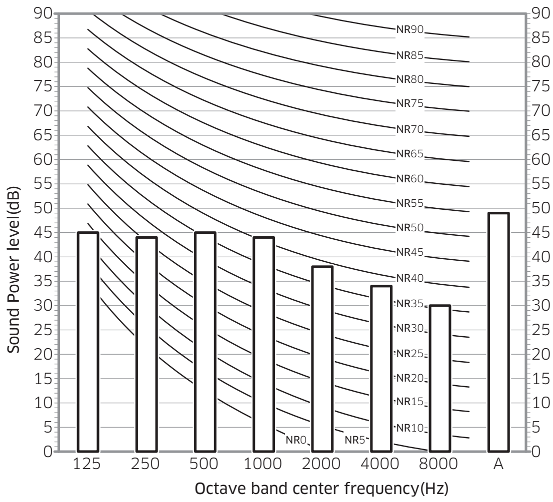
Unit: dB(A)

MODEL	Power	MODEL	Power
AM036HNMPKH/EU	47	AM056HNMPKH/EU	49
AM045HNMPKH/EU	49	AM071HNMPKH/EU	57

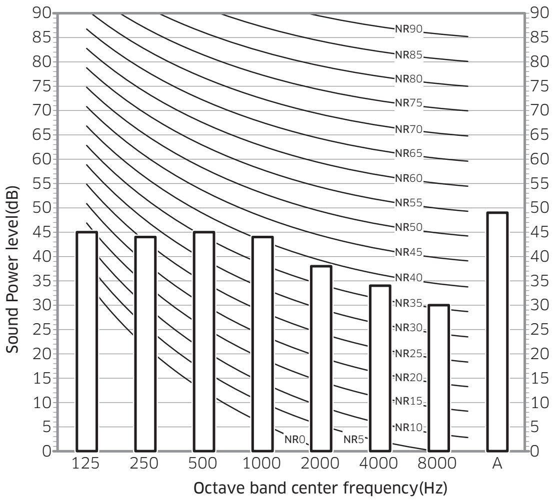
1) AM036HNMPKH/EU



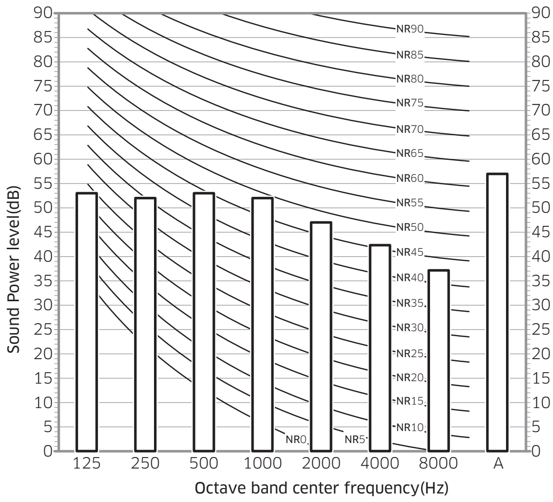
2) AM045HNMPKH/EU



3) AM056HNMPKH/EU



4) AM071HNMPKH/EU



NOTE

- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates
  - dBA = A-weighted sound power level
  - Reference power : 1pW
  - Measured according to ISO 3741

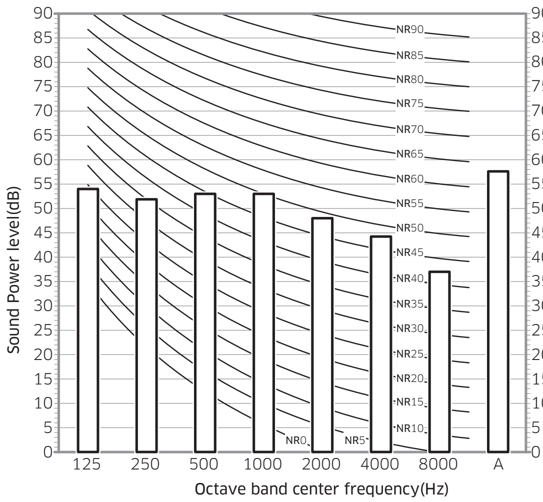
7. Sound Data

Sound power level

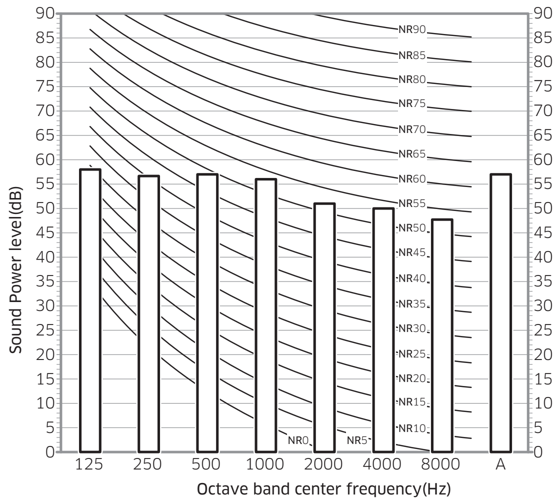
Unit: dB(A)

MODEL	Power	MODEL	Power
AM090HNMPKH/EU	58	AM128HNMPKH/EU	62
AM112HNMPKH/EU	62	AM140HNMPKH/EU	64

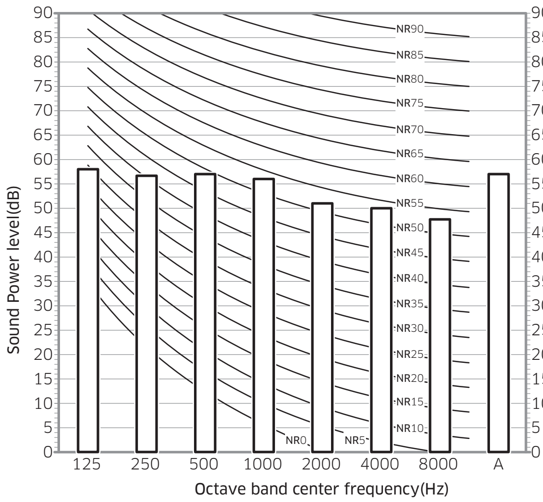
1) AM090HNMPKH/EU



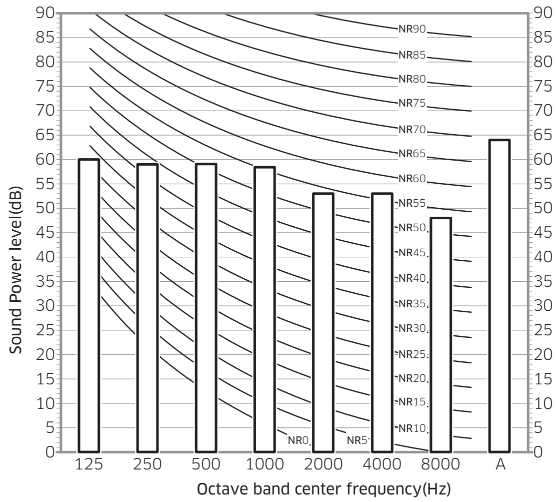
2) AM112HNMPKH/EU



3) AM128HNMPKH/EU



4) AM140HNMPKH/EU



NOTE

- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates
  - dBA = A-weighted sound power level
  - Reference power : 1pW
  - Measured according to ISO 3741

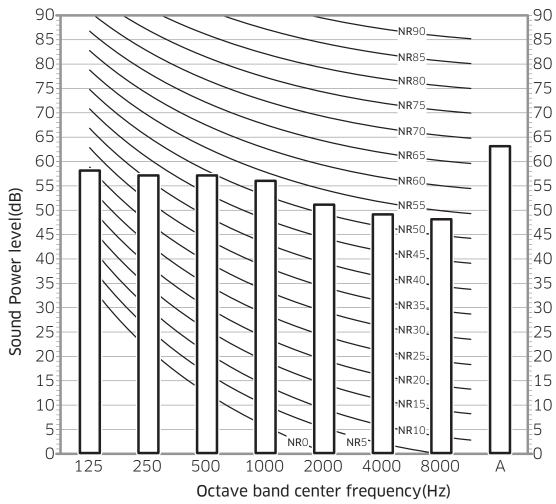
7. Sound Data

Sound power level

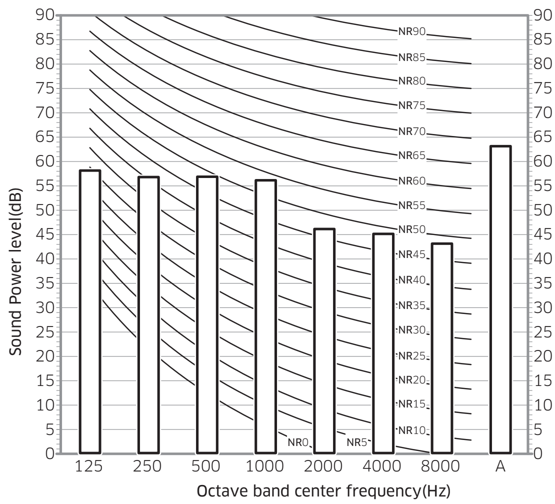
Unit: dB(A)

MODEL	Power	MODEL	Power
AM112HNHPKH/EU	63	AM140HNHPKH/EU	65
AM128HNHPKH/EU	63		

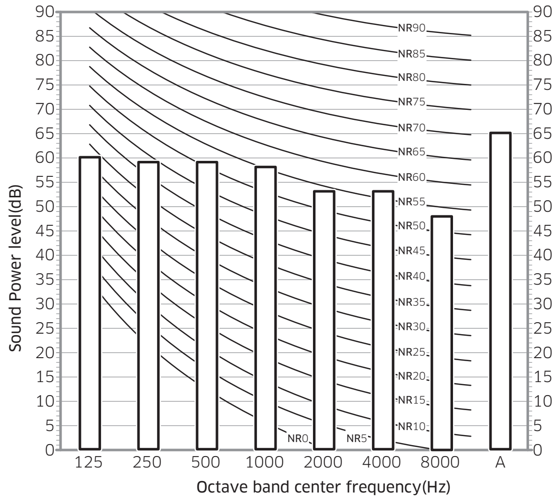
1) AM112HNHPKH/EU



2) AM128HNHPKH/EU



3) AM140HNHPKH/EU



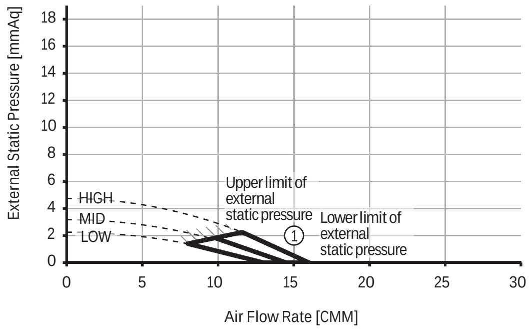
NOTE

- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates
  - dBA = A-weighted sound power level
  - Reference power : 1pW
  - Measured according to ISO 3741

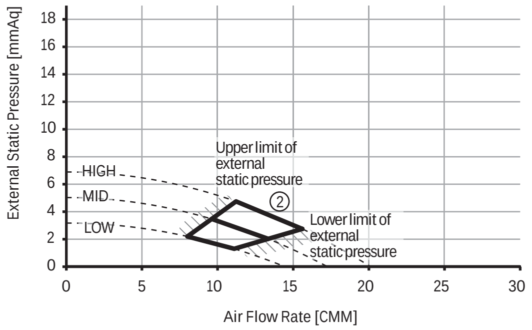
8. Fan Characteristics

1) AM036HNMPKH/EU

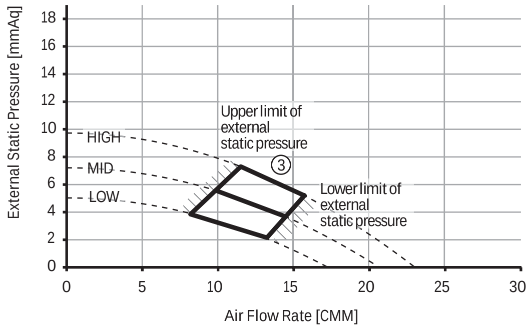
	External Static Pressure(mmAq)	Option Code
①	0≤SP≤2.5	010054-1C5081-202424-331205



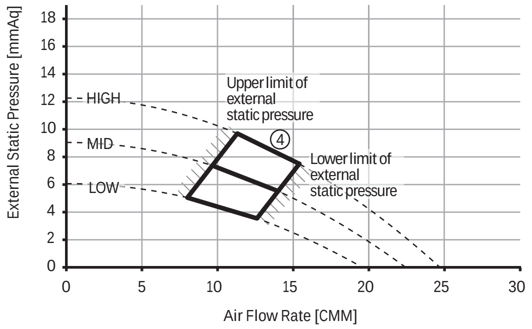
	External Static Pressure(mmAq)	Option Code
②	2.5＜SP≤5	010054-1C50E3-202424-331205



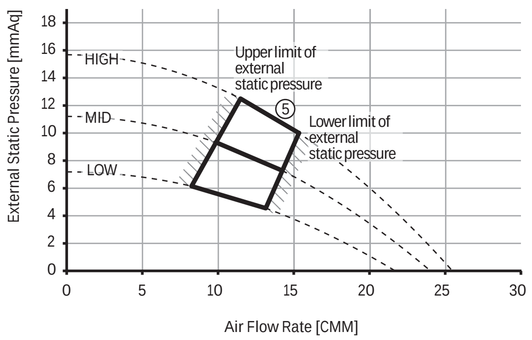
	External Static Pressure(mmAq)	Option Code
③	5＜SP≤7.5	010054-1C5459-202424-331205



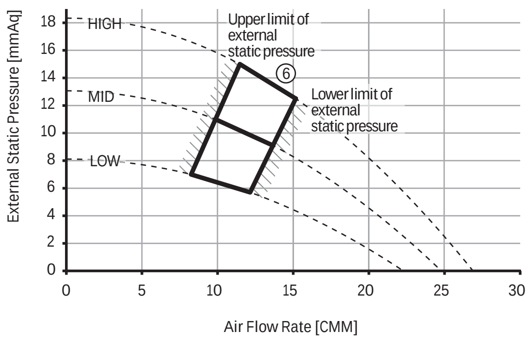
	External Static Pressure(mmAq)	Option Code
④	7.5＜SP≤10	010054-1C54CD-202424-331205



	External Static Pressure(mmAq)	Option Code
⑤	10＜SP≤12.5	010054-1C5931-202424-331205



	External Static Pressure(mmAq)	Option Code
⑥	12.5＜SP≤15	010054-1C5983-202424-331205



Note

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

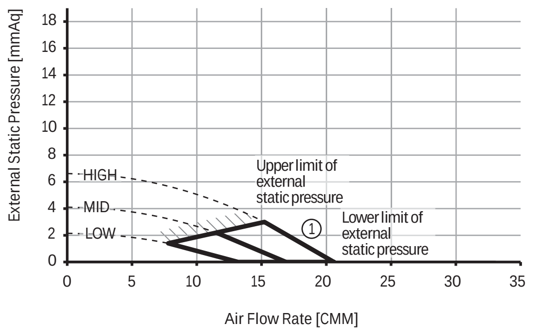
ESP = External Static Pressure

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.

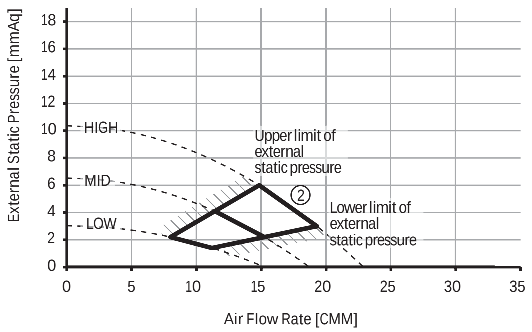
8. Fan Characteristics

2) AM045HNMPKH/EU

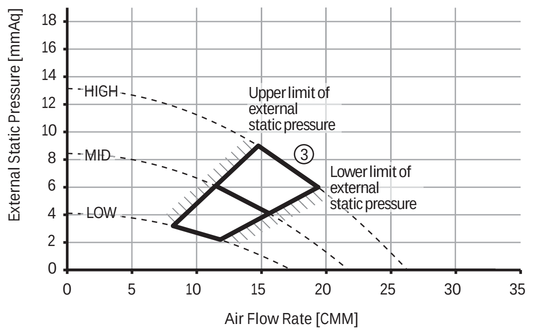
①	External Static Pressure(mmAq)	Option Code
	0≤SP≤3	010054-1C50D1-202D2D-331204



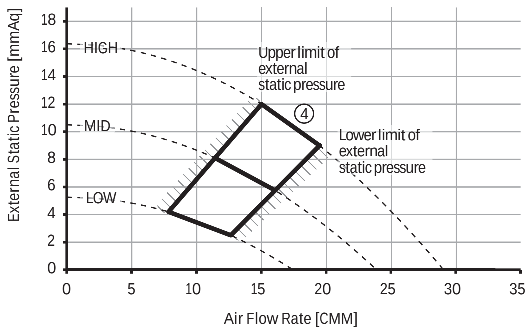
②	External Static Pressure(mmAq)	Option Code
	3＜SP≤6	010054-1C5453-202D2D-331204



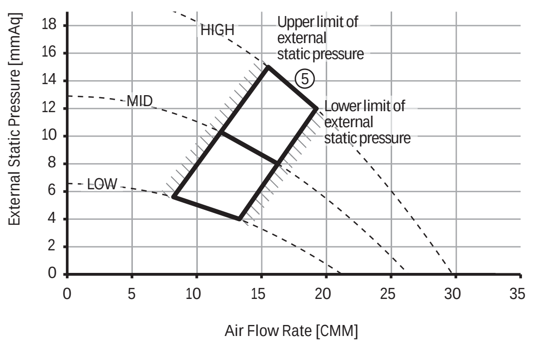
③	External Static Pressure(mmAq)	Option Code
	6＜SP≤9	010054-1C54C7-202D2D-331204



④	External Static Pressure(mmAq)	Option Code
	9＜SP≤12	010054-1C583B-202D2D-331204



⑤	External Static Pressure(mmAq)	Option Code
	12＜SP≤15	010054-1C58AF-202D2D-331204



Note

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

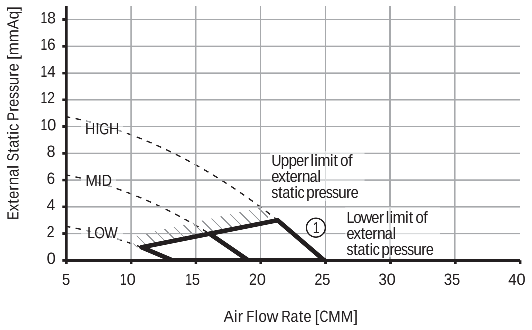
ESP = External Static Pressure

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.

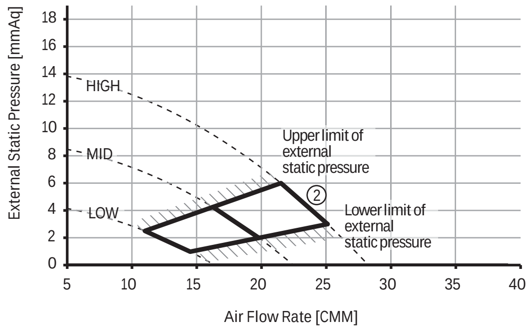
8. Fan Characteristics

3) AM056HNMPKH/EU

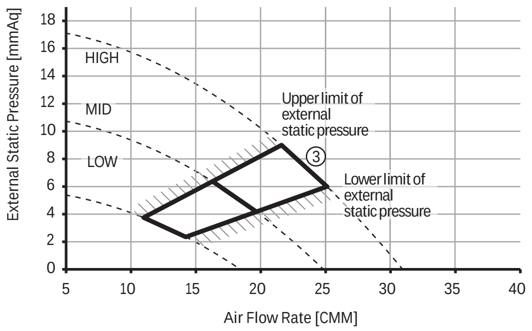
①	External Static Pressure(mmAq)	Option Code
	0≤SP≤3	010054-1C50F1-203838-331203



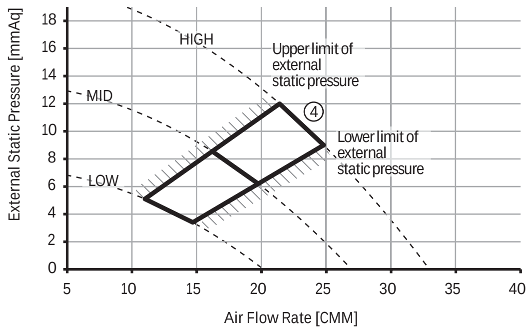
②	External Static Pressure(mmAq)	Option Code
	3＜SP≤6	010054-1C5447-203838-331203



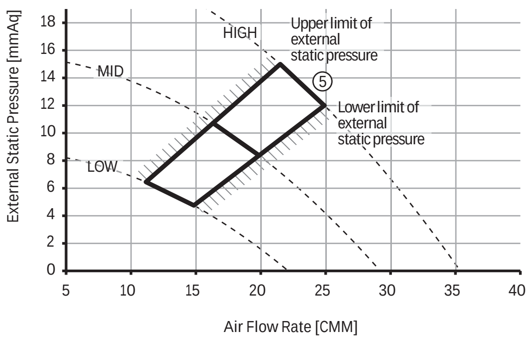
③	External Static Pressure(mmAq)	Option Code
	6＜SP≤9	010054-1C54AB-203838-331203



④	External Static Pressure(mmAq)	Option Code
	9＜SP≤12	010054-1C581F-203838-331203



⑤	External Static Pressure(mmAq)	Option Code
	12＜SP≤15	010054-1C5973-203838-331203



Note

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

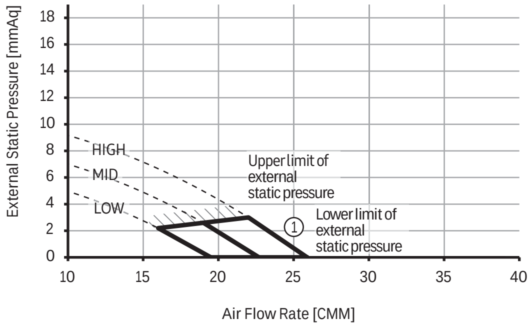
ESP = External Static Pressure

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.

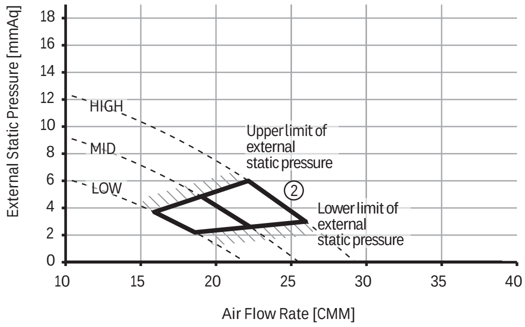
8. Fan Characteristics

4) AM071HNMPKH/EU

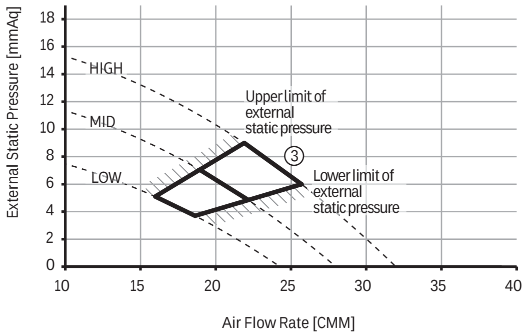
①	External Static Pressure(mmAq)	Option Code
	0≤SP≤3	010054-1C548D-204747-331201



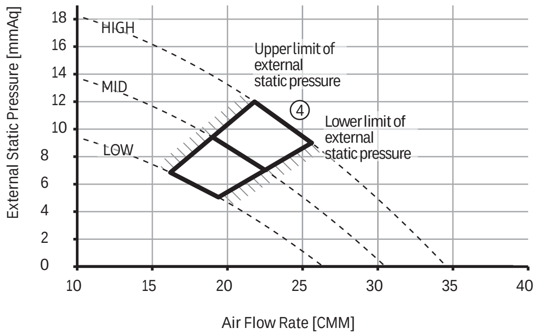
②	External Static Pressure(mmAq)	Option Code
	3＜SP≤6	010054-1C55E1-204747-331201



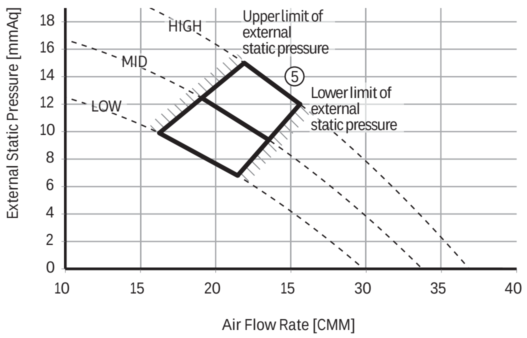
③	External Static Pressure(mmAq)	Option Code
	6＜SP≤9	010054-1C5935-204747-331201



④	External Static Pressure(mmAq)	Option Code
	9＜SP≤12	010054-1C5989-204747-331201



⑤	External Static Pressure(mmAq)	Option Code
	12＜SP≤15	010054-1C59DF-204747-331201



Note

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

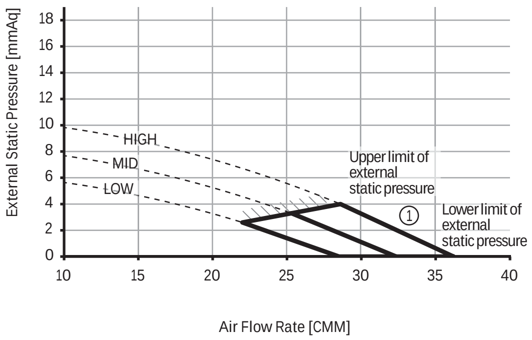
ESP = External Static Pressure

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.

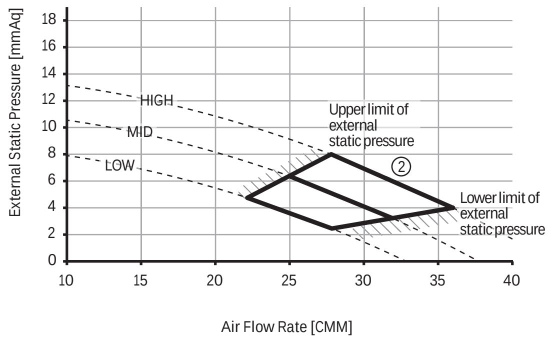
8. Fan Characteristics

5) AM090HNMPKH/EU

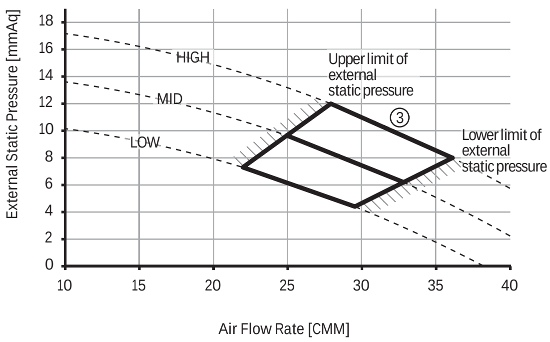
①	External Static Pressure(mmAq)	Option Code
	0≤SP≤4	010054-1C546D-205A5A-331212



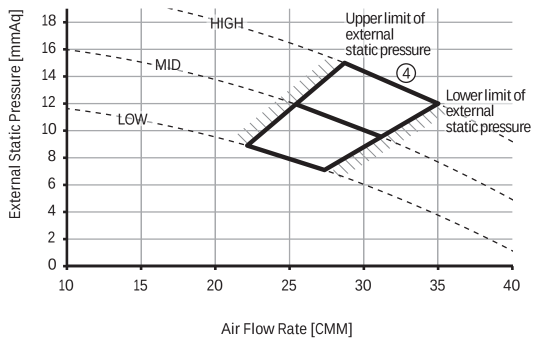
②	External Static Pressure(mmAq)	Option Code
	4＜SP≤8	010054-1C55E3-205A5A-331212



③	External Static Pressure(mmAq)	Option Code
	8＜SP≤12	010054-1C5969-205A5A-331212

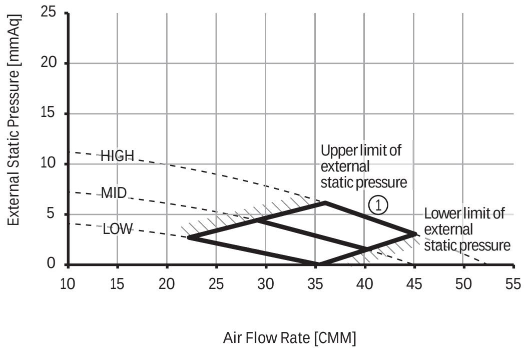


④	External Static Pressure(mmAq)	Option Code
	12＜SP≤15	010054-1C59CD-205A5A-331212

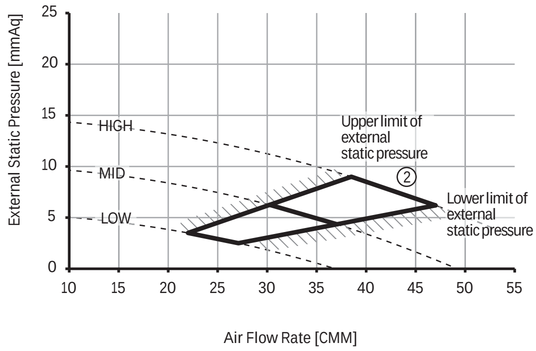


6) AM112HNHPKH/EU

①	External Static Pressure(mmAq)	Option Code
	3≤SP≤6.2	010054-1C5446-207070-331226



②	External Static Pressure(mmAq)	Option Code
	6.2＜SP≤9	010054-1C54A7-207070-331226



Note

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

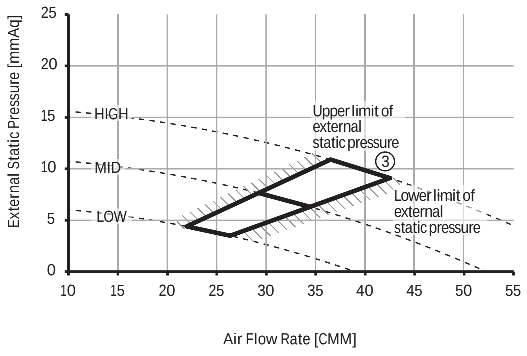
ESP = External Static Pressure

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.

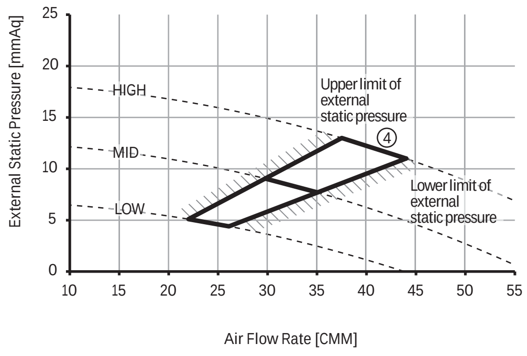
8. Fan Characteristics

6) AM112HNHPKH/EU

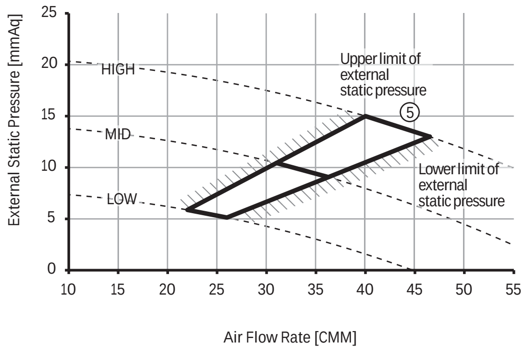
③	External Static Pressure(mmAq)	Option Code
	9<SP≤11	010054-1C54C9-207070-331226



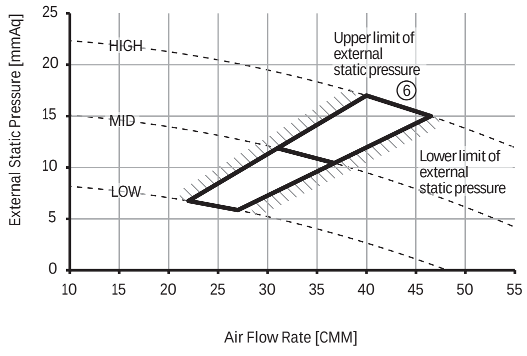
④	External Static Pressure(mmAq)	Option Code
	11<SP≤13	010054-1C580B-207070-331226



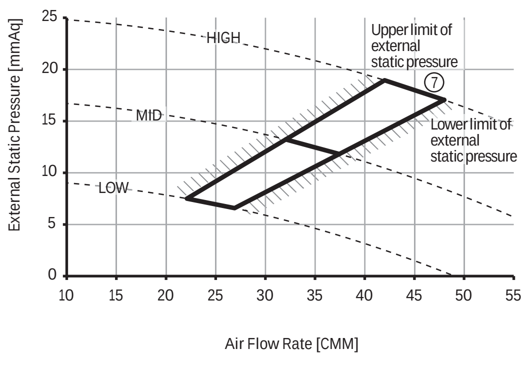
⑤	External Static Pressure(mmAq)	Option Code
	13<SP≤15	010054-1C584D-207070-331226



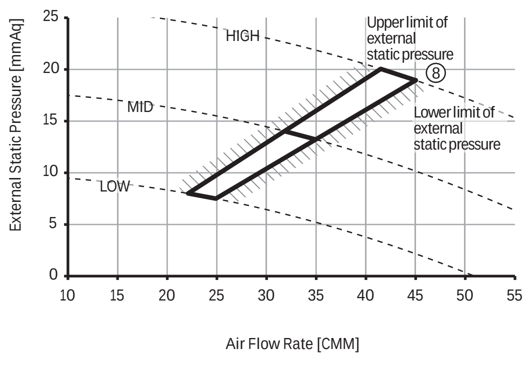
⑥	External Static Pressure(mmAq)	Option Code
	15<SP≤17	010054-1C587F-207070-331226



⑦	External Static Pressure(mmAq)	Option Code
	17<SP≤19	010054-1C59A1-207070-331226



⑧	External Static Pressure(mmAq)	Option Code
	19<SP≤20	010054-1C59B2-207070-331226



Note

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

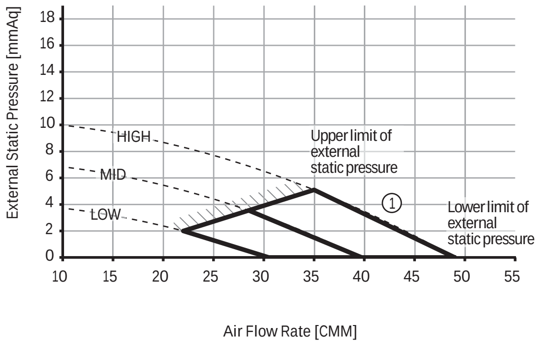
ESP = External Static Pressure

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.

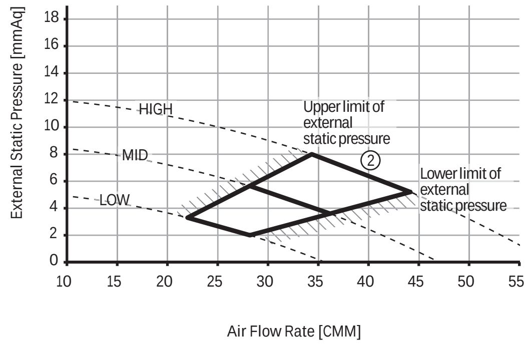
8. Fan Characteristics

7) AM112HNMPKH/EU

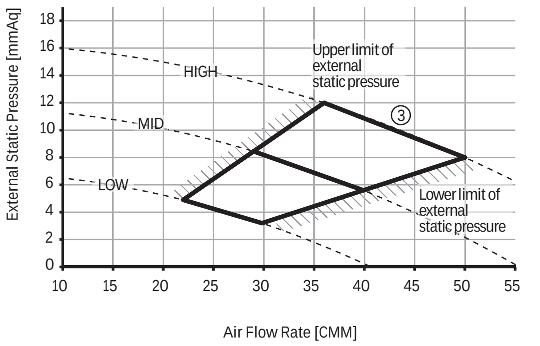
	External Static Pressure(mmAq)	Option Code
①	0≤SP≤5.2	010054-1C5412-207070-331223



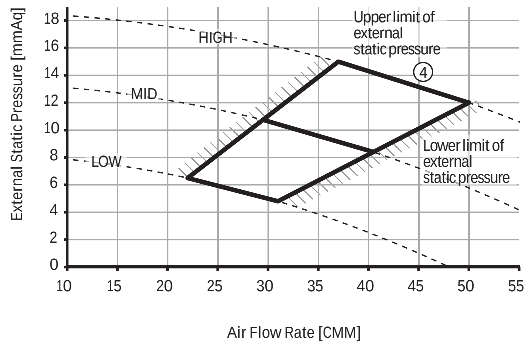
	External Static Pressure(mmAq)	Option Code
②	5.2＜SP≤8	010054-1C5466-207070-331223



	External Static Pressure(mmAq)	Option Code
③	8＜SP≤12	010054-1C54EA-207070-331223



	External Static Pressure(mmAq)	Option Code
④	12＜SP≤15	010054-1C583E-207070-331223



Note

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

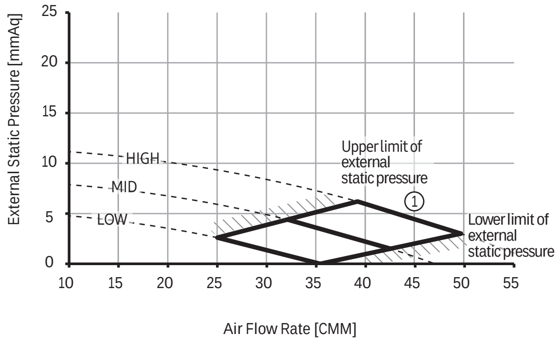
ESP = External Static Pressure

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.

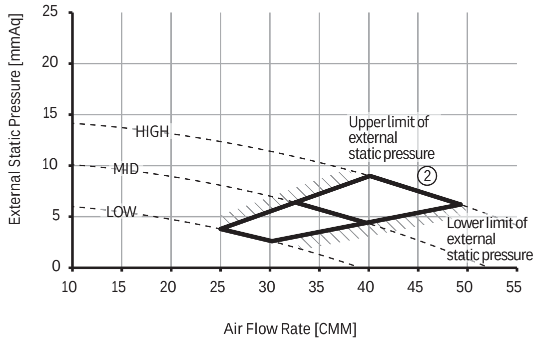
8. Fan Characteristics

8) AM128HNHPKH/EU

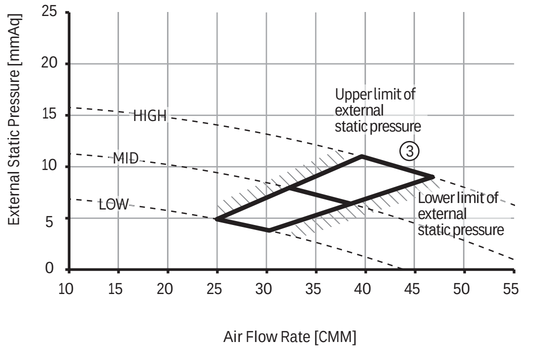
①	External Static Pressure(mmAq)	Option Code
	3≤SP≤6.2	010054-1C5466-208080-331225



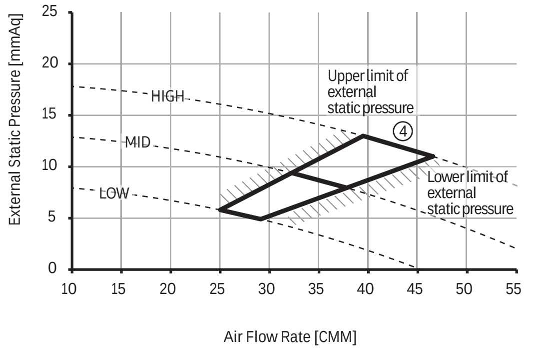
②	External Static Pressure(mmAq)	Option Code
	6.2＜SP≤9	010054-1C54B9-208080-331225



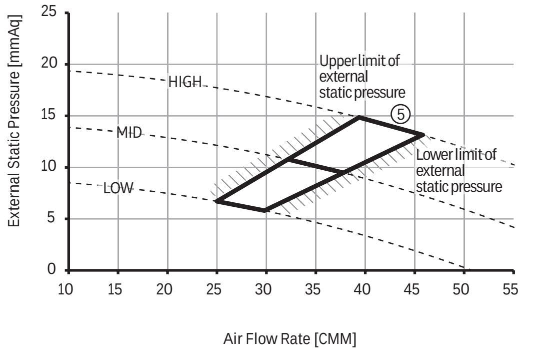
③	External Static Pressure(mmAq)	Option Code
	9＜SP≤11	010054-1C54EC-208080-331225



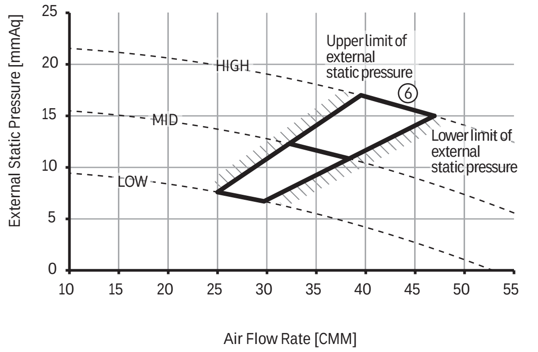
④	External Static Pressure(mmAq)	Option Code
	11＜SP≤13	010054-1C581E-208080-331225



⑤	External Static Pressure(mmAq)	Option Code
	13＜SP≤15	010054-1C5940-208080-331225



⑥	External Static Pressure(mmAq)	Option Code
	15＜SP≤17	010054-1C5982-208080-331225



Note

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

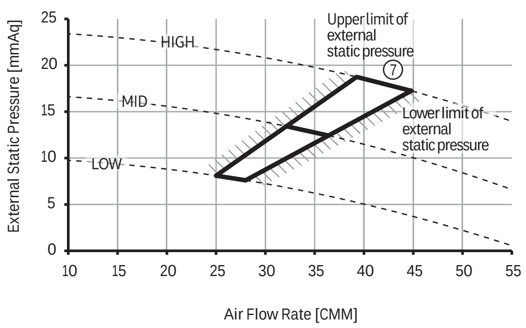
ESP = External Static Pressure

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.

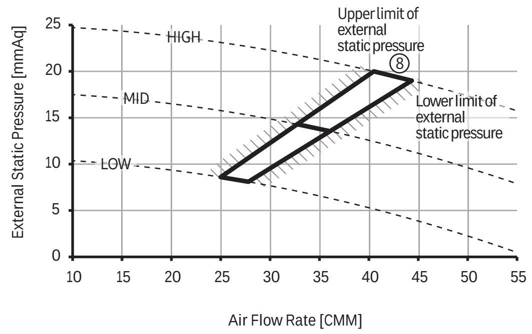
8. Fan Characteristics

8) AM128HNHPKH/EU

⑦	External Static Pressure(mmAq)	Option Code
	17＜SP≤19	010054-1C59B3-208080-331225

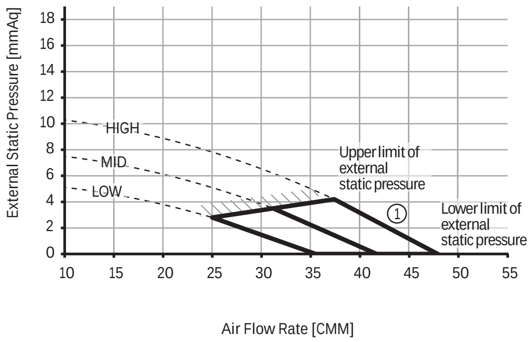


⑧	External Static Pressure(mmAq)	Option Code
	19＜SP≤20	010054-1C59C4-208080-331225

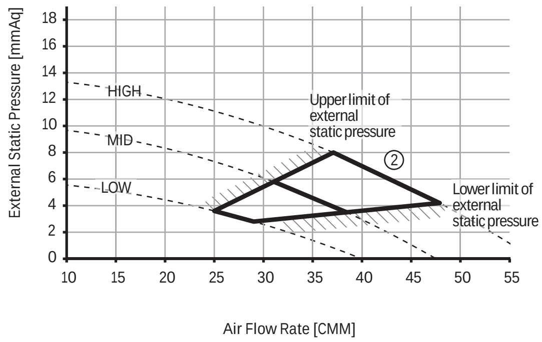


9) AM128HNMPKH/EU

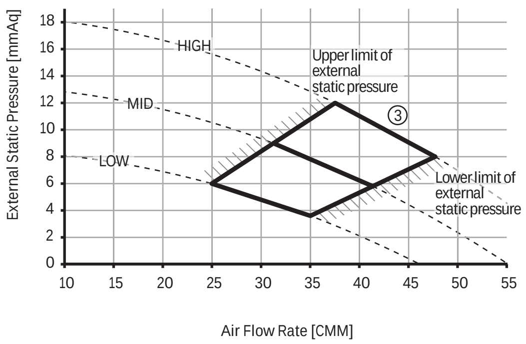
①	External Static Pressure(mmAq)	Option Code
	0≤SP≤5.2	010054-1C5426-208080-331222



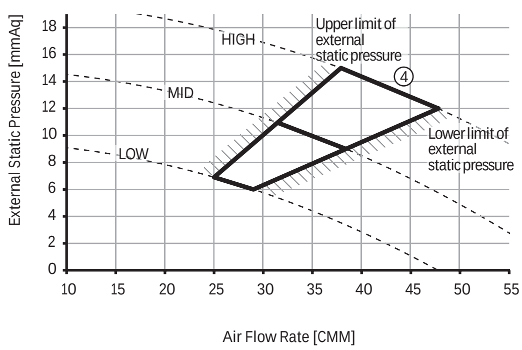
②	External Static Pressure(mmAq)	Option Code
	5.2＜SP≤8	010054-1C5478-208080-331222



③	External Static Pressure(mmAq)	Option Code
	8＜SP≤12	010054-1C54EE-208080-331222



④	External Static Pressure(mmAq)	Option Code
	12＜SP≤15	010054-1C5920-208080-331222



Note

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

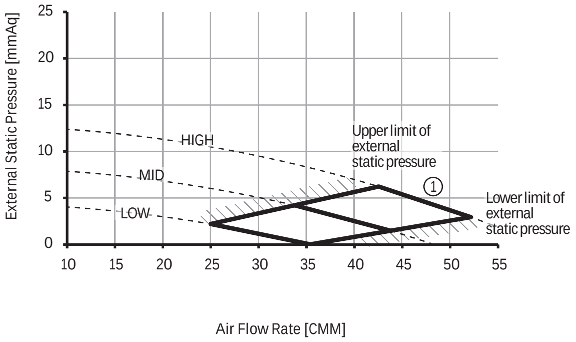
ESP = External Static Pressure

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.

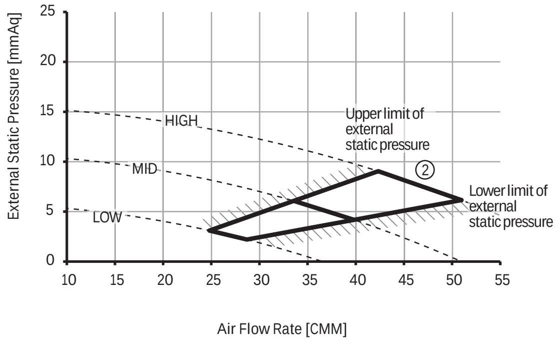
8. Fan Characteristics

10) AM140HNHPKH/EU

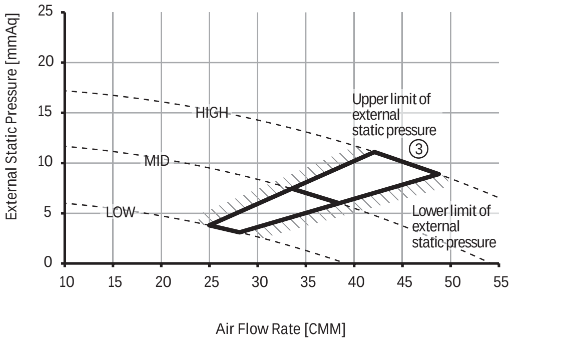
	External Static Pressure(mmAq)	Option Code
①	3≤SP≤6.2	010054-1C5486-208C8C-331224



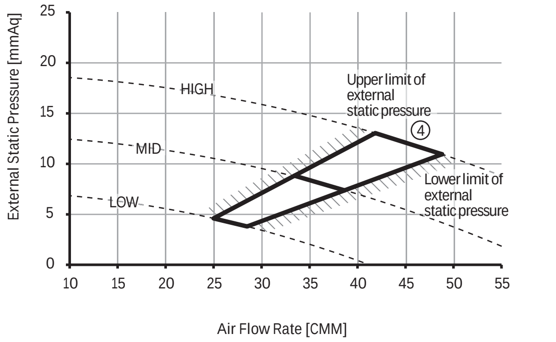
	External Static Pressure(mmAq)	Option Code
②	6.2＜SP≤9	010054-1C54D7-208C8C-331224



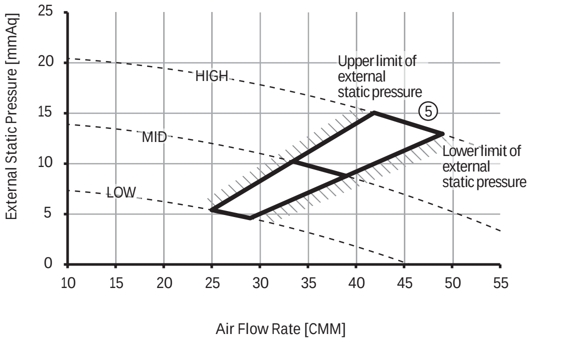
	External Static Pressure(mmAq)	Option Code
③	9＜SP≤11	010054-1C5809-208C8C-331224



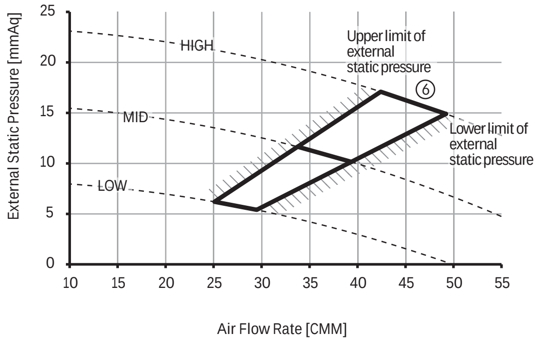
	External Static Pressure(mmAq)	Option Code
④	11＜SP≤13	010054-1C583B-208C8C-331224



	External Static Pressure(mmAq)	Option Code
⑤	13＜SP≤15	010054-1C586D-208C8C-331224



	External Static Pressure(mmAq)	Option Code
⑥	15＜SP≤17	010054-1C588F-208C8C-331224



Note

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

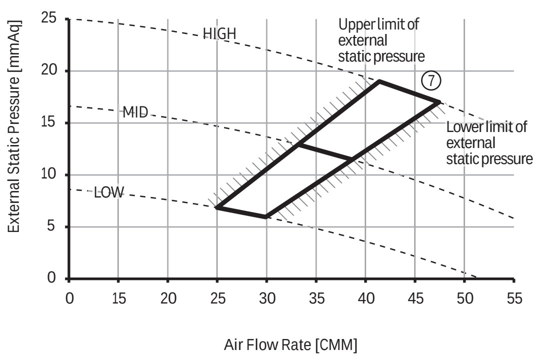
ESP = External Static Pressure

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.

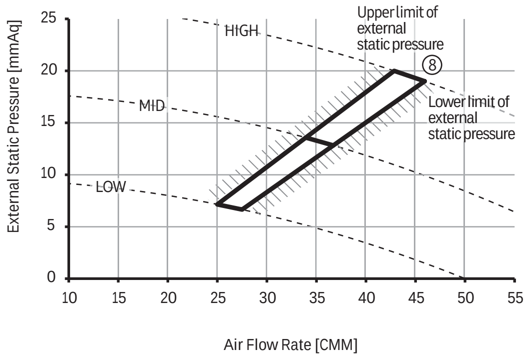
8. Fan Characteristics

10) AM140HNHPKH/EU

	External Static Pressure(mmAq)	Option Code
7	17＜SP≤19	010054-1C59C0-208C8C-331224

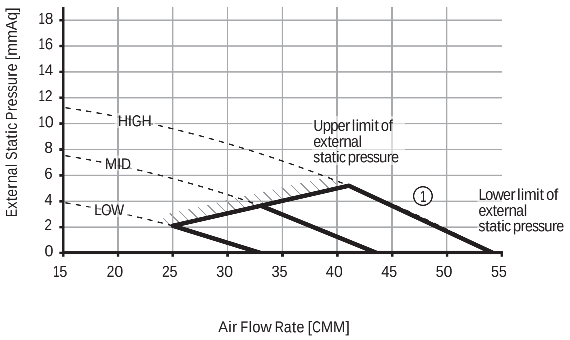


	External Static Pressure(mmAq)	Option Code
8	19＜SP≤20	010054-1C59D1-208C8C-331224

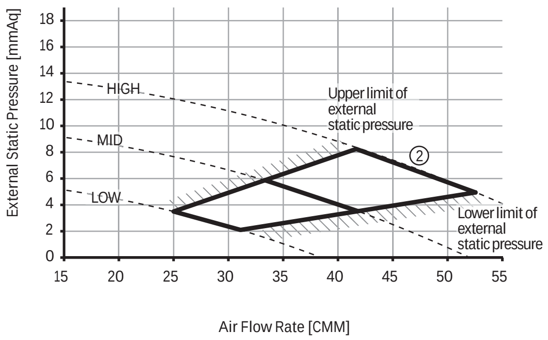


11) AM140HNMPKH/EU

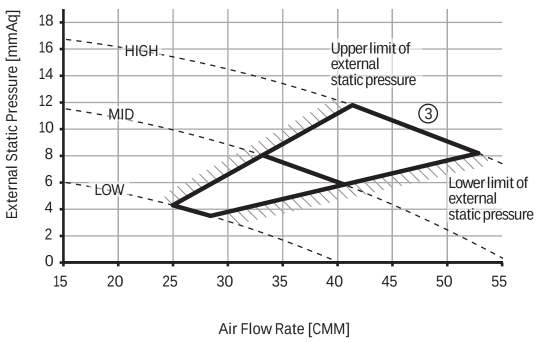
	External Static Pressure(mmAq)	Option Code
1	0≤SP≤5.2	010054-1C5444-208C8C-331221



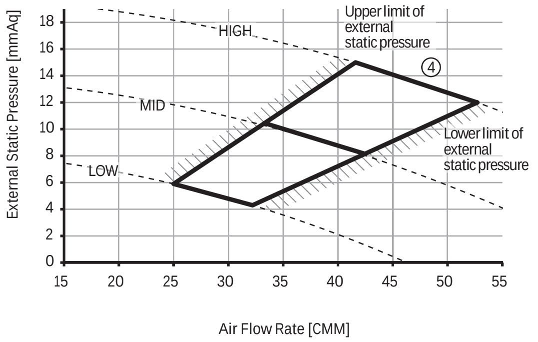
	External Static Pressure(mmAq)	Option Code
2	5.2＜SP≤8	010054-1C5498-208C8C-331221



	External Static Pressure(mmAq)	Option Code
3	8＜SP≤12	010054-1C54FA-208C8C-331221



	External Static Pressure(mmAq)	Option Code
4	12＜SP≤15	010054-1C583E-208C8C-331221

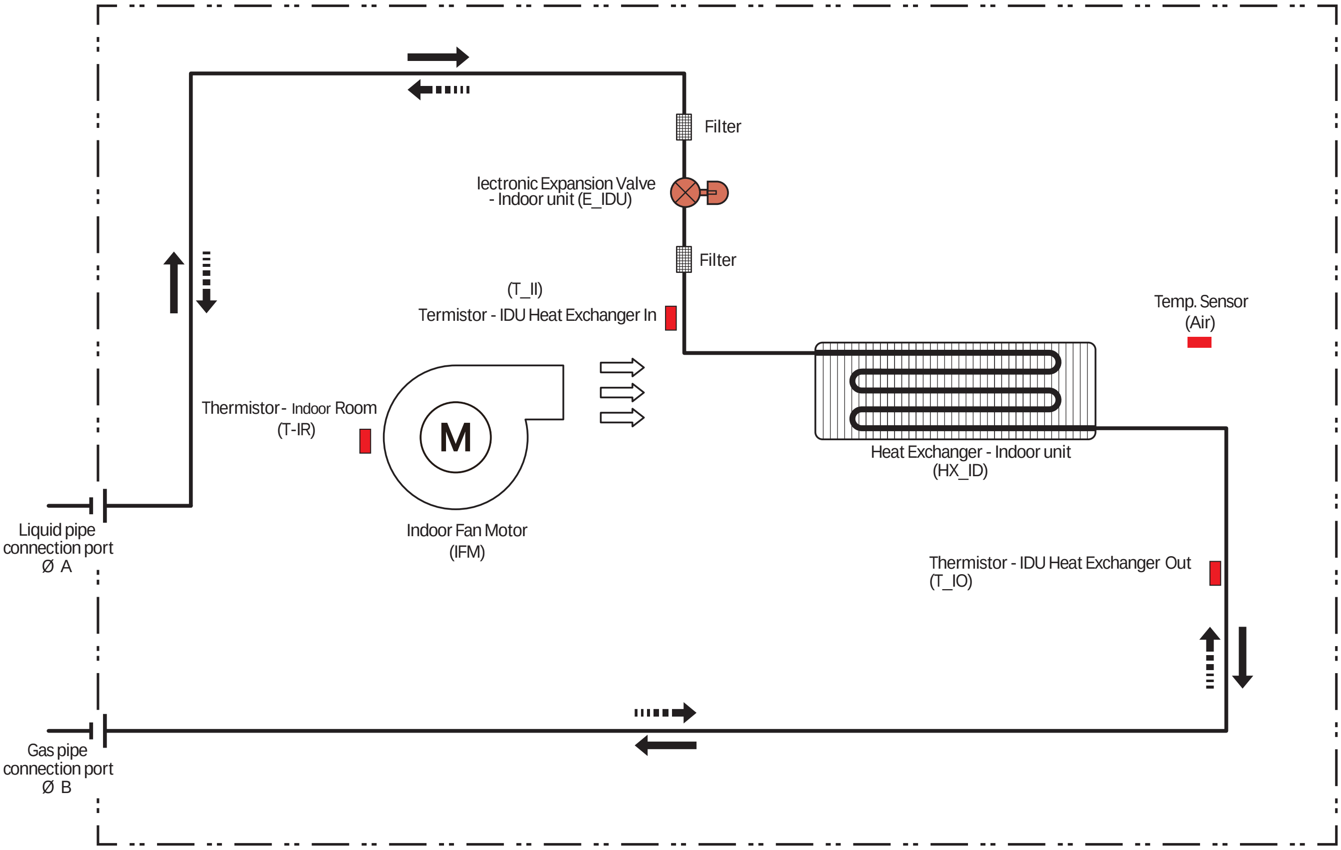


Note

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

9. Piping Diagram

Duct S



Refrigerant flow	
Cooling	Heating
→	⇢

MODEL	A	B
AM036HNMPKH✳✳✳	6.35	12.7
AM045HNMPKH✳✳✳		
AM056HNMPKH✳✳✳		
AM071HNMPKH✳✳✳	9.52	15.88
AM090HNMPKH✳✳✳		
AM112HN✳PKH✳✳✳		
AM128HN✳PKH✳✳✳		
AM140HN✳PKH✳✳✳		

Slim Duct

1 Specifications

Slim Duct

Model				AM017FNLDEH/EU	AM022FNLDEH/EU	AM028FNLDEH/EU	AM036FNLDEH/EU	AM045FNLDEH/EU	AM056FNLDEH/EU
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			-	HP / HR	HP / HR	HP / HR	HP / HR	HP / HR	HP/HR
Performance	Capacity (Nominal)	Cooling	kW	1.7	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	kW	1.9	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	W	55	55	60	65	90	95
		Heating		55	55	60	65	90	95
	Current Input (Nominal)	Cooling	A	0.30	0.30	0.32	0.33	0.52	0.53
		Heating		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	5.5 / 4.3 / 3.2	7.0 / 6.1 / 5.3	7.5 / 6.6 / 5.6	7.5 / 6.6 / 5.6	11.0 / 9.6 / 8.3	12.0 / 10.5 / 9.0
			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	0.0 / 1.0 / 3.0	0.0 / 1.0 / 3.0	0.0 / 1.0 / 3.0	0.0 / 1.0 / 3.0	0.0 / 2.0 / 4.0	0.0 / 2.0 / 4.0
			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 ~ 1.5	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	dBA	23 / 22 / 20	26 / 24 / 21	28 / 26 / 23	32 / 30 / 27	35 / 31 / 26	36 / 34 / 31
Dimensions	Net Weight		kg	19.0	19.0	19.0	19.5	24.0	24.0
	Shipping Weight		kg	23.0	23.0	23.0	23.5	29.0	29.0
	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	1,150 x 280 x 710	1,150 x 280 x 710
Panel Size	Panel Model		-	-	-	-	-	-	-
	Net Weight		kg	-	-	-	-	-	-
	Shipping Weight		kg	-	-	-	-	-	-
	Net Dimensions (WxHxD)		mm	-	-	-	-	-	-
	Shipping Dimensions (WxHxD)		mm	-	-	-	-	-	-
Additional Accessories	Drain Pump	Drain Pump	-	MDP-E075SEE3D	MDP-E075SEE3D	MDP-E075SEE3D	MDP-E075SEE3D	MDP-E075SEE3D	MDP-E075SEE3D
		Max. Lifting Height/ Displacement	mm/liter/h	750 / 24	750 / 24	750 / 24	750 / 24	750 / 24	750 / 24
	Air Filter		-	Long life filter	Long life filter	Long life filter	Long life filter	Long life filter	Long life filter

NOTE

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

* Heat Exchanger type : Fin & Tube (Fin : Al, Tube : Cu)

Slim Duct

Model				AM071FNLDEH/EU	AM090FNLDEH/EU	AM112FNLDEH/EU	AM128FNLDEH/EU	AM140FNLDEH/EU
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			-	HP / HR	HP / HR	HP / HR	HP / HR	HP / HR
Performance	Capacity (Nominal)	Cooling	kW	7.1	9.0	11.2	12.8	14.0
			Btu/h	24,200	30,700	38,200	43,700	47,800
		Heating	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	W	120	170	170	200	220
		Heating		120	170	170	200	220
	Current Input (Nominal)	Cooling	A	0.60	0.96	0.96	1.28	1.43
		Heating		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	16.5 / 15.0 / 13.5	29.0 / 27.0 / 25.0	31.2 / 29.0 / 27.0	34.0 / 32.0 / 30.0	36.0 / 34.0 / 32.0
			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	0.0 / 2.0 / 4.0	0.0 / 3.0 / 6.0	0.0 / 3.0 / 6.0	0.0 / 3.0 / 6.0	0.0 / 3.0 / 6.0
			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	010054-1B5E7F-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	dBA	38 / 36 / 33	37 / 36 / 34	37 / 36 / 34	37 / 36 / 34	39 / 38 / 36
Dimensions	Net Weight		kg	30.0	40.0	40.0	41.5	41.5
	Shipping Weight		kg	34.5	47.0	47.0	48.5	48.5
	Net Dimensions (WxHxD)		mm	1,100 x 199 x 600	1,300 x 295 x 690	1,300 x 295 x 690	1,300 x 295 x 690	1,300 x 295 x 690
	Shipping Dimensions (WxHxD)		mm	1,350 x 280 x 710	1,575 x 370 x 835	1,575 x 370 x 835	1,575 x 370 x 835	1,575 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

NOTE

1) Mode : HP(Heat Pump), HR(Heat Recovery)
2) Nominal Cooling : Indoor temperature 27ºCDB / 19ºCWB, Outdoor temperature 35ºCDB/24ºCWB, Refrigerant pipe length 7.5m, Level difference 0m.
3) Nominal Heating : Indoor temperature 20ºCDB / 15ºCWB, Outdoor temperature 7ºCDB / 6ºCWB, Refrigerant pipe length 7.5m, Level difference 0m.
4) Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
5) These products contain R410A which is fluorinated greenhouse gas.
6) Specifications may be subject to change without prior notice.
* Heat Exchanger type : Fin & Tube (Fin : Al, Tube : Cu)

1 Specifications

Slim Duct (Home)

Type				SLIM DUCT	SLIM DUCT
Model				AM017KNLDEH/EU	AM022KNLDEH/EU
Power Supply			Φ, #, V, Hz	1,2,220-240,50	1,2,220-240,50
Mode			-	HP/HR	HP/HR
Performance	Capacity (Nominal)	Cooling	kW	1.7	2.2
			Btu/h	5,800	7,500
		Heating	kW	1.9	2.5
			Btu/h	6,500	8,500
Power	Power Input (Nominal)	Cooling	W	28	30
		Heating		28	30
	Current Input (Nominal)	Cooling	A	0.23	0.25
		Heating		0.23	0.25
Fan	Type		-	Sirocco Fan	Sirocco Fan
	Motor	Output x n	W	69 x 1	69 x 1
	Air Flow Rate	H/M/L (UL)	CMM	5.45 / 4.45 / 3.80	6.00 / 4.90 / 3.80
			l/s	90.83 / 74.17 / 63.33	100 / 81.67 / 63.33
	External Static Pressure	Min / Std / Max	mmAq	0.0 / 1.0 / 3.0	0.0 / 1.0 / 3.0
			Pa	0.00 / 9.81 / 29.42	0.00 / 9.81 / 29.42
Piping Connections	Liquid Pipe		Φ,mm	6.35	6.35
			Φ, inch	1/4"	1/4"
	Gas Pipe		Φ,mm	12.70	12.70
			Φ, inch	1/2"	1/2"
	Drain Pipe		Φ,mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
Field Wiring	Power Source Wire		mm^2	1.5 ~ 2.5	1.5 ~ 2.5
	Transmission Cable		mm^2	0.75 ~ 1.50	0.75 ~ 1.50
Refrigerant	Type		-	R410A	R410A
	Control Method		-	EEV INCLUDED	EEV INCLUDED
Sound Data	Sound Pressure Level	High / Mid / Low	dB(A)	25 / 22 / 19	26 / 23 / 19
	Sound Power Level	Cooling		40	42
Dimensions	Net Weight		kg	15.3	15.3
	Shipping Weight		kg	18.2	18.2
	Net Dimensions (W×H×D)		mm	700 x 199 x 440	700 x 199 x 440
	Shipping Dimensions (W×H×D)		mm	949 x 280 x 544	949 x 280 x 544
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	-	Drain Pump Included	Drain Pump Included
		Max. lifting Height / Displacement	mm / liter/h	750 / 24	750 / 24
	Air Filter		-	Filter Included	Filter Included

NOTE

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

* Heat Exchanger type : Fin & Tube (Fin : Al, Tube : Cu)

Slim Duct (Home)

				SLIM DUCT	SLIM DUCT
Type				SLIM DUCT	SLIM DUCT
Model				AM028KNLDEH/EU	AM036KNLDEH/EU
Power Supply			Φ, #, V, Hz	1,2,220-240,50	1,2,220-240,50
Mode			-	HP/HR	HP/HR
Performance	Capacity (Nominal)	Cooling	kW	2.8	3.6
			Btu/h	9,600	12,300
		Heating	kW	3.2	4.0
			Btu/h	10,900	13,600
Power	Power Input (Nominal)	Cooling	W	34	40
		Heating		36	42
	Current Input (Nominal)	Cooling	A	0.28	0.33
		Heating		0.30	0.35
Fan	Type		-	Sirocco Fan	Sirocco Fan
	Motor	Output x n	W	69 x 1	69 x 1
	Air Flow Rate	H/M/L (UL)	CMM	7.05 / 5.15 / 4.35	8.20 / 6.50 / 4.90
			l/s	117.5 / 85.83 / 72.5	136.67 / 108.33 / 81.67
	External Static Pressure	Min / Std / Max	mmAq	0.0 / 1.0 / 3.0	0.0 / 1.0 / 3.0
			Pa	0.00 / 9.81 / 29.42	0.00 / 9.81 / 29.42
Piping Connections	Liquid Pipe		Φ,mm	6.35	6.35
			Φ, inch	1/4"	1/4"
	Gas Pipe		Φ,mm	12.70	12.70
			Φ, inch	1/2"	1/2"
	Drain Pipe		Φ,mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
Field Wiring	Power Source Wire		mm^2	1.5 ~ 2.5	1.5 ~ 2.5
	Transmission Cable		mm^2	0.75 ~ 1.50	0.75 ~ 1.50
Refrigerant	Type		-	R410A	R410A
	Control Method		-	EEV INCLUDED	EEV INCLUDED
Sound Data	Sound Pressure Level	High / Mid / Low	dB(A)	28 / 24 / 19	31 / 26 / 20
	Sound Power Level	Cooling		44	46
Dimensions	Net Weight		kg	15.3	15.7
	Shipping Weight		kg	18.2	18.6
	Net Dimensions (W×H×D)		mm	700 x 199 x 440	700 x 199 x 440
	Shipping Dimensions (W×H×D)		mm	949 x 280 x 544	949 x 280 x 544
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	-	Drain Pump Included	Drain Pump Included
		Max. lifting Height / Displacement	mm / liter/h	750 / 24	750 / 24
	Air Filter		-	Filter Included	Filter Included

NOTE

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

* Heat Exchanger type : Fin & Tube (Fin : Al, Tube : Cu)

Slim Duct

Type				SLIM DUCT	SLIM DUCT
Model				AM045KNLDEH/EU	AM056KNLDEH/EU
Power Supply			Φ, #, 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	90.00	95.00
		Heating		90.00	95.00
	Current Input (Nominal)	Cooling	A	0.52	0.53
		Heating		0.52	0.53
Fan	Type		-	Sirocco Fan	Sirocco Fan
	Motor	Output x n	W	-	-
	Air Flow Rate	H/M/L (UL)	CMM	11.00/9.60/8.30	12.00/10.50/9.00
			l/s	183.33/160.00/138.33	200.00/175.00/150.00
	External Static Pressure	Min / Std / Max	mmAq	0.00/2.00/4.00	0.00/2.00/4.00
			Pa	0.00/19.61/39.23	0.00/19.61/39.23
Piping Connections	Liquid Pipe		Φ,mm	6.35	6.35
			Φ, inch	1/4"	1/4"
	Gas Pipe		Φ,mm	12.70	12.70
			Φ, inch	1/2"	1/2"
	Drain Pipe		Φ,mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
Field Wiring	Power Source Wire		mm^2	1.5 ~ 2.5	1.5 ~ 2.5
	Transmission Cable		mm^2	0.75 ~ 1.50	0.75 ~ 1.50
Refrigerant	Type		-	R410A	R410A
	Control Method		-	EEV INCLUDED	EEV INCLUDED
Sound Data	Sound Pressure Level	High / Mid / Low	dB(A)	35 / 31 / 26	36 / 34 / 31
	Sound Power Level	Cooling		53	55
Dimensions	Net Weight		kg	24.5	24.5
	Shipping Weight		kg	29.5	29.5
	Net Dimensions (W×H×D)		mm	900 x 199 x 600	900 x 199 x 600
	Shipping Dimensions (W×H×D)		mm	1150 x 280 x 710	1150 x 280 x 710
Panel Size	Panel model		-	-	-
	Panel Net Weight		kg	-	-
	Shipping Weight		kg	-	-
	Net Dimensions (W×H×D)		mm	-	-
	Shipping Dimensions (W×H×D)		mm	-	-
Additional Accessories	Drain pump	Drain pump	-	Drain Pump Included	Drain Pump Included
		Max. lifting Height / Displacement	mm / liter/h	750 / 24	750 / 24
	Air Filter		-	Filter Included	Filter Included

NOTE

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

* Heat Exchanger type : Fin & Tube (Fin : Al, Tube : Cu)

Specifications

Slim Duct

Type				SLIM DUCT	SLIM DUCT
Model				AM071KNLDEH/EU	AM090KNLDEH/EU
Power Supply			Φ, #, V, Hz	1,2,220-240,50	1,2,220-240,50
Mode			-	HP/HR	HP/HR
Performance	Capacity (Nominal)	Cooling	kW	7.10	9.00
			Btu/h	24,200	30,700
		Heating	kW	8.00	10.00
			Btu/h	27,300	34,100
Power	Power Input (Nominal)	Cooling	W	120.00	170.00
		Heating		120.00	170.00
	Current Input (Nominal)	Cooling	A	0.60	0.96
		Heating		0.60	0.96
Fan	Type		-	Sirocco Fan	Sirocco Fan
	Motor	Output x n	W	-	-
	Air Flow Rate	H/M/L (UL)	CMM	16.50/15.00/13.50	29.00/27.00/25.00
			l/s	275.00/250.00/225.00	483.33/450.00/416.67
	External Static Pressure	Min / Std / Max	mmAq	0.00/2.00/4.00	0.00/3.00/6.00
			Pa	0.00/19.61/39.23	0.00/29.42/58.84
Piping Connections	Liquid Pipe		Φ,mm	9.52	9.52
			Φ, inch	3/8"	3/8"
	Gas Pipe		Φ,mm	15.88	15.88
			Φ, inch	5/8"	5/8"
	Drain Pipe		Φ,mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
Field Wiring	Power Source Wire		mm^2	1.5 ~ 2.5	1.5 ~ 2.5
	Transmission Cable		mm^2	0.75 ~ 1.50	0.75 ~ 1.50
Refrigerant	Type		-	R410A	R410A
	Control Method		-	EEV INCLUDED	EEV INCLUDED
Sound Data	Sound Pressure Level	High / Mid / Low	dB(A)	38 / 36 / 33	37 / 36 / 34
	Sound Power Level	Cooling		57	66
Dimensions	Net Weight		kg	30.5	40.5
	Shipping Weight		kg	35.5	48.0
	Net Dimensions (W×H×D)		mm	1100 x 199 x 600	1300 x 295 x 690
	Shipping Dimensions (W×H×D)		mm	1350 x 280 x 710	1575 x 370 x 835
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	-	Drain Pump Included	Drain Pump Included
		Max. lifting Height / Displacement	mm / liter/h	750 / 24	750 / 24
	Air Filter		-	Filter Included	Filter Included

NOTE

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

* Heat Exchanger type : Fin & Tube (Fin : Al, Tube : Cu)

Slim Duct

Type				SLIM DUCT	SLIM DUCT	SLIM DUCT
Model				AM112KNLDEH/EU	AM128KNLDEH/EU	AM140KNLDEH/EU
Power Supply			Φ, #, 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	170.00	200.00	220.00
		Heating		170.00	200.00	220.00
	Current Input (Nominal)	Cooling	A	0.96	1.28	1.43
		Heating		0.96	1.28	1.43
Fan	Type		-	Sirocco Fan	Sirocco Fan	Sirocco Fan
	Motor	Output x n	W	-	-	-
	Air Flow Rate	H/M/L (UL)	CMM	31.20/29.00/27.00	34.00/32.00/30.00	36.00/34.00/32.00
			l/s	520.00/483.33/450.00	566.67/533.33/500.00	600.00/566.67/533.33
	External Static Pressure	Min / Std / Max	mmAq	0.00/3.00/6.00	0.00/3.00/6.00	0.00/3.00/6.00
			Pa	0.00/29.42/58.84	0.00/29.42/58.84	0.00/29.42/58.84
Piping Connections	Liquid Pipe		Φ,mm	9.52	9.52	9.52
			Φ, inch	3/8"	3/8"	3/8"
	Gas Pipe		Φ,mm	15.88	15.88	15.88
			Φ, inch	5/8"	5/8"	5/8"
	Drain Pipe		Φ,mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
Field Wiring	Power Source Wire		mm^2	1.5 ~ 2.5	1.5 ~ 2.5	1.5 ~ 2.5
	Transmission Cable		mm^2	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 Data	Sound Pressure Level	High / Mid / Low	dB(A)	37 / 36 / 34	37 / 36 / 34	39 / 38 / 36
	Sound Power Level	Cooling		66	66	68
Dimensions	Net Weight		kg	40.5	42.0	42.0
	Shipping Weight		kg	48.0	49.5	49.5
	Net Dimensions (W×H×D)		mm	1300 x 295 x 690	1300 x 295 x 690	1300 x 295 x 690
	Shipping Dimensions (W×H×D)		mm	1575 x 370 x 835	1575 x 370 x 835	1575 x 370 x 835
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	-	Drain Pump Included	Drain Pump Included	Drain Pump Included
		Max. lifting Height / Displacement	mm / liter/h	750 / 24	750 / 24	750 / 24
	Air Filter		-	Filter Included	Filter Included	Filter Included

NOTE

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

* Heat Exchanger type : Fin & Tube (Fin : Al, Tube : Cu)

2 Capacity Table

Slim Duct

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
AM017F-NLDEH/EU	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
AM022F-NDEH/EU	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
AM028F-NDEH/EU	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
AM036F-NDEH/EU	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
AM045*-NDEH/EU	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
AM056*-NDEH/EU	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

Cooling

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

Model	Outdoor temperature (ºC, DB)	Indoor temperature (ºC, WB)													
		20 (ºC, DB)		23 (ºC, DB)		26 (ºC, DB)		27 (ºC, DB)		28 (ºC, DB)		30 (ºC, DB)		32 (ºC, DB)	
		14 (ºC, WB)		16 (ºC, WB)		18 (ºC, WB)		19 (ºC, WB)		20 (ºC, WB)		22 (ºC, WB)		24 (ºC, WB)	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
AM071*-NDEH/EU	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
AM090*-NDEH/EU	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
AM112*-NDEH/EU	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
AM128*-NDEH/EU	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
AM140*-NDEH/EU	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 (Home)

Cooling

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

Model	Outdoor temperature (ºC, DB)	Indoor temperature													
		20 (ºC, DB)		23 (ºC, DB)		26 (ºC, DB)		27 (ºC, DB)		28 (ºC, DB)		30 (ºC, DB)		32 (ºC, DB)	
		14 (ºC, WB)		16 (ºC, WB)		18 (ºC, WB)		19 (ºC, WB)		20 (ºC, WB)		22 (ºC, WB)		24 (ºC, WB)	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
AM017KN LDEH/EU	10	1.2	1.0	1.4	1.1	1.6	1.2	1.7	1.2	1.8	1.2	1.9	1.2	2.0	1.1
	12	1.2	1.0	1.4	1.1	1.6	1.2	1.7	1.2	1.8	1.2	1.9	1.2	2.0	1.1
	14	1.2	1.0	1.4	1.1	1.6	1.2	1.7	1.2	1.8	1.2	1.9	1.2	2.0	1.1
	16	1.2	1.0	1.4	1.1	1.6	1.2	1.7	1.2	1.8	1.2	1.8	1.2	2.0	1.1
	18	1.2	1.0	1.4	1.1	1.6	1.2	1.7	1.2	1.8	1.2	1.8	1.2	2.0	1.1
	20	1.2	1.0	1.4	1.1	1.6	1.2	1.7	1.2	1.8	1.2	1.8	1.2	2.0	1.1
	21	1.2	1.0	1.4	1.1	1.6	1.2	1.7	1.2	1.8	1.2	1.8	1.2	2.0	1.1
	23	1.2	1.0	1.4	1.1	1.6	1.2	1.7	1.2	1.8	1.2	1.8	1.2	2.0	1.1
	25	1.2	1.0	1.4	1.1	1.6	1.2	1.7	1.2	1.8	1.2	1.8	1.2	2.0	1.1
	27	1.2	1.0	1.4	1.1	1.6	1.2	1.7	1.2	1.8	1.2	1.8	1.2	2.0	1.1
	29	1.2	1.0	1.4	1.1	1.6	1.2	1.7	1.2	1.8	1.2	1.8	1.2	2.0	1.1
	31	1.2	1.0	1.4	1.1	1.6	1.2	1.7	1.2	1.8	1.2	1.8	1.2	2.0	1.1
	33	1.2	1.0	1.4	1.1	1.6	1.2	1.7	1.2	1.8	1.2	1.8	1.2	2.0	1.1
	35	1.2	1.0	1.4	1.1	1.6	1.2	1.7	1.2	1.8	1.2	1.8	1.2	2.0	1.1
	37	1.2	1.0	1.4	1.1	1.6	1.2	1.7	1.2	1.8	1.2	1.8	1.2	2.0	1.1
	39	1.2	1.0	1.4	1.1	1.6	1.2	1.7	1.2	1.8	1.2	1.8	1.2	2.0	1.1
AM022KN LDEH/EU	10	1.5	1.1	1.8	1.3	2.1	1.5	2.2	1.5	2.3	1.5	2.5	1.6	2.6	1.4
	12	1.5	1.1	1.8	1.3	2.1	1.5	2.2	1.5	2.3	1.5	2.5	1.6	2.6	1.4
	14	1.5	1.1	1.8	1.3	2.1	1.5	2.2	1.5	2.3	1.5	2.5	1.6	2.6	1.4
	16	1.5	1.1	1.8	1.3	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.6	1.4
	18	1.5	1.1	1.8	1.3	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.6	1.4
	20	1.5	1.1	1.8	1.3	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.6	1.4
	21	1.5	1.1	1.8	1.3	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.6	1.4
	23	1.5	1.1	1.8	1.3	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.6	1.4
	25	1.5	1.1	1.8	1.3	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.6	1.4
	27	1.5	1.1	1.8	1.3	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.6	1.4
	29	1.5	1.1	1.8	1.3	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.6	1.4
	31	1.5	1.1	1.8	1.3	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.6	1.4
	33	1.5	1.1	1.8	1.3	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.6	1.4
	35	1.5	1.1	1.8	1.3	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.6	1.4
	37	1.5	1.1	1.8	1.3	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.6	1.4
	39	1.5	1.1	1.8	1.3	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.5	1.3
AM028KN LDEH/EU	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
AM036KN LDEH/EU	10	2.5	1.9	2.9	2.2	3.4	2.4	3.6	2.5	3.7	2.5	4.0	2.5	4.3	2.4
	12	2.5	1.9	2.9	2.2	3.4	2.4	3.6	2.5	3.7	2.5	4.0	2.5	4.3	2.4
	14	2.5	1.9	2.9	2.2	3.4	2.4	3.6	2.5	3.7	2.5	4.0	2.5	4.3	2.4
	16	2.5	1.9	2.9	2.2	3.4	2.4	3.6	2.5	3.7	2.5	4.0	2.5	4.3	2.4
	18	2.5	1.9	2.9	2.2	3.4	2.4	3.6	2.5	3.7	2.5	4.0	2.5	4.2	2.3
	20	2.5	1.9	2.9	2.2	3.4	2.4	3.6	2.5	3.7	2.5	4.0	2.5	4.2	2.3
	21	2.5	1.9	2.9	2.2	3.4	2.4	3.6	2.5	3.7	2.5	4.0	2.5	4.2	2.3
	23	2.5	1.9	2.9	2.2	3.4	2.4	3.6	2.5	3.7	2.5	4.0	2.5	4.2	2.3
	25	2.5	1.9	2.9	2.2	3.4	2.4	3.6	2.5	3.7	2.5	4.0	2.5	4.2	2.3
	27	2.5	1.9	2.9	2.2	3.4	2.4	3.6	2.5	3.7	2.5	4.0	2.5	4.2	2.3
	29	2.5	1.9	2.9	2.2	3.4	2.4	3.6	2.5	3.7	2.5	4.0	2.5	4.2	2.3
	31	2.5	1.9	2.9	2.2	3.4	2.4	3.6	2.5	3.7	2.5	4.0	2.5	4.2	2.3
	33	2.5	1.9	2.9	2.2	3.4	2.4	3.6	2.5	3.7	2.5	4.0	2.5	4.2	2.3
	35	2.5	1.9	2.9	2.2	3.4	2.4	3.6	2.5	3.7	2.5	4.0	2.5	4.2	2.3
	37	2.5	1.9	2.9	2.2	3.4	2.4	3.6	2.5	3.7	2.5	3.9	2.4	4.2	2.3
	39	2.5	1.9	2.9	2.2	3.4	2.4	3.6	2.5	3.7	2.5	3.9	2.4	4.1	2.2

Slim Duct

Heating

TC : Total Capacity(kW)

Model	Outdoor temperature (ºC)		Indoor temperature (ºC, DB)				
			16.0	18.0	20.0	22.0	24.0
			TC	TC	TC	TC	TC
	DB	WB	kW	kW	kW	kW	kW
AM017F-NDEH/EU	-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
AM022F-NDEH/EU	-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
AM028F-NDEH/EU	-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
AM036F-NDEH/EU	-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
AM045*-NDEH/EU	-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
AM056*-NDEH/EU	-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

Slim Duct

Heating

TC : Total Capacity(kW)

Model	Outdoor temperature (ºC)		Indoor temperature (ºC, DB)				
			16.0	18.0	20.0	22.0	24.0
			TC	TC	TC	TC	TC
	DB	WB	kW	kW	kW	kW	kW
AM071*-NDEH/EU	-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
AM090*-NDEH/EU	-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
AM112*-NDEH/EU	-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
AM128*-NDEH/EU	-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
AM140*-NDEH/EU	-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

Slim Duct (Home)

Heating

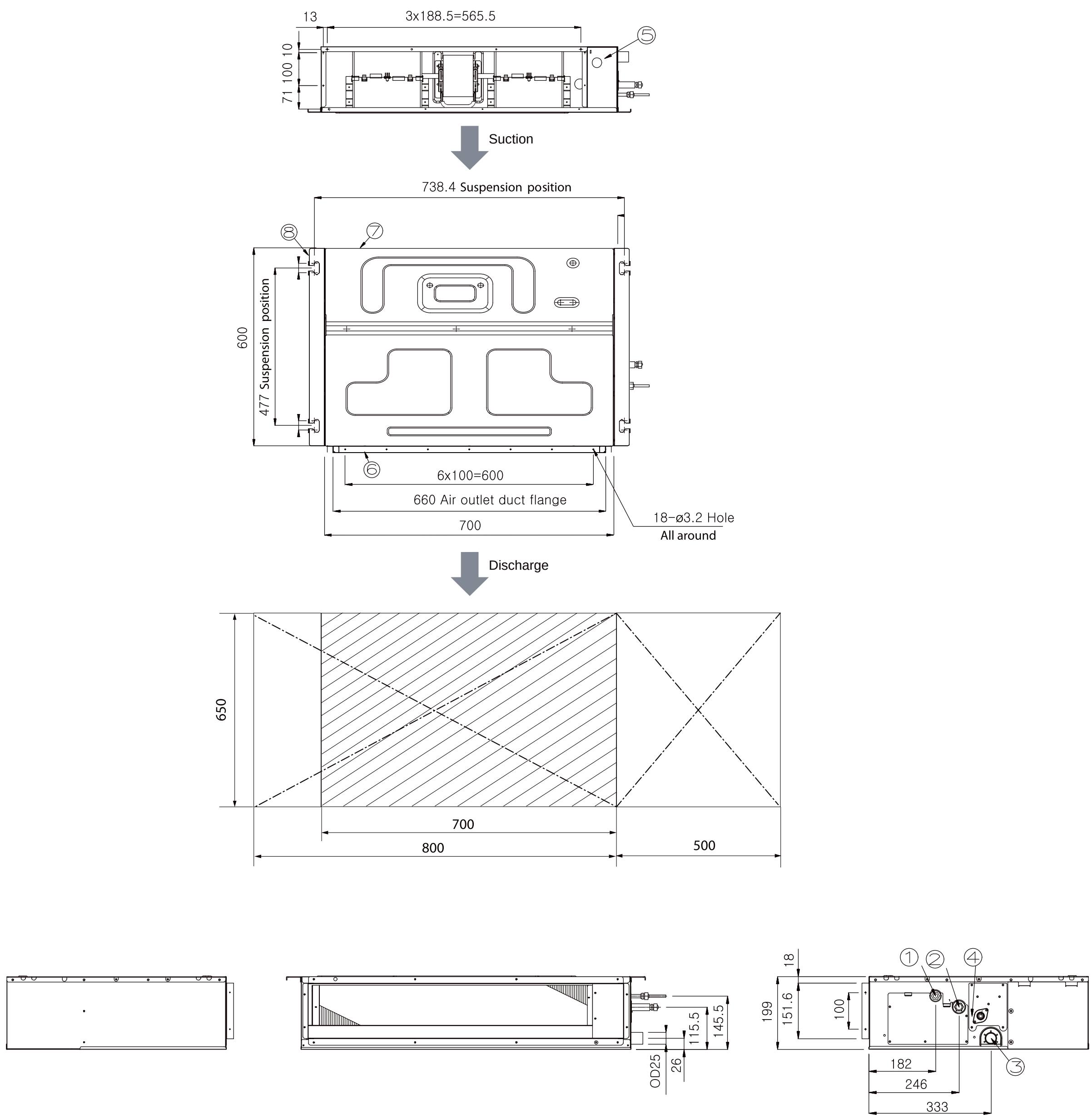
TC : Total Capacity(kW)

Model	Outdoor temperature (ºC)		Indoor temperature (ºC, DB)				
			16	18	20	22	24
	DB	WB	TC	TC	TC	TC	TC
AM017KN LDEH/EU	-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	1.7	1.7	1.7	1.5	1.5
	-5	-6	1.8	1.7	1.7	1.7	1.7
	-3	-4	1.9	1.9	1.8	1.7	1.7
	0	-1	2.0	1.9	1.9	1.7	1.7
	3	2.2	2.1	2.0	1.9	1.7	1.7
	5	4.1	2.1	2.1	1.9	1.7	1.7
	7	6	2.1	2.1	1.9	1.7	1.7
	9	7.9	2.3	2.1	1.9	1.7	1.7
	11	9.8	2.3	2.1	1.9	1.7	1.7
	13	12	2.3	2.1	1.9	1.7	1.7
	15	14	2.3	2.1	1.9	1.7	1.7
AM022KN LDEH/EU	-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
AM028KN LDEH/EU	-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
AM036KN LDEH/EU	-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

Slim Duct

AM017/022/028/036FNLDEH/EU

[Unit : mm]



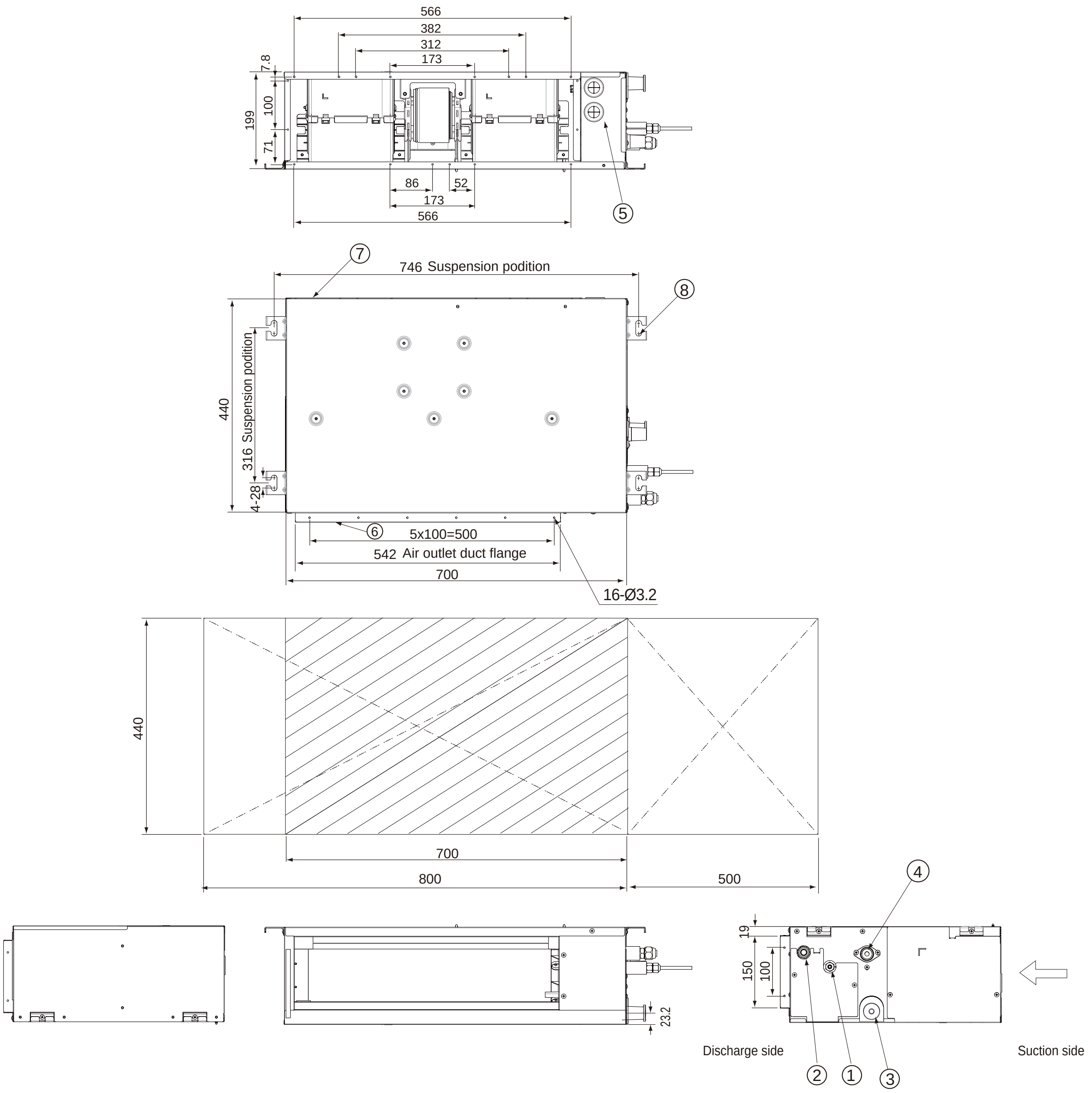
No.	Name	Description
1	Liquid pipe connection	ø6.35
2	Gas pipe connection	ø12.70
3	Drain pipe connection without drain pump	VP25 (OD ø32,ID ø25)
4	Drain pipe connection with drain pump	VP25 (OD ø32,ID ø25)
5	Power supply/Communication connection	-
6	Air discharge grille flange	-
7	Return air side	-
8	Hook	ø9.52 or M10

3 Dimensional Drawing

Slim Duct (Home)

AM017/022/028/036KNLDEH/EU

[Unit : mm]



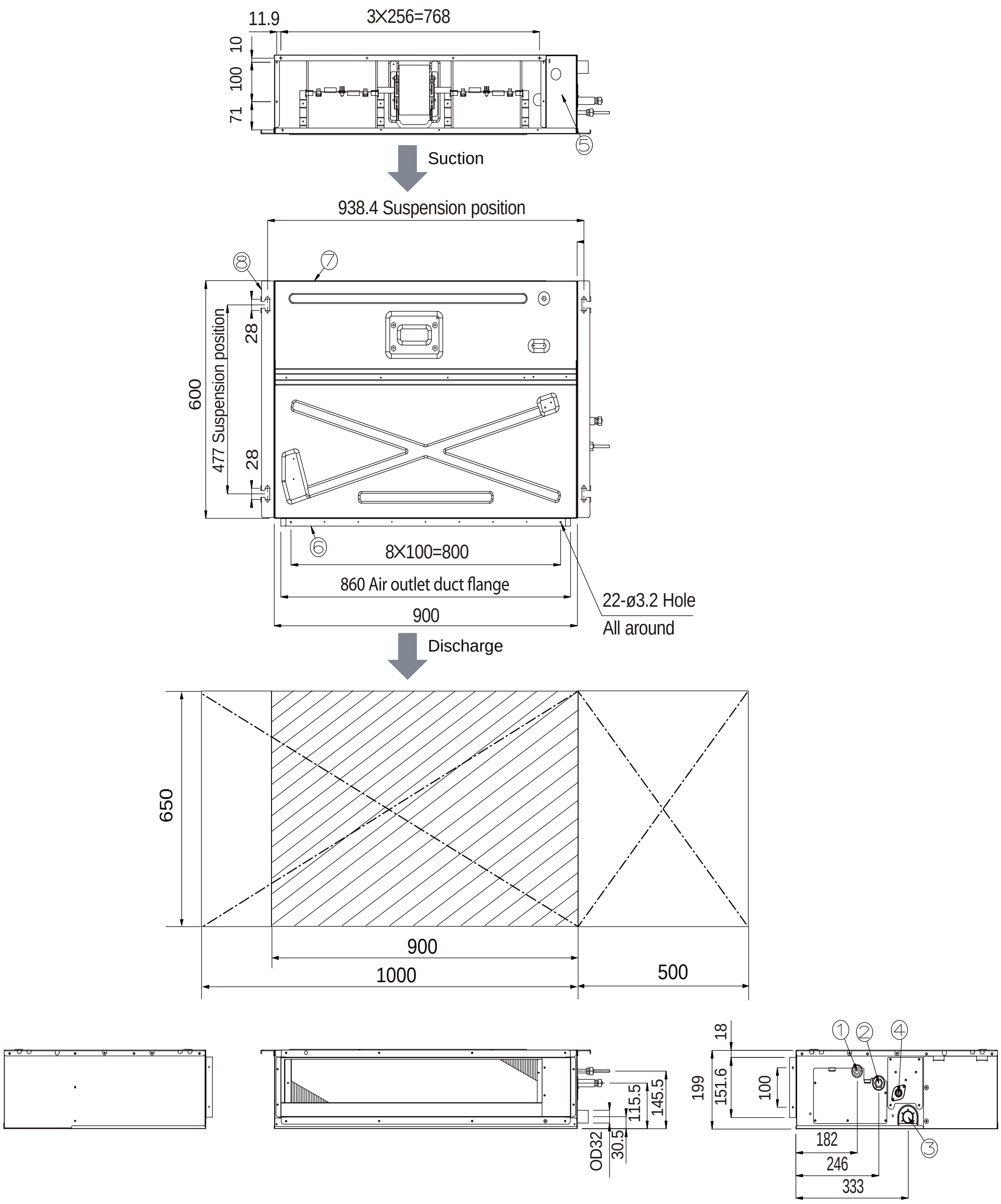
No.	Name	Description
1	Liquid pipe connection	ø6.35
2	Gas pipe connection	ø12.70
3	Drain pipe connection without drain pump	VP25 (OD ø32,ID ø25)
4	Drain pipe connection with drain pump	VP25 (OD ø32,ID ø25)
5	Power supply/Communication connection	-
6	Air discharge grille flange	-
7	Return air side	-
8	Hook	ø9.52 or M10

3 Dimensional Drawing

Slim Duct

AM045/056*NLDEH/EU

[Unit : mm]

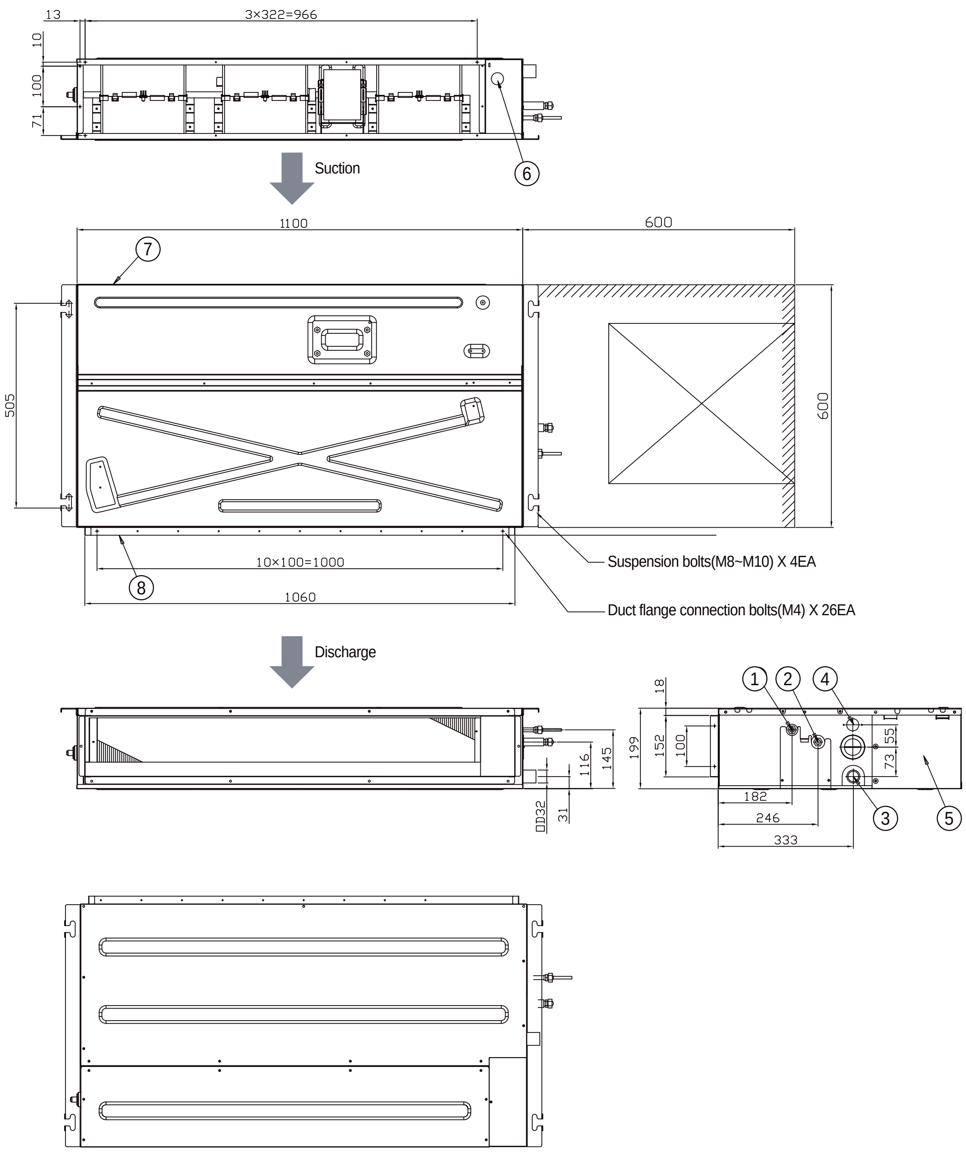


No.	Name	Description	
		4.5kW	5.6kW
1	Liquid pipe connection	Ø6.35 Flare	
2	Gas pipe connection	Ø12.70 Flare	
3	Drain pipe connection without drain pump	VP25 (OD 32, ID 25)	
4	Drain pipe connection with drain pump	VP25 (OD 32, ID 25)	
5	Power supply/Communication connection	-	
6	Air discharge grille flange	-	
7	Return air side	-	
8	Hook	-	

Slim Duct

AM071*NLDEH/EU

[Unit : mm]



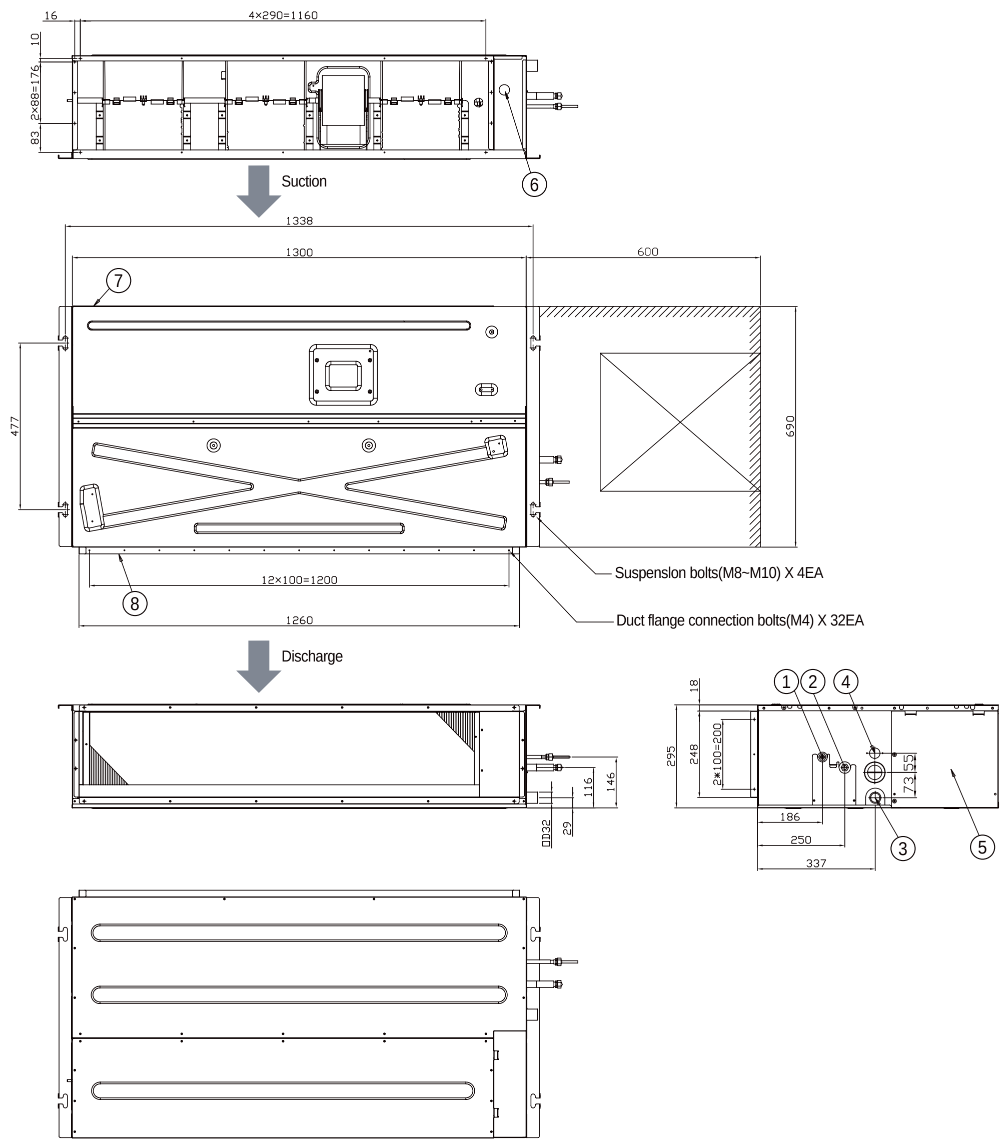
No.	Name	Description
		7.1kW
1	Liquid pipe connection	Ø9.52 Flare
2	Gas pipe connection	Ø15.88 Flare
3	Drain pipe connection without drain pump	VP25 (OD 32, ID 25)
4	Drain pipe connection with drain pump	VP25 (OD 32, ID 25)
5	Control unit	
6	Conduit for power supply & communication wiring	
7	Return air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

3 Dimensional Drawing

Slim Duct

AM090/112/128/140*NLDEH/EU

[Unit : mm]

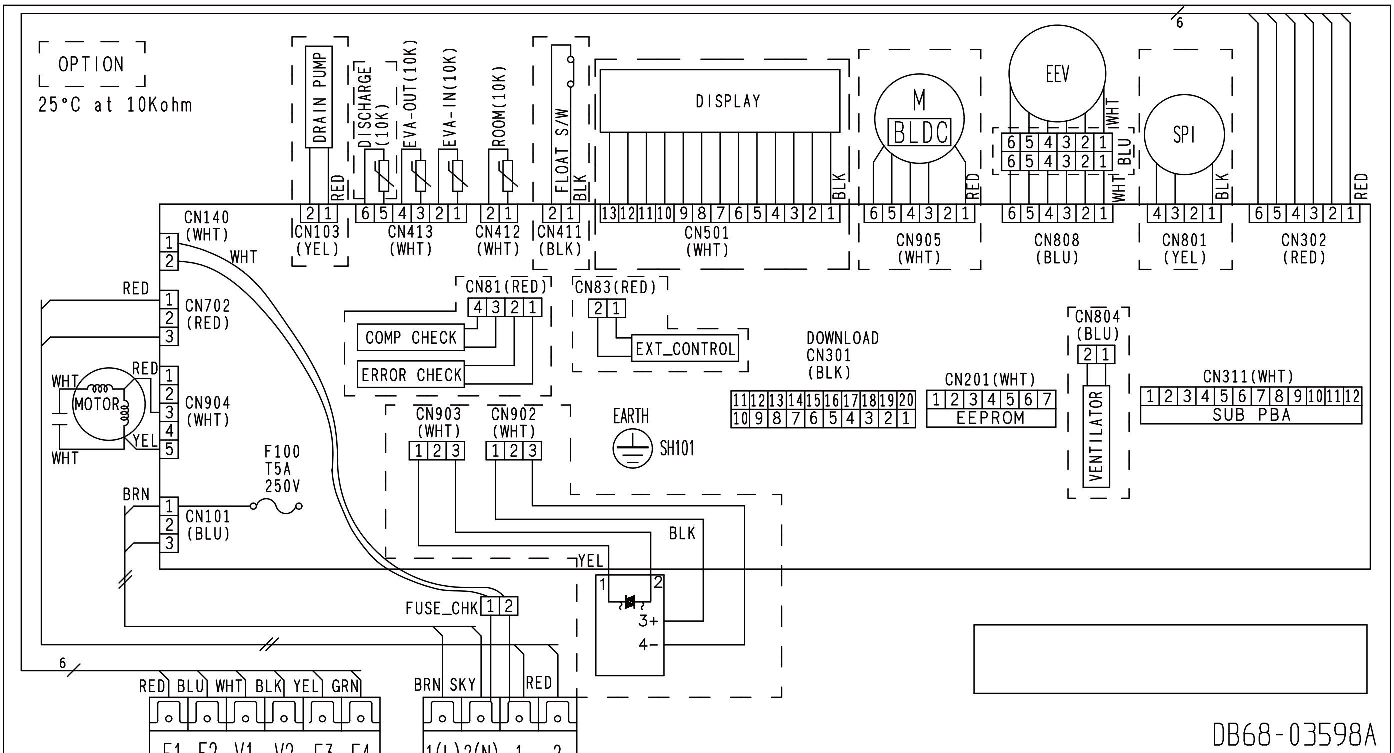


No.	Name	Description			
		9.0kW	11.2kW	12.8kW	14.0kW
1	Liquid pipe connection	Ø9.52 Flare			
2	Gas pipe connection	Ø15.88 Flare			
3	Drain pipe connection without drain pump	VP25 (OD 32, ID 25)			
4	Drain pipe connection with drain pump	VP25 (OD 32, ID 25)			
5	Control unit	-			
6	Conduit for power supply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

Electrical Wiring Diagram

Slim Duct

AM017/022/028/036/045/056/071FNLDEH/EU, AM045/056/071KNLDEH/EU



LED LAMP DISPLAY					LED DISPLAY FOR ERROR DETECTION (● ON ◑ FLICKERING X OFF)
OPERATION	DEFROST	TIMER	FAN	FILTER	
X	X	◑	X	X	ERROR OF TEMPERATURE SENSOR IN THE INDOOR UNIT(OPEN/SHORT)
◑	X	◑	X	X	ERROR OF EVA IN,OUT,DISCHARGE SENSOR IN THE INDOOR UNIT(OPEN/SHORT)
X	X	X	◑	X	ERROR OF INDOOR FAN
◑	X	X	◑	X	ERROR OF OUTDOOR SENSOR(OUTDOOR TEMP./COND/DISCHARGE)
X	X	◑	◑	X	NO COMMUNICATION FOR 2 MINUTES BETWEEN INDOOR AND OUTDOOR UNIT
X	X	◑	◑	◑	ERROR OF OUTDOOR UNIT/SELF-DIAGNOSIS (Check error code at outdoor unit's or solution display)
X	X	X	◑	◑	DETECTION OF THE FLOAT SWITCH
◑	◑	◑	◑	◑	EEPROM ERROR/EEPROM OPTION ERROR
X	X	X	X	◑	NO MATCH BETWEEN OUTDOOR AND INDOOR

USE COPPER SUPPLY WIRES.
UTILISER DES FILS D'ALIMENTATION EN CUIVRE.

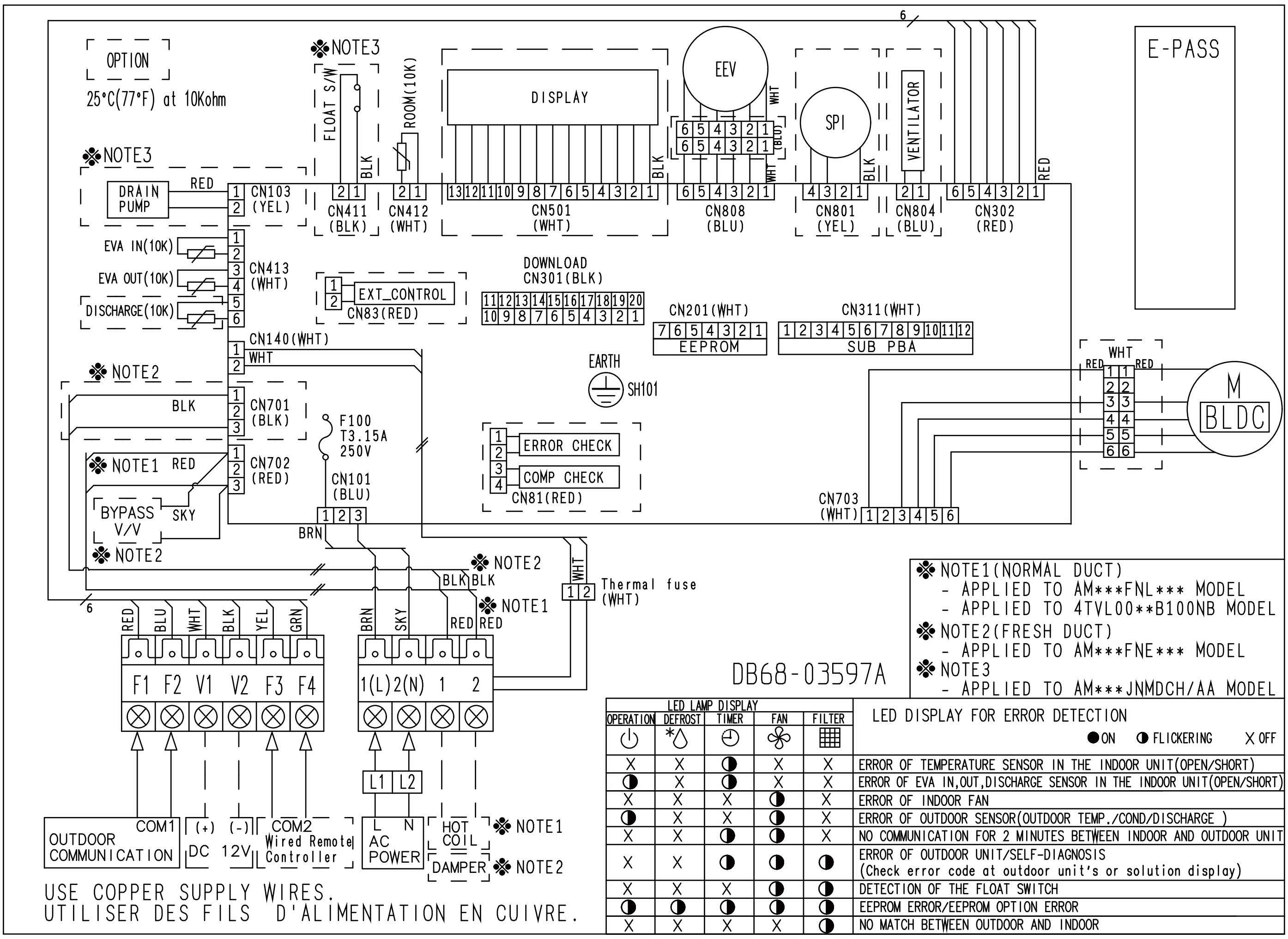
ROOM(10K)	Thermistor ROOM(10K)	EEV	electronic expansion valve	EVA-IN(10K)	Thermistor EVA IN(10K)
DISCHARGE(10K)	Thermistor DISCHARGE(10K)	SPI	S-Plasma ion	EVA-OUT(10K)	Thermistor EVA OUT(10K)

NOTE

1. This wiring diagram applies only to the indoor unit.
2. Symbols show as follow;
   BLK : black, RED : red, BLU : blue, WHT:white, YEL : yellow, BRN : brown, SKY : sky-blue, GRN : green
3. For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remotecontroller transmission F3-F4.
4. ⏚ : Protective earth(screw), ☐☐☐☐ : Connector, n/ : The wire quantity

Slim Duct / Slim Duct Home

AM090/112/128/140FNLDEH/EU, AM017/022/028/036/090/112/128/140KNLDEH/EU



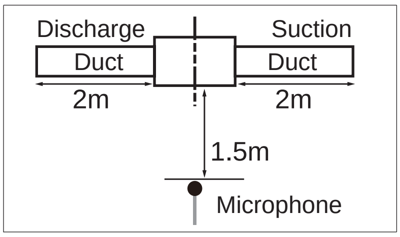
M [BLDC]	Motor (BLDC)	EEV	electronic expansion valve	EVA-IN(10K)	Thermistor EVA IN(10K)
DISCHARGE(10K)	Thermistor DISCHARGE(10K)	SPI	S-Plasma ion	EVA-OUT(10K)	Thermistor EVA OUT(10K)

NOTE

1. This wiring diagram applies only to the indoor unit.
2. Symbols show as follow;
   BLK : black, RED : red, BLU : blue, WHT:white, YEL : yellow, BRN : brown, SKY : sky-blue, GRN : green
3. For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remotecontroller transmission F3-F4.
4. : Protective earth(screw), : Connector, n : The wire quantity

5 Sound Pressure Level

Slim Duct



Unit: dB(A)

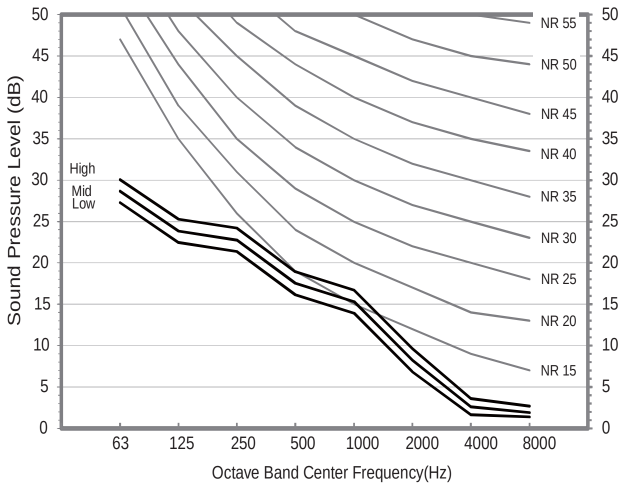
Model	High	Low
AM017FNLDEH/EU	23	20
AM022FNLDEH/EU	26	21
AM028FNLDEH/EU	28	23
AM036FNLDEH/EU	32	27

Note

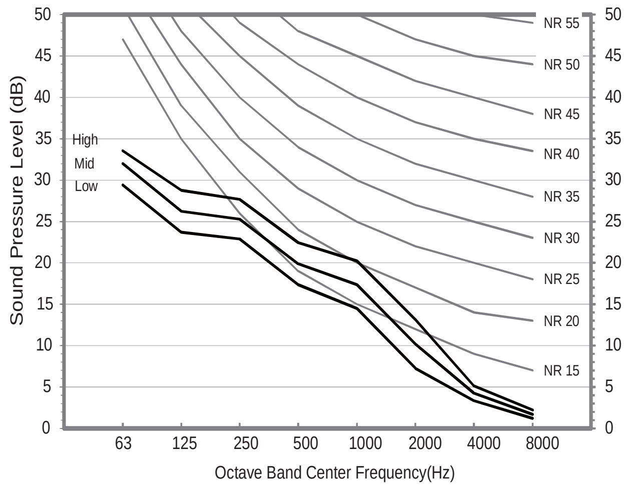
Specifications may be subject to change without prior notice.
Sound pressure level is obtained in an anechoic room.
Sound pressure level is a relative value, depending on the distance and acoustic environment.
Sound pressure level may differ depending on operation condition.
dBA = A-weighted sound pressure level
Reference acoustic pressure 0 dB= 20 uPa

NR curve

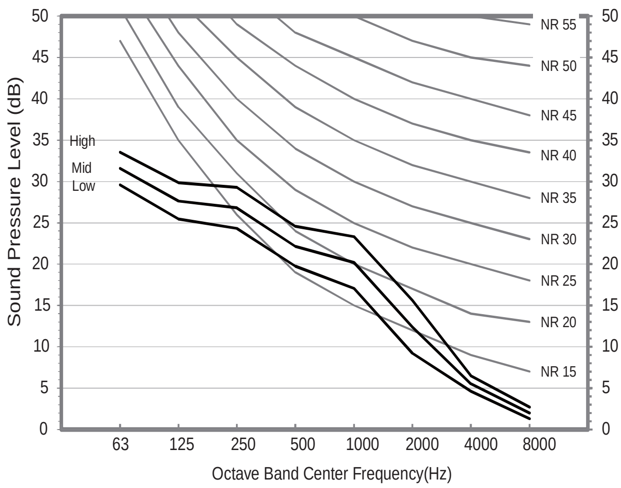
1) AM017FNLDEH/EU



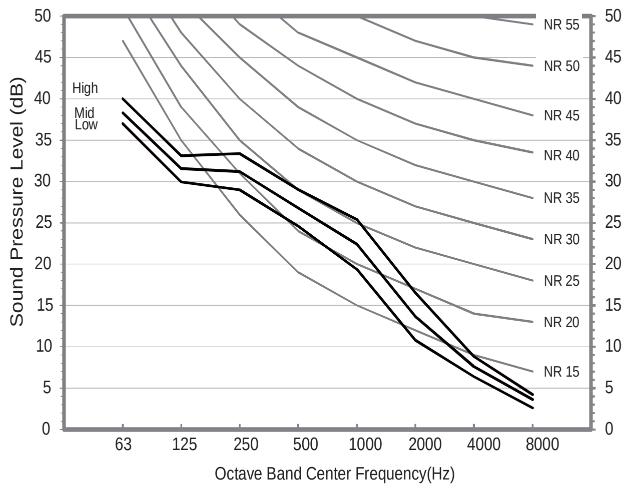
2) AM022FNLDEH/EU



3) AM028FNLDEH/EU

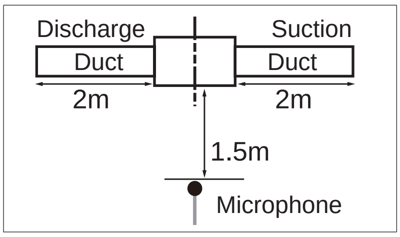


4) AM036FNLDEH/EU



Sound Pressure Level

Slim Duct (Home)



Unit: dB(A)

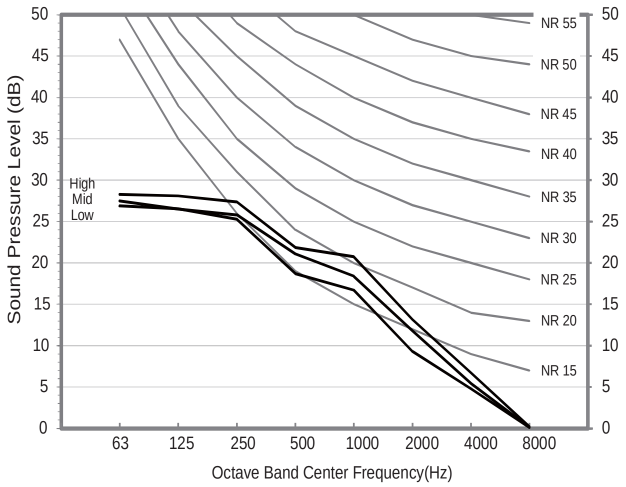
Model	High	Low
AM017KNLDEH/EU	25	19
AM022KNLDEH/EU	26	19
AM028KNLDEH/EU	28	19
AM036KNLDEH/EU	31	20

Note

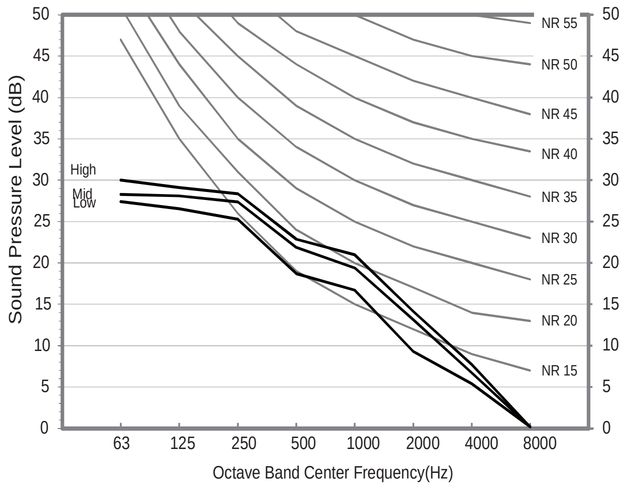
Specifications may be subject to change without prior notice.
Sound pressure level is obtained in an anechoic room.
Sound pressure level is a relative value, depending on the distance and acoustic environment.
Sound pressure level may differ depending on operation condition.
dBA = A-weighted sound pressure level
Reference acoustic pressure 0 dB= 20 uPa

NR curve

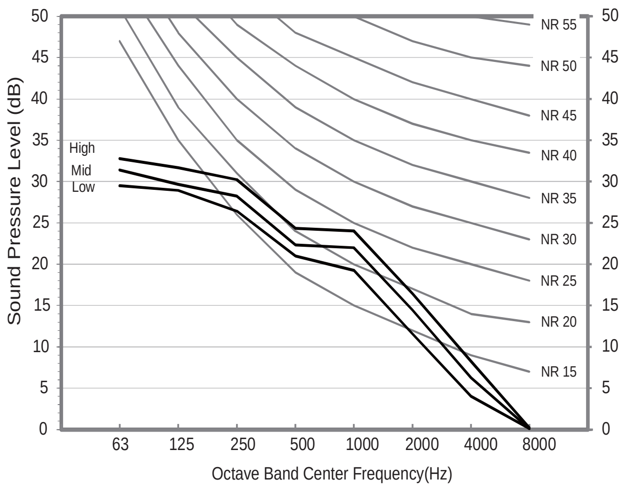
1) AM017KNLDEH/EU



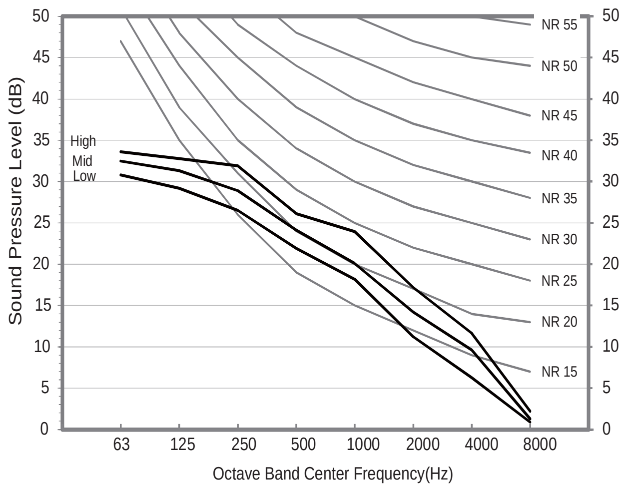
2) AM022KNLDEH/EU



3) AM028KNLDEH/EU

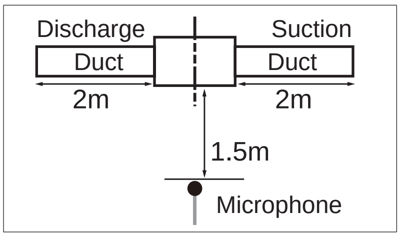


4) AM036KNLDEH/EU



5 Sound Pressure Level

Slim Duct



Unit: dB(A)

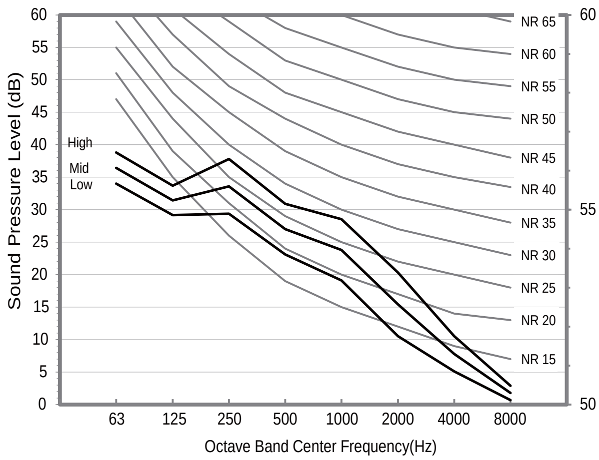
Model	High	Low
AM045*NLDEH***	35	26
AM056*NLDEH***	36	31
AM071*NLDEH***	38	33
AM090*NLDEH***	37	34

Note

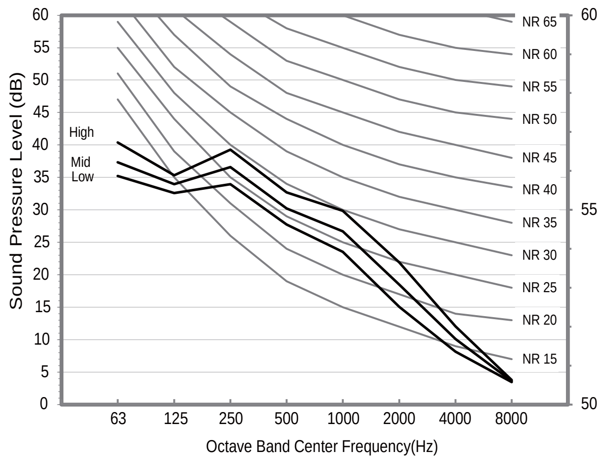
Specifications may be subject to change without prior notice.
Sound pressure level is obtained in an anechoic room.
Sound pressure level is a relative value, depending on the distance and acoustic environment.
Sound pressure level may differ depending on operation condition.
dBA = A-weighted sound pressure level
Reference acoustic pressure 0 dB= 20 uPa

NR curve

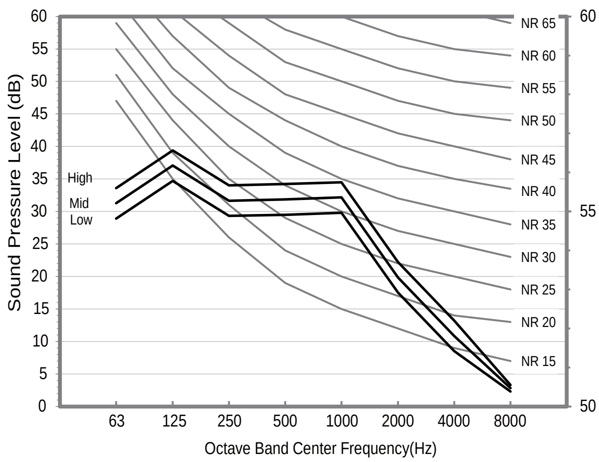
1) AM045*NLDEH***



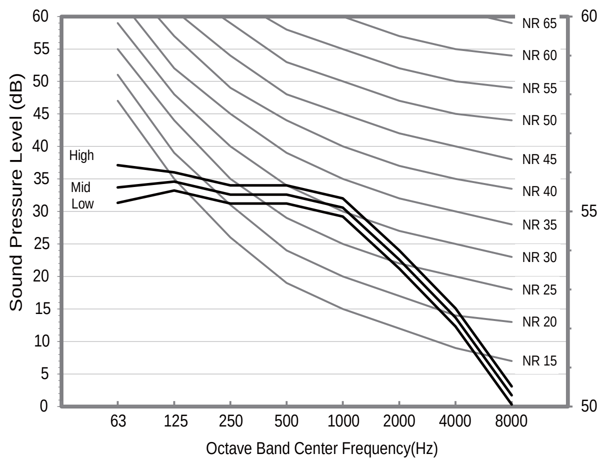
2) AM056*NLDEH***



3) AM071*NLDEH***

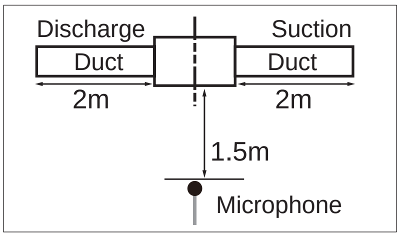


4) AM090*NLDEH***



5 Sound Pressure Level

Slim Duct



Unit: dB(A)

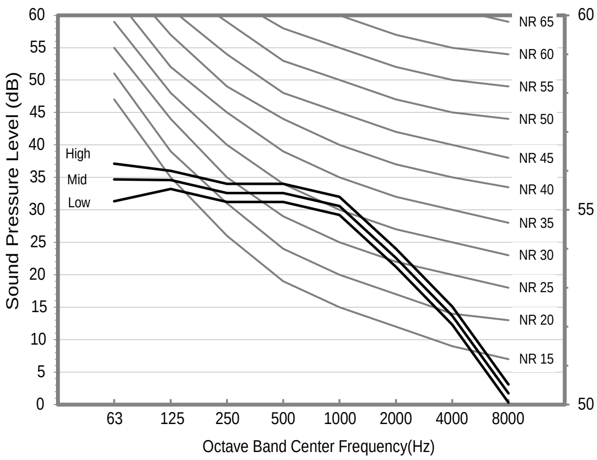
Model	High	Low
AM112*NLDEH***	37	34
AM128*NLDEH***	37	34
AM140*NLDEH***	39	36

Note

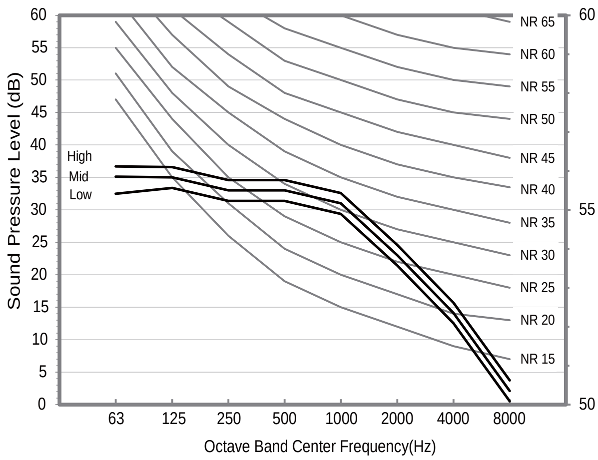
Specifications may be subject to change without prior notice.
Sound pressure level is obtained in an anechoic room.
Sound pressure level is a relative value, depending on the distance and acoustic environment.
Sound pressure level may differ depending on operation condition.
dBA = A-weighted sound pressure level
Reference acoustic pressure 0 dB= 20 uPa

NR curve

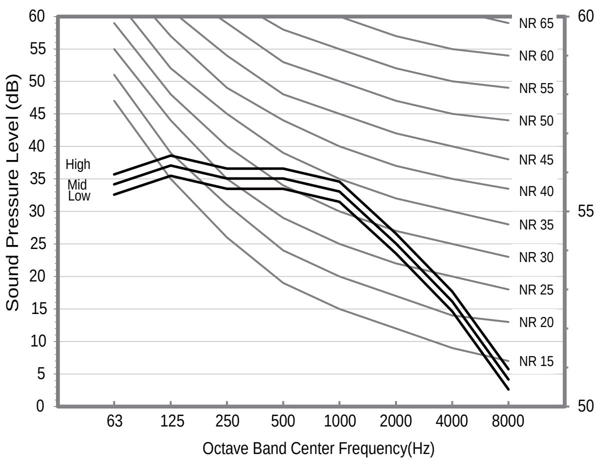
5) AM112*NLDEH***



6) AM128*NLDEH***



7) AM140*NLDEH***



6 Sound Power Level

Slim Duct

Unit: dB(A)

Model	Power
AM017FNLDEH/EU	49
AM022FNLDEH/EU	49
AM028FNLDEH/EU	49
AM036FNLDEH/EU	51

Note

. Specifications may be subject to change without prior notice.

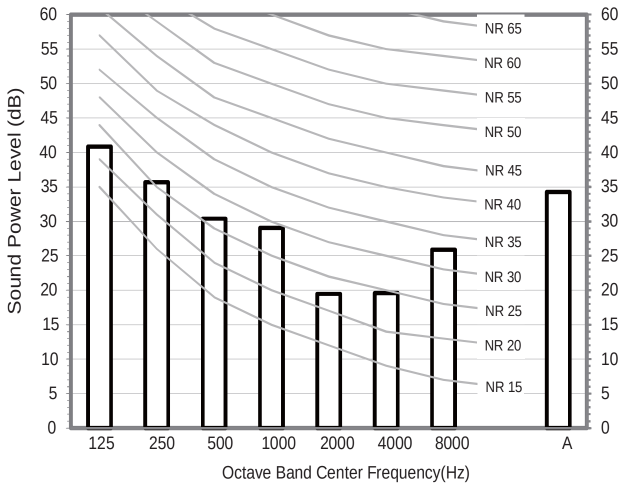
. Sound power level is an absolute value that a sound source generates.

. dBA = A-weighted sound power level.

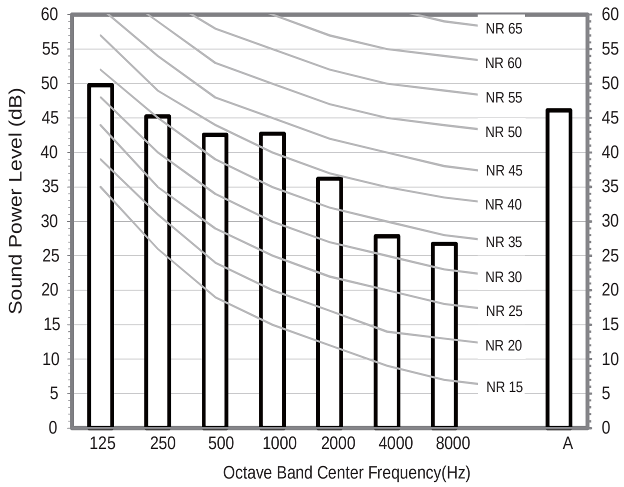
. Reference power : 1pW.

. Measured according to ISO 3741

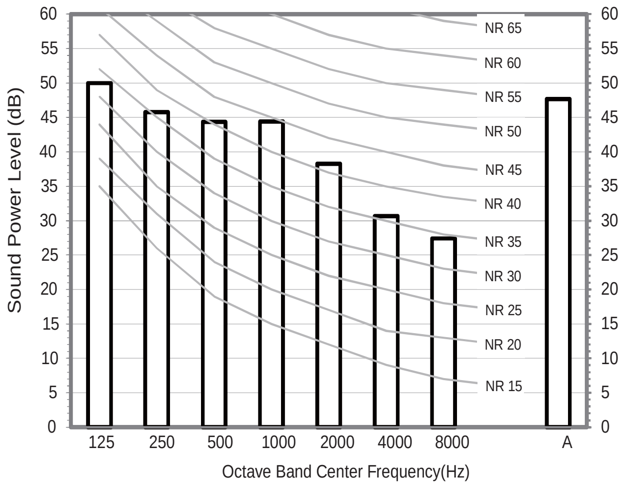
1) AM017FNLDEH/EU



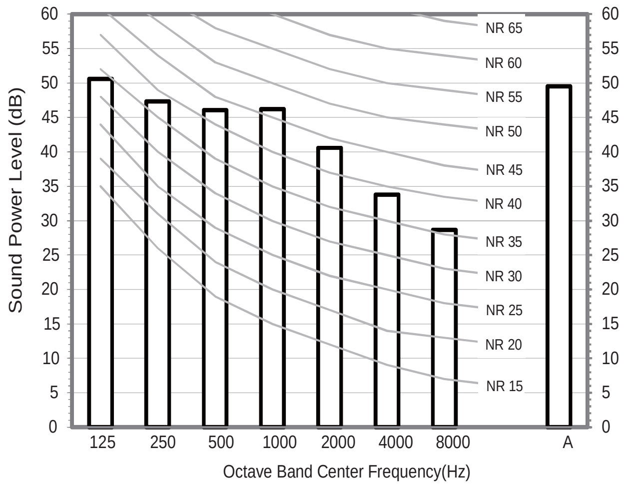
2) AM022FNLDEH/EU



3) AM028FNLDEH/EU



4) AM036FNLDEH/EU



6 Sound Power Level

Slim Duct (Home)

Unit: dB(A)

Model	Power
AM017KNLDEH/EU	40
AM022KNLDEH/EU	42
AM028KNLDEH/EU	44
AM036KNLDEH/EU	46

Note

. Specifications may be subject to change without prior notice.

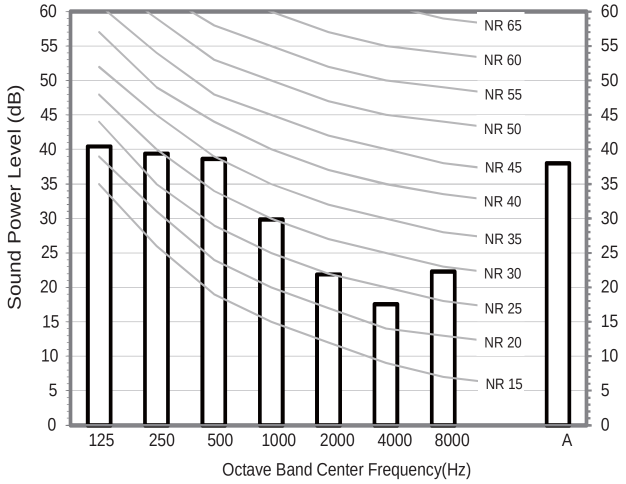
. Sound power level is an absolute value that a sound source generates.

. dBA = A-weighted sound power level.

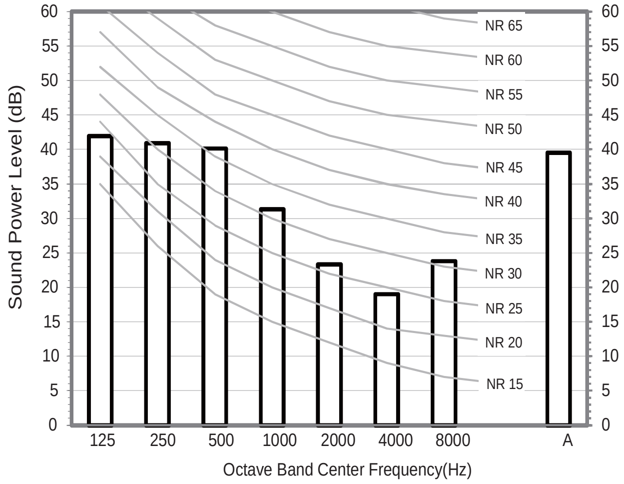
. Reference power : 1pW.

. Measured according to ISO 3741

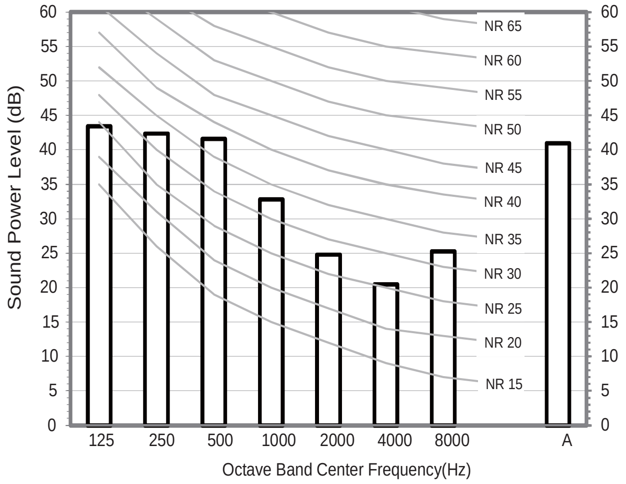
1) AM017KNLDEH/EU



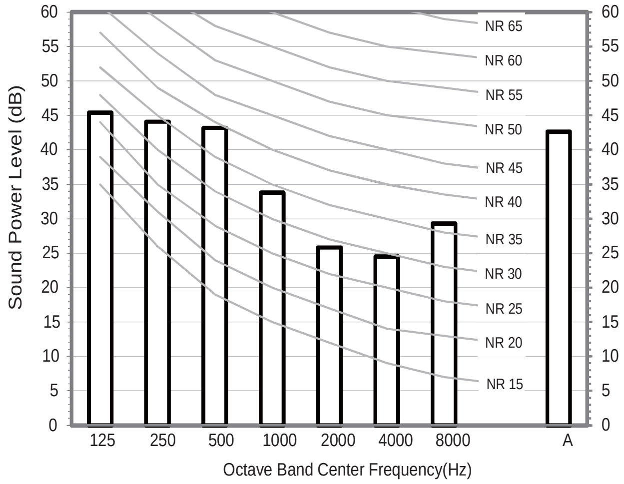
2) AM022KNLDEH/EU



3) AM028KNLDEH/EU



4) AM036KNLDEH/EU



Sound Power Level

Slim Duct

Unit: dB(A)

Model	Power
AM045*NLDEH/EU	53
AM056*NLDEH/EU	55
AM071*NLDEH/EU	57
AM090*NLDEH/EU	66

Note

. Specifications may be subject to change without prior notice.

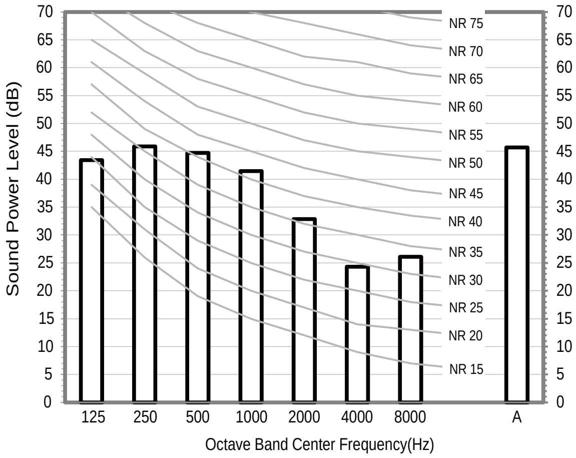
. Sound power level is an absolute value that a sound source generates.

. dBA = A-weighted sound power level.

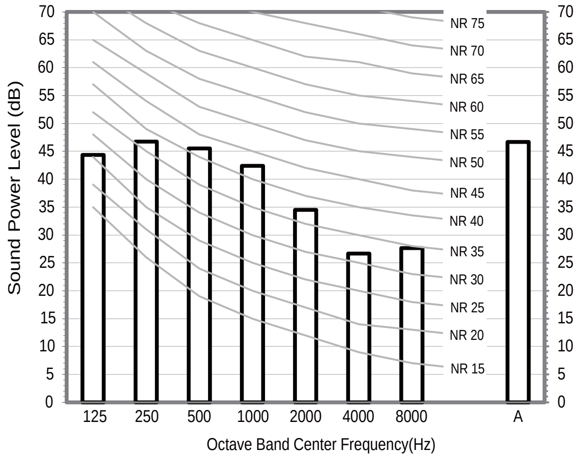
. Reference power : 1pW.

. Measured according to ISO 3741

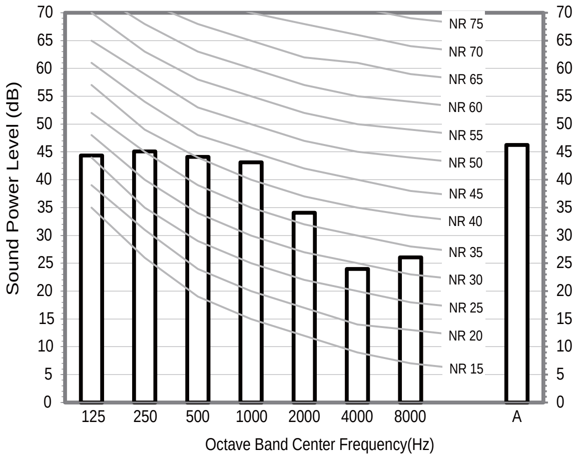
1) AM045*NLDEH***



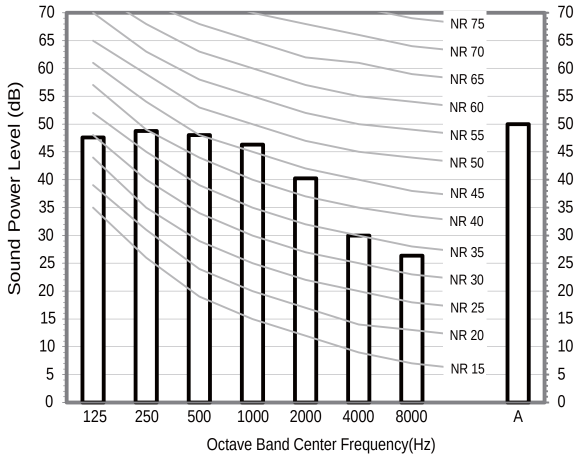
2) AM056*NLDEH***



3) AM071*NLDEH***



4) AM090*NLDEH***



6 Sound Power Level

Slim Duct

Unit: dB(A)

Model	Power
AM112*NLDEH/EU	66
AM128*NLDEH/EU	66
AM140*NLDEH/EU	68

Note

. Specifications may be subject to change without prior notice.

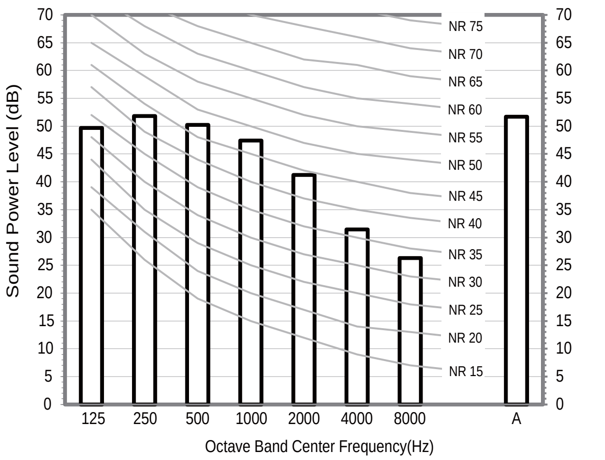
. Sound power level is an absolute value that a sound source generates.

. dBA = A-weighted sound power level.

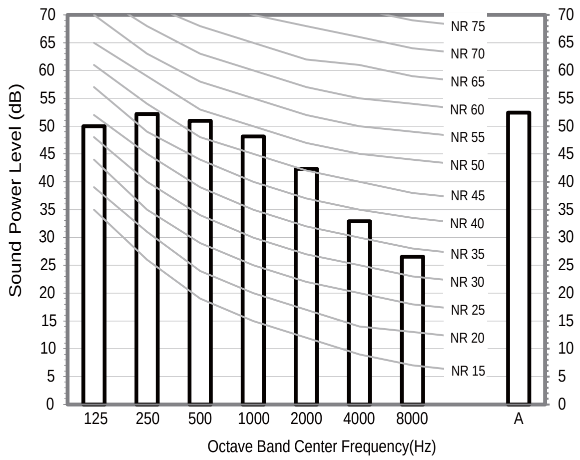
. Reference power : 1pW.

. Measured according to ISO 3741

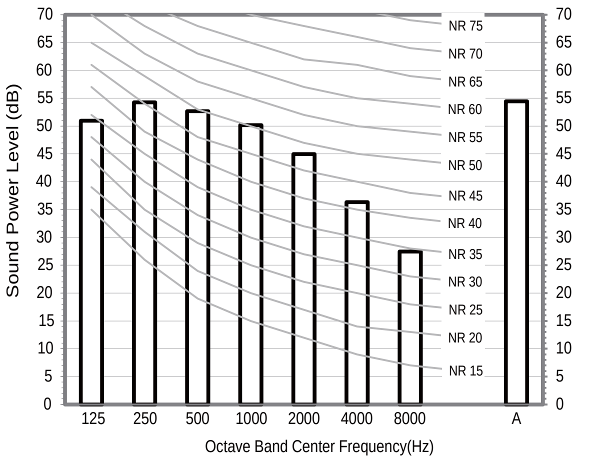
5) AM112*NLDEH***



6) AM128*NLDEH***



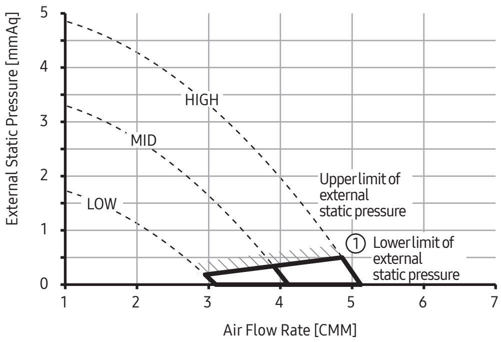
7) AM140*NLDEH***



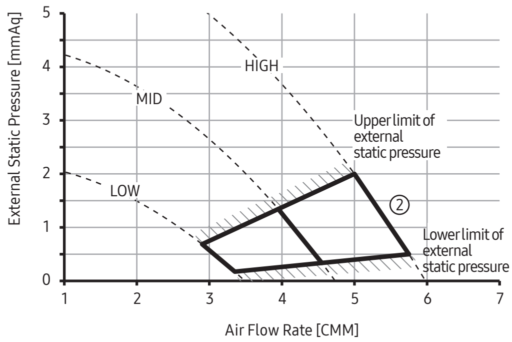
Slim Duct

1) AM017FNLDEH/EU

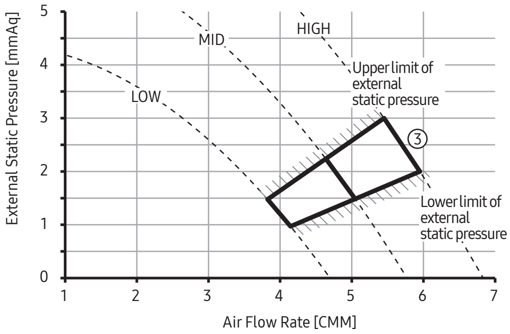
	External Static Pressure(mmAq)	Option Code
①	0	010054-12549E-201111-331110



	External Static Pressure(mmAq)	Option Code
②	2	010054-1255B1-201111-331110



	External Static Pressure(mmAq)	Option Code
③	3	010054-1255F5-201111-331110



Note

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

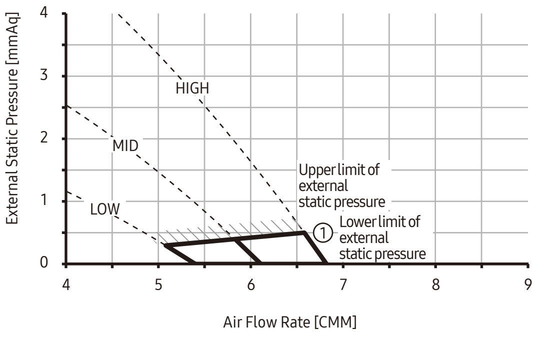
ESP = External Static Pressure

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.

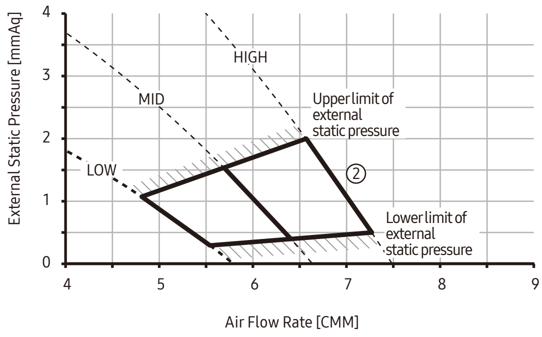
Slim Duct

2) AM022FNLDEH/EU

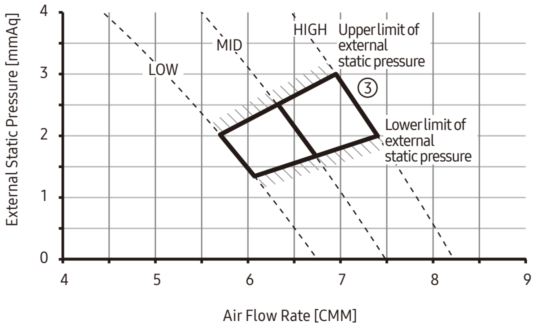
①	External Static Pressure(mmAq)	Option Code
	0	010054-125A80-201616-331110



②	External Static Pressure(mmAq)	Option Code
	1	010054-125AC3-201616-331110



③	External Static Pressure(mmAq)	Option Code
	3	010054-125E08-201616-331110



Note

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

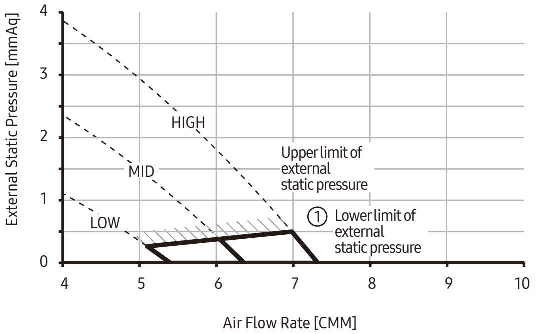
ESP = External Static Pressure

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.

Slim Duct

3) AM028FNLDEH/EU

①	External Static Pressure(mmAq)	Option Code
	0	010054-125AE2-201C1C-331110



②	External Static Pressure(mmAq)	Option Code
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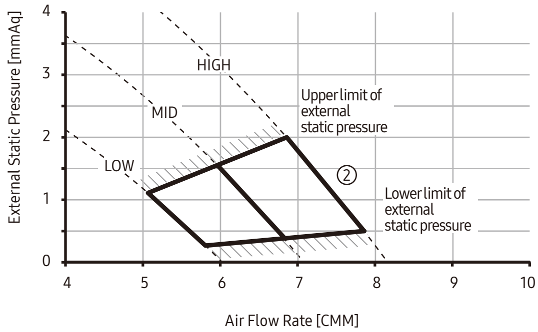
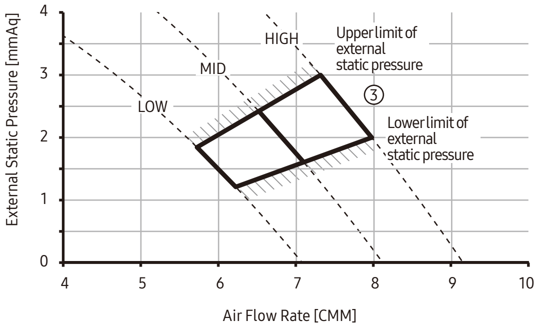


③	External Static Pressure(mmAq)	Option Code
	3	010054-125E7A-201C1C-331110



Note

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

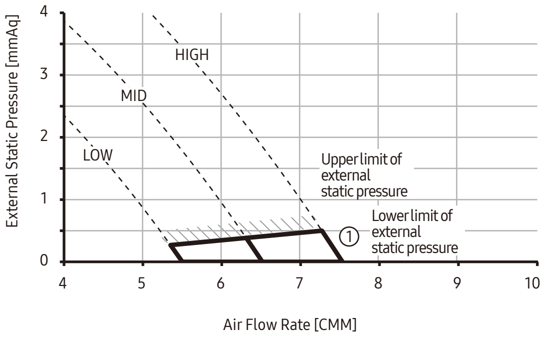
ESP = External Static Pressure

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.

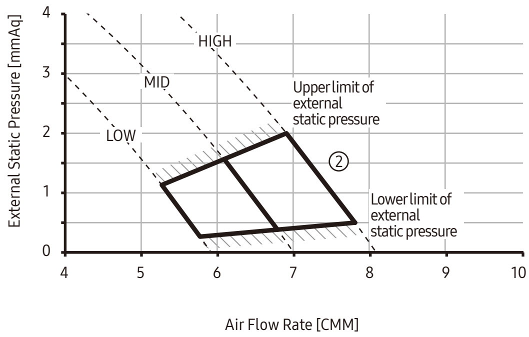
Slim Duct

4) AM036FNLDEH/EU

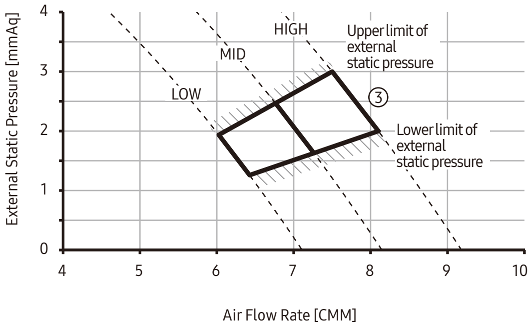
①	External Static Pressure(mmAq)	Option Code
	0	010054-125E35-202424-331110



②	External Static Pressure(mmAq)	Option Code
	1	010054-125E68-202424-331110



③	External Static Pressure(mmAq)	Option Code
	3	010054-125ECD-202424-331110



Note

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

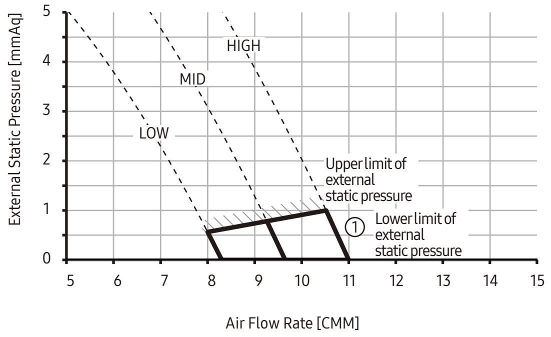
ESP = External Static Pressure

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.

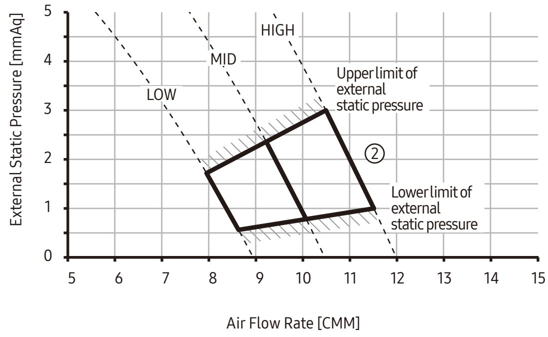
Slim Duct

5) AM045*NLDEH/EU

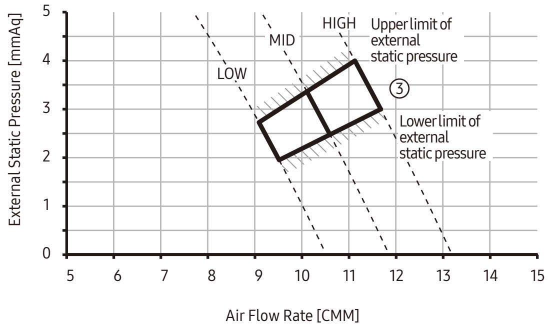
①	External Static Pressure(mmAq)	Option Code
	0	010054-12599F-202D2D-331110



②	External Static Pressure(mmAq)	Option Code
	2	010054-125AE2-202D2D-331110



③	External Static Pressure(mmAq)	Option Code
	4	010054-125EF6-202D2D-331110



Note

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

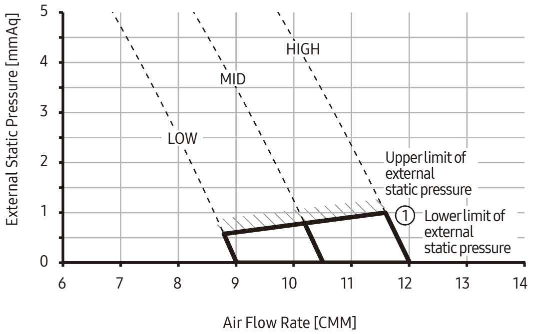
ESP = External Static Pressure

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.

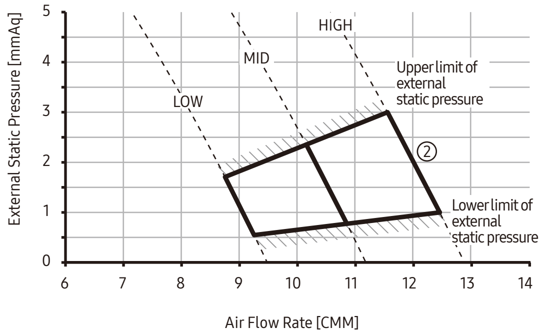
Slim Duct

6) AM056*NLDEH/EU

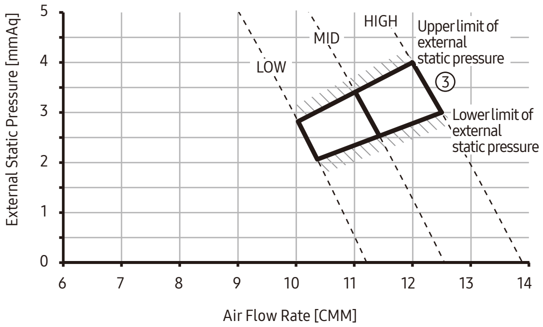
①	External Static Pressure(mmAq)	Option Code
	0	010054-125AC1-203838-331110



②	External Static Pressure(mmAq)	Option Code
	2	010054-125E34-203838-331110



③	External Static Pressure(mmAq)	Option Code
	4	010054-125EF9-203838-331110



Note

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

ESP = External Static Pressure

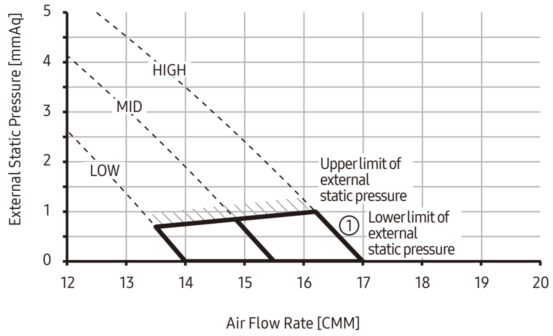
The graphs display the available external static pressure range of installed indoor units. Therefore, they do not reflect the actual change of external static pressure and airflow rate according to adjusted airflow (High-Mid-Low) of installed indoor units.

7 Fan Characteristics

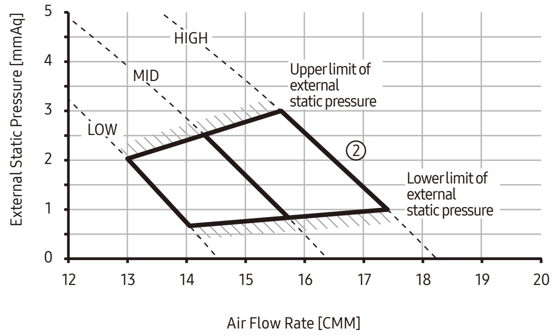
Slim Duct

7) AM071*NLDEH/EU

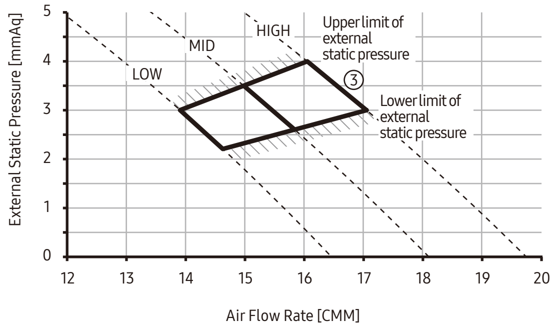
①	External Static Pressure(mmAq)	Option Code
	0	010054-1259BB-204747-331110



②	External Static Pressure(mmAq)	Option Code
	2	010054-125D9E-204747-331110



③	External Static Pressure(mmAq)	Option Code
	4	010054-125EF4-204747-331110



Note

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

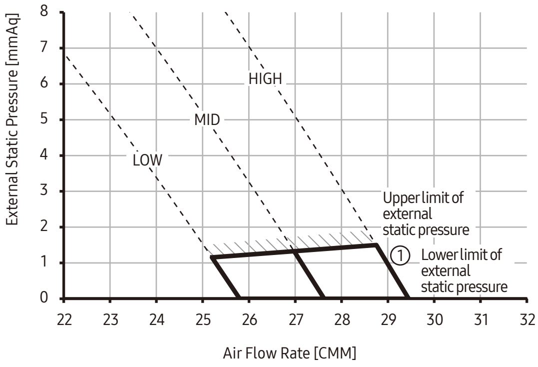
ESP = External Static Pressure

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.

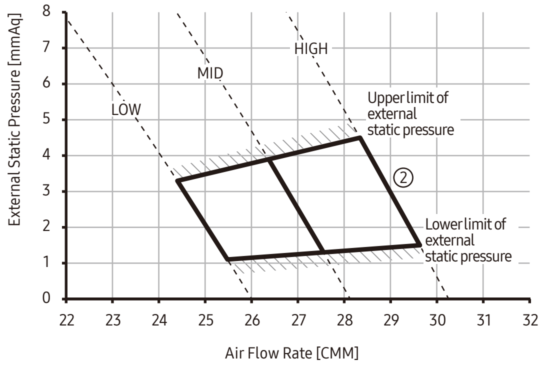
Slim Duct

8) AM090*NLDEH/EU

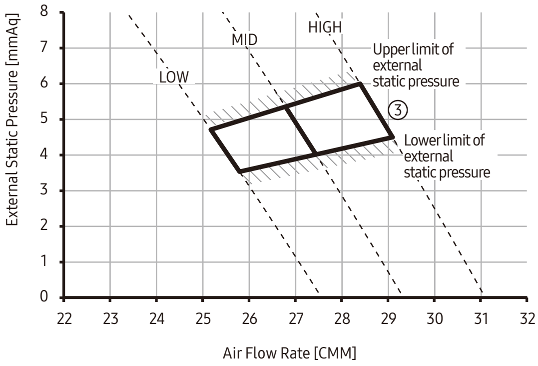
①	External Static Pressure(mmAq)	Option Code
	0	010054-1B596C-205A5A-331110



②	External Static Pressure(mmAq)	Option Code
	3	010054-1B5AD4-205A5A-331110



③	External Static Pressure(mmAq)	Option Code
	6	010054-1B5E2A-205A5A-331110



Note

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

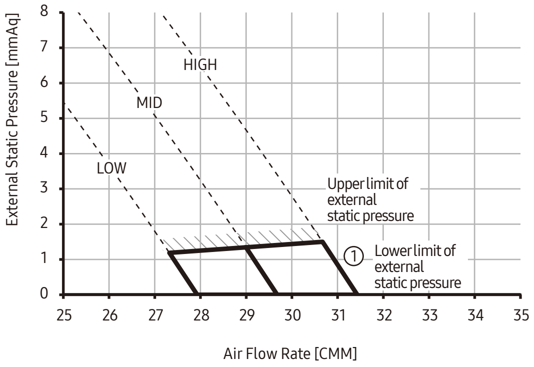
ESP = External Static Pressure

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.

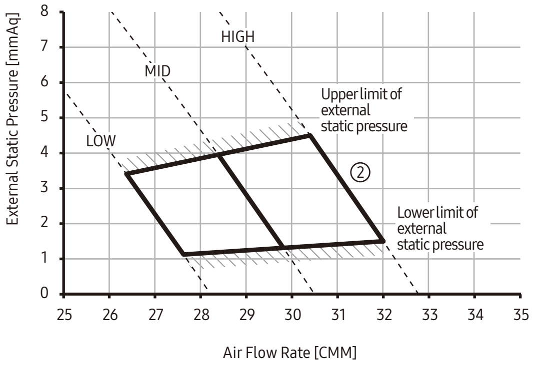
Slim Duct

9) AM112*NLDEH/EU

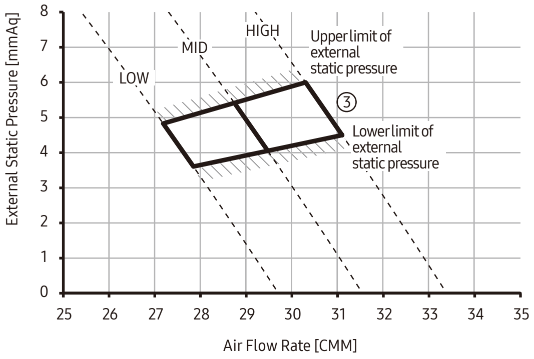
①	External Static Pressure(mmAq)	Option Code
	0	010054-1B596C-207070-331110



②	External Static Pressure(mmAq)	Option Code
	3	010054-1B5AD4-207070-331110



③	External Static Pressure(mmAq)	Option Code
	6	010054-1B5E2A-207070-331110



Note

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

ESP = External Static Pressure

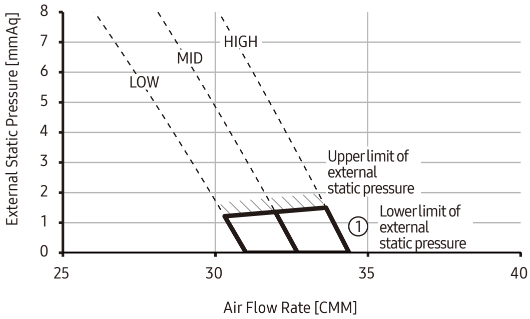
The graphs display the available external static pressure range of installed indoor units. Therefore, they do not reflect the actual change of external static pressure and airflow rate according to adjusted airflow (High-Mid-Low) of installed indoor units.

7 Fan Characteristics

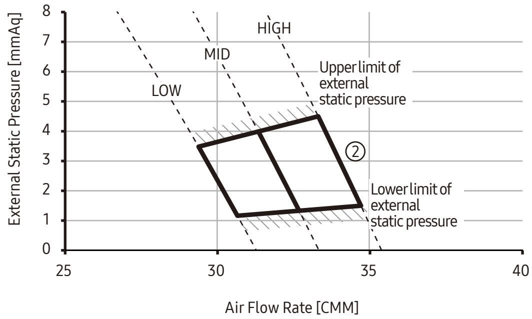
Slim Duct

10) AM128*NLDEH/EU

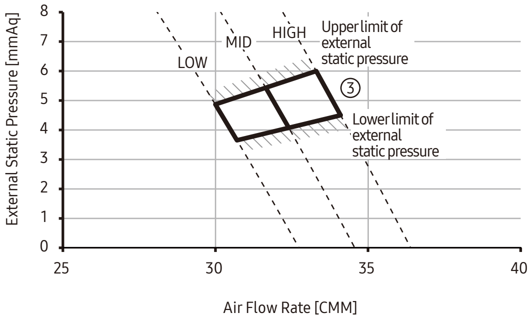
①	External Static Pressure(mmAq)	Option Code
	0	010054-1B5AF5-208080-331110



②	External Static Pressure(mmAq)	Option Code
	3	010054-1B5E4B-208080-331110



③	External Static Pressure(mmAq)	Option Code
	6	010054-1B5E8F-208080-331110



Note

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

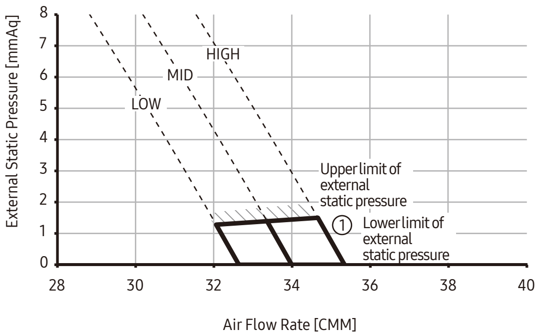
ESP = External Static Pressure

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.

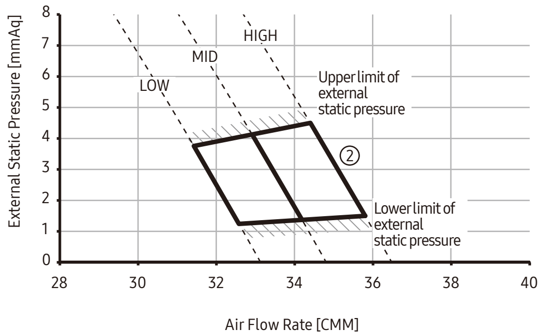
Slim Duct

11) AM140*NLDEH/EU

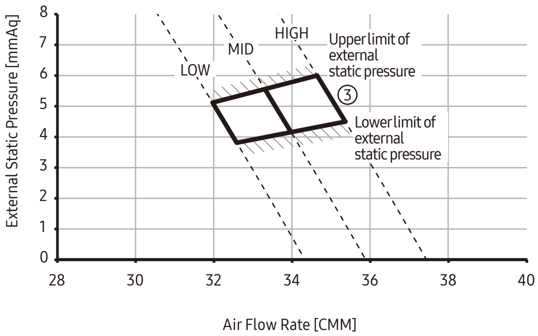
①	External Static Pressure(mmAq)	Option Code
	0	010054-1B5E34-208C8C-331110



②	External Static Pressure(mmAq)	Option Code
	3	010054-1B5E7F-208C8C-331110



③	External Static Pressure(mmAq)	Option Code
	6	010054-1B5FC3-208C8C-331110



Note

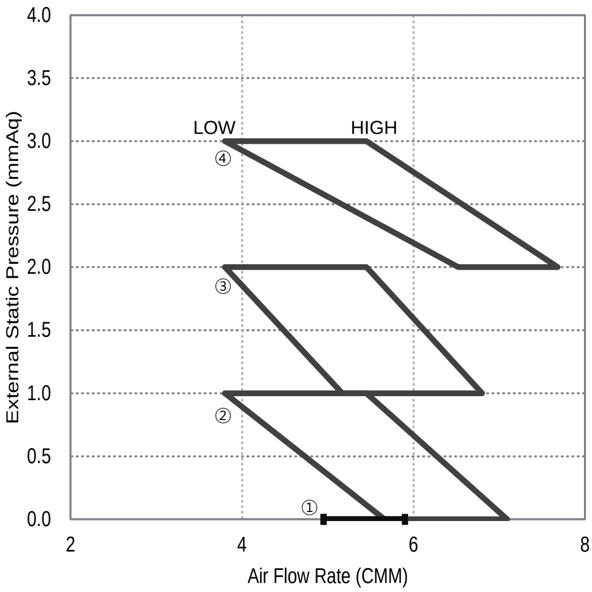
Adjust option code according to the actual installation condition (external static pressure).

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.

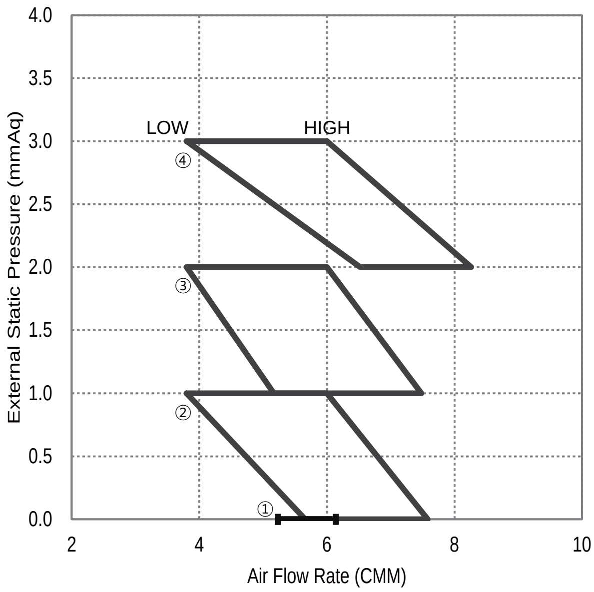
Slim Duct (Home)

12) AM017KNLDEH/EU



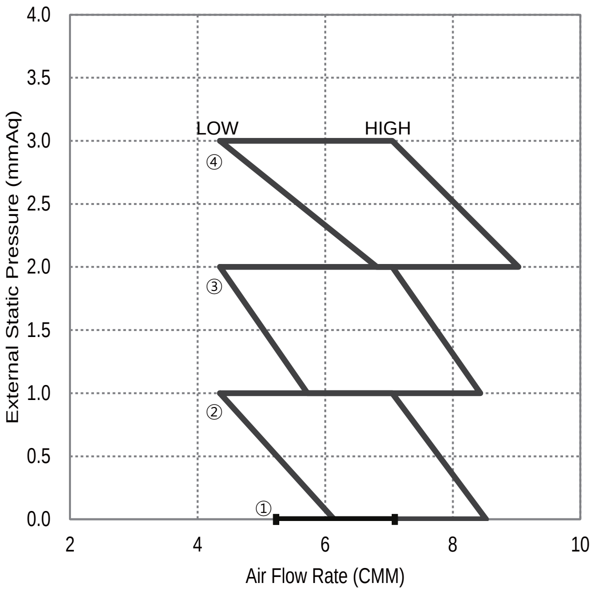
Exernal Static Pressure (mmAq)	Option code
① 0	010054-1C9062-201212-331110
② 0 < P≤1(Defalt)	010054-1C90B5-201212-331110
③ 1 < P≤2	010054-1C940A-201212-331110
④ 2 < P≤3	010054-1C9584-201212-331110

13) AM022KNLDEH/EU



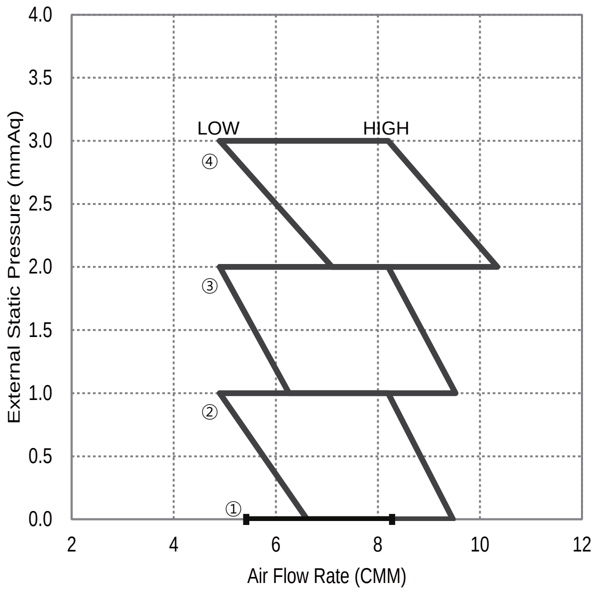
Exernal Static Pressure (mmAq)	Option code
① 0	010054-1C9073-201616-331110
② 0 < P≤1(Defalt)	010054-1C90D5-201616-331110
③ 1 < P≤2	010054-1C942A-201616-331110
④ 2 < P≤3	010054-1C95A4-201616-331110

14) AM028KNLDEH/EU



Exernal Static Pressure (mmAq)	Option code
① 0	010054-1C90B3-201C1C-331110
② 0 < P≤1(Defalt)	010054-1C9417-201C1C-331110
③ 1 < P≤2	010054-1C946C-201C1C-331110
④ 2 < P≤3	010054-1C95C5-201C1C-331110

15) AM036KNLDEH/EU



Exernal Static Pressure (mmAq)	Option code
① 0	010054-1C9404-202424-331110
② 0 < P≤1(Defalt)	010054-1C9459-202424-331110
③ 1 < P≤2	010054-1C94AE-202424-331110
④ 2 < P≤3	010054-1C9916-202424-331110

MSP Duct

MSP Duct

Model				AM022FNMDEH/EU	AM028FNMDEH/EU	AM036FNMDEH/EU	AM045FNMDEH/EU	AM056FNMDEH/EU
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			-	HP/HR	HP/HR	HP/HR	HP/HR	HP/HR
Performance	Capacity (Nominal)	Cooling	kW	2.2	2.8	3.6	4.5	5.6
			Btu/h	7,500	9,600	12,300	15,400	19,100
		Heating	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	W	80	80	85	125	130
		Heating		80	80	85	125	130
	Current Input (Nominal)	Cooling	A	0.40	0.40	0.55	1.15	1.10
		Heating		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	010054-1350F8-202424-331110	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	dBA	23 / 21 / 19	24 / 22 / 19	29 / 27 / 24	32 / 30 / 28	35 / 33 / 31
Dimensions	Net Weight		kg	23.5	23.5	23.5	28.0	28.0
	Shipping Weight		kg	28.5	28.5	28.5	32.5	32.5
	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

NOTE

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

* Heat Exchanger type : Fin & Tube (Fin : Al, Tube : Cu)

1 Specifications

MSP Duct

Model				AM071FNMDEH/EU	AM090FNMDEH/EU	AM112FNMDEH/EU	AM128FNMDEH/EU	AM140FNMDEH/EU
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			-	HP/HR	HP/HR	HP/HR	HP/HR	HP/HR
Performance	Capacity (Nominal)	Cooling	kW	7.1	9.0	11.2	12.8	14.0
			Btu/h	24,200	30,700	38,200	43,700	47,800
		Heating	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	W	190	240	260	370	410
		Heating		190	240	260	370	410
	Current Input (Nominal)	Cooling	A	1.25	1.30	1.17	1.67	1.86
		Heating		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	010054-122A80-208080-331110	010054-122E24-208C8C-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	dBA	39 / 35 / 31	40 / 37 / 34	41 / 40 / 38	41 / 40 / 38	42 / 39 / 36
Dimensions	Net Weight		kg	28.0	32.0	35.5	48.0	48.0
	Shipping Weight		kg	32.5	36.0	40.5	56.0	56.0
	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

NOTE

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

* Heat Exchanger type : Fin & Tube (Fin : Al, Tube : Cu)

MSP Duct

<table>
<tr><td colspan="4">Type</td><td>MSP Duct</td></tr>
<tr><td colspan="4">Model</td><td>AM160KNMDEH/EU</td></tr>
<tr><td colspan="3">Power Supply</td><td>Ø, #, V, Hz</td><td>1,2,220-240,50</td></tr>
<tr><td colspan="3">Mode</td><td>-</td><td>HP/HR</td></tr>
<tr><td rowspan="4">Performance</td><td rowspan="4">Capacity (Nominal)</td><td rowspan="2">Cooling</td><td>kW</td><td>16.00</td></tr>
<tr><td>Btu/h</td><td>54,600</td></tr>
<tr><td rowspan="2">Heating</td><td>kW</td><td>18.00</td></tr>
<tr><td>Btu/h</td><td>61,400</td></tr>
<tr><td rowspan="4">Power</td><td rowspan="2">Power Input (Nominal)</td><td>Cooling</td><td rowspan="2">W</td><td>485.00</td></tr>
<tr><td>Heating</td><td>485.00</td></tr>
<tr><td rowspan="2">Current Input (Nominal)</td><td>Cooling</td><td rowspan="2">A</td><td>2.24</td></tr>
<tr><td>Heating</td><td>2.24</td></tr>
<tr><td rowspan="6">Fan</td><td rowspan="2">Motor</td><td>Type</td><td>-</td><td>Sirocco Fan</td></tr>
<tr><td>Output x n</td><td>w</td><td>370 x 1</td></tr>
<tr><td rowspan="2">Air Flow Rate</td><td rowspan="2">H/M/L (UL)</td><td>CMM</td><td>43.00 / 38.00 / 30.50</td></tr>
<tr><td>l/s</td><td>716.67 / 633.33 / 508.33</td></tr>
<tr><td rowspan="2">External Pressure</td><td rowspan="2">Min/Std/Max</td><td>mmAq</td><td>4.00 / 8.00 / 14.00</td></tr>
<tr><td>Pa</td><td>39.20 / 78.40 / 137.20</td></tr>
<tr><td rowspan="5">Piping Connections</td><td colspan="2" rowspan="2">Liquid Pipe</td><td>Ø, mm</td><td>9.52</td></tr>
<tr><td>Ø, inch</td><td>3/8"</td></tr>
<tr><td colspan="2" rowspan="2">Gas Pipe</td><td>Ø, mm</td><td>15.88</td></tr>
<tr><td>Ø, inch</td><td>5/8"</td></tr>
<tr><td colspan="2">Drain Pipe</td><td>Ø, mm</td><td>VP25 (OD 32,ID 25)</td></tr>
<tr><td rowspan="2">Field Wiring</td><td colspan="2">Power Source Wire</td><td>mm²</td><td>1.5 - 2.5</td></tr>
<tr><td colspan="2">Transmission Cable</td><td>mm²</td><td>0.75 - 1.50</td></tr>
<tr><td rowspan="2">Refrigerant</td><td colspan="2">Type</td><td>-</td><td>R410A</td></tr>
<tr><td colspan="2">Control Method</td><td>-</td><td>EEV INCLUDED</td></tr>
<tr><td rowspan="2">Sound</td><td>Pressure</td><td>High / Mid / Low</td><td rowspan="2">dB(A)</td><td>43 / 40 / 36</td></tr>
<tr><td>Power</td><td>Cooling</td><td>69</td></tr>
<tr><td rowspan="4">Dimension</td><td colspan="2">Net Weight</td><td>kg</td><td>50.0</td></tr>
<tr><td colspan="2">Shipping Weight</td><td>kg</td><td>58.0</td></tr>
<tr><td colspan="2">Net Dimensions (WxHxD)</td><td>mm</td><td>1,200 x 360 x 650</td></tr>
<tr><td colspan="2">Shipping Dimensions (WxHxD)</td><td>mm</td><td>1,480 x 420 x 790</td></tr>
<tr><td rowspan="5">Panel Size</td><td colspan="2">Panel model</td><td>-</td><td>-</td></tr>
<tr><td colspan="2">Panel Net Weight</td><td>kg</td><td>-</td></tr>
<tr><td colspan="2">Shipping Weight</td><td>kg</td><td>-</td></tr>
<tr><td colspan="2">Net Dimensions (WxHxD)</td><td>mm</td><td>-</td></tr>
<tr><td colspan="2">Shipping Dimensions (WxHxD)</td><td>mm</td><td>-</td></tr>
<tr><td rowspan="3">Additional Accessories</td><td rowspan="2">Drain Pump</td><td>Drain Pump</td><td>- / Model</td><td>MDP-M075SGU2D</td></tr>
<tr><td>Max. lifting Height / Displacement</td><td>mm/liter/h</td><td>-</td></tr>
<tr><td colspan="2">Air Filter</td><td>-</td><td>-</td></tr>
</table>

NOTE

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

* Heat Exchanger type : Fin & Tube (Fin : Al, Tube : Cu)

1 Specifications

MSP Duct

Type				MSP DUCT	MSP DUCT	MSP DUCT
Model				AM022KNMDEH/EU	AM028KNMDEH/EU	AM036KNMDEH/EU
Power Supply			Φ, #, 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	2.20	2.80	3.60
			Btu/h	7,500	9,600	12,300
		Heating	kW	2.50	3.20	4.00
			Btu/h	8,500	10,900	13,600
Power	Power Input (Nominal)	Cooling	W	80.00	80.00	85.00
		Heating		80.00	80.00	85.00
	Current Input (Nominal)	Cooling	A	0.40	0.40	0.55
		Heating		0.40	0.40	0.55
Fan	Type		-	Sirocco Fan	Sirocco Fan	Sirocco Fan
	Motor	Output x n	W	69 x 1	69 x 1	112 x 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
			l/s	141.67/125.00/105.00	166.67/153.33/125.00	200.00/170.00/146.67
	External Static Pressure	Min / Std / Max	mmAq	0.00/2.00/6.00	0.00/2.00/6.00	0.00/2.00/6.00
			Pa	0.00/19.61/58.84	0.00/19.61/58.84	0.00/19.61/58.84
Piping Connections	Liquid Pipe		Φ,mm	6.35	6.35	6.35
			Φ, inch	1/4"	1/4"	1/4"
	Gas Pipe		Φ,mm	12.70	12.70	12.70
			Φ, inch	1/2"	1/2"	1/2"
	Drain Pipe		Φ,mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
Field Wiring	Power Source Wire		mm^2	1.5 ~ 2.5	1.5 ~ 2.5	1.5 ~ 2.5
	Transmission Cable		mm^2	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 Data	Sound Pressure Level	High / Mid / Low	dB(A)	23 / 21 / 19	24 / 22 / 19	29 / 27 / 24
	Sound Power Level	Cooling		47	48	53
Dimensions	Net Weight		kg	24.0	24.0	24.0
	Shipping Weight		kg	29.0	29.0	29.0
	Net Dimensions (W×H×D)		mm	900 x 199 x 600	900 x 199 x 600	900 x 199 x 600
	Shipping Dimensions (W×H×D)		mm	1150 x 280 x 710	1150 x 280 x 710	1150 x 280 x 710
Panel Size	Panel model		-	-	-	-
	Panel Net Weight		kg	-	-	-
	Shipping Weight		kg	-	-	-
	Net Dimensions (W×H×D)		mm	-	-	-
	Shipping Dimensions (W×H×D)		mm	-	-	-
Additional Accessories	Drain pump	Drain pump	-	Drain Pump Included	Drain Pump Included	Drain Pump Included
		Max. lifting Height	mm	-	-	-
	Air Filter		-	-	-	-

NOTE

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

* Heat Exchanger type : Fin & Tube (Fin : Al, Tube : Cu)

MSP Duct

Type				MSP DUCT	MSP DUCT	MSP DUCT
Model				AM045KNMDEH/EU	AM056KNMDEH/EU	AM071KNMDEH/EU
Power Supply			Φ, #, V, Hz	1,2,220-240,50	1,2,220-240,50	1,2,220-240,50
Mode			-	HP/HR	HP/HR	HP/HR
Performance	Capacity (Nominal)	Cooling	kW	4.50	5.60	7.10
			Btu/h	15,400	19,100	24,200
		Heating	kW	5.00	6.30	8.00
			Btu/h	17,100	21,500	27,300
Power	Power Input (Nominal)	Cooling	W	125.00	130.00	190.00
		Heating		125.00	130.00	190.00
	Current Input (Nominal)	Cooling	A	1.15	1.10	1.25
		Heating		1.15	1.10	1.25
Fan	Type		-	Sirocco Fan	Sirocco Fan	Sirocco Fan
	Motor	Output x n	W	219 x 1	124 x 1	124 x 1
	Air Flow Rate	H/M/L (UL)	CMM	14.00/12.00/10.50	14.50/13.00/11.50	18.50/17.00/15.50
			l/s	233.33/200.00/175.00	241.67/216.67/191.67	308.33/283.33/258.33
	External Static Pressure	Min / Std / Max	mmAq	0.00/4.00/8.00	0.00/4.00/8.00	0.00/4.00/8.00
			Pa	0.00/39.23/78.45	0.00/39.23/78.45	0.00/39.23/78.45
Piping Connections	Liquid Pipe		Φ,mm	6.35	6.35	9.52
			Φ, inch	1/4"	1/4"	3/8"
	Gas Pipe		Φ,mm	12.70	12.70	15.88
			Φ, inch	1/2"	1/2"	5/8"
	Drain Pipe		Φ,mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
Field Wiring	Power Source Wire		mm^2	1.5 ~ 2.5	1.5 ~ 2.5	1.5 ~ 2.5
	Transmission Cable		mm^2	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 Data	Sound Pressure Level	High / Mid / Low	dB(A)	32 / 30 / 28	35 / 33 / 31	39 / 35 / 31
	Sound Power Level	Cooling		54	57	61
Dimensions	Net Weight		kg	28.5	28.5	28.5
	Shipping Weight		kg	33.0	33.0	33.0
	Net Dimensions (W×H×D)		mm	900 x 260 x 480	900 x 260 x 480	900 x 260 x 480
	Shipping Dimensions (W×H×D)		mm	1170 x 340 x 595	1170 x 340 x 595	1170 x 340 x 595
Panel Size	Panel model		-	-	-	-
	Panel Net Weight		kg	-	-	-
	Shipping Weight		kg	-	-	-
	Net Dimensions (W×H×D)		mm	-	-	-
	Shipping Dimensions (W×H×D)		mm	-	-	-
Additional Accessories	Drain pump	Drain pump	-	Drain Pump Included	Drain Pump Included	Drain Pump Included
		Max. lifting Height	mm	-	-	-
	Air Filter		-	-	-	-

NOTE

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

* Heat Exchanger type : Fin & Tube (Fin : Al, Tube : Cu)

MSP Duct

				MSP DUCT	MSP DUCT	MSP DUCT
Type				MSP DUCT	MSP DUCT	MSP DUCT
Model				AM090KNMDEH/EU	AM112KNMDEH/EU	AM128KNMDEH/EU
Power Supply			Φ, #, 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	9.00	11.20	12.80
			Btu/h	30,700	38,200	43,700
		Heating	kW	10.00	12.50	13.80
			Btu/h	34,100	42,700	47,100
Power	Power Input (Nominal)	Cooling	W	240.00	260.00	370.00
		Heating		240.00	260.00	370.00
	Current Input (Nominal)	Cooling	A	1.30	1.17	1.67
		Heating		1.30	1.17	1.67
Fan	Type		-	Sirocco Fan	Sirocco Fan	Sirocco Fan
	Motor	Output x n	W	130 x 1	130 x 1	218 x 1
	Air Flow Rate	H/M/L (UL)	CMM	19.50/18.00/16.50	27.00/25.00/23.00	32.00/30.00/28.00
			l/s	325.00/300.00/275.00	450.00/416.67/383.33	533.33/500.00/466.67
	External Static Pressure	Min / Std / Max	mmAq	4.00/6.00/8.00	4.00/8.00/12.00	4.00/8.00/14.00
			Pa	39.23/58.84/78.45	39.23/78.45/117.68	39.23/78.45/137.29
Piping Connections	Liquid Pipe		Φ,mm	9.52	9.52	9.52
			Φ, inch	3/8"	3/8"	3/8"
	Gas Pipe		Φ,mm	15.88	15.88	15.88
			Φ, inch	5/8"	5/8"	5/8"
	Drain Pipe		Φ,mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
Field Wiring	Power Source Wire		mm^2	1.5 ~ 2.5	1.5 ~ 2.5	1.5 ~ 2.5
	Transmission Cable		mm^2	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 Data	Sound Pressure Level	High / Mid / Low	dB(A)	40 / 37 / 34	41 / 40 / 38	41 / 40 / 38
	Sound Power Level	Cooling		63	66	66
Dimensions	Net Weight		kg	32.5	36.0	48.5
	Shipping Weight		kg	37.5	41.0	57.0
	Net Dimensions (W×H×D)		mm	1150 x 260 x 480	1150 x 320 x 480	1200 x 360 x 650
	Shipping Dimensions (W×H×D)		mm	1420 x 340 x 595	1420 x 400 x 595	1480 x 420 x 790
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	-	Drain Pump Included	Drain Pump Included	Drain Pump Included
		Max. lifting Height	mm	-	-	-
	Air Filter		-	-	-	-

NOTE

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

* Heat Exchanger type : Fin & Tube (Fin : Al, Tube : Cu)

MSP Duct

Type				MSP DUCT	MSP DUCT
Model				AM140KNMDEH/EU	AM160KNMDEH1EU
Power Supply			Φ, #, V, Hz	1,2,220-240,50	1,2,220-240,50
Mode			-	HP/HR	HP/HR
Performance	Capacity (Nominal)	Cooling	kW	14.00	16.00
			Btu/h	47,800	54,600
		Heating	kW	16.00	18.00
			Btu/h	54,600	61,400
Power	Power Input (Nominal)	Cooling	W	410.00	485.00
		Heating		410.00	485.00
	Current Input (Nominal)	Cooling	A	1.86	2.24
		Heating		1.86	2.24
Fan	Type		-	Sirocco Fan	Sirocco Fan
	Motor	Output x n	W	218 x 1	370 x 1
	Air Flow Rate	H/M/L (UL)	CMM	37.00/34.00/31.00	43.00/38.00/30.50
			l/s	616.67/566.67/516.67	716.67/633.33/508.33
	External Static Pressure	Min / Std / Max	mmAq	4.00/8.00/14.00	4.00/8.00/14.00
			Pa	39.23/78.45/137.29	39.23/78.45/137.29
Piping Connections	Liquid Pipe		Φ,mm	9.52	9.52
			Φ, inch	3/8"	3/8"
	Gas Pipe		Φ,mm	15.88	15.88
			Φ, inch	5/8"	5/8"
	Drain Pipe		Φ,mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
Field Wiring	Power Source Wire		mm^2	1.5 ~ 2.5	1.5 ~ 2.5
	Transmission Cable		mm^2	0.75 ~ 1.50	0.75 ~ 1.50
Refrigerant	Type		-	R410A	R410A
	Control Method		-	EEV INCLUDED	EEV INCLUDED
Sound Data	Sound Pressure Level	High / Mid / Low	dB(A)	42 / 39 / 36	43 / 40 / 36
	Sound Power Level	Cooling		68	69
Dimensions	Net Weight		kg	48.5	50.5
	Shipping Weight		kg	57.0	59.0
	Net Dimensions (W×H×D)		mm	1200 x 360 x 650	1200 x 360 x 650
	Shipping Dimensions (W×H×D)		mm	1480 x 420 x 790	1480 x 420 x 790
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	-	Drain Pump Included	Drain Pump Included
		Max. lifting Height	mm	-	-
	Air Filter		-	-	-

NOTE

1) Mode : HP(Heat Pump), HR(Heat Recovery)
2) Nominal Cooling : Indoor temperature 27ºCDB / 19ºCWB, Outdoor temperature 35ºCDB/24ºCWB, Refrigerant pipe length 7.5m, Level difference 0m.
3) Nominal Heating : Indoor temperature 20ºCDB / 15ºCWB, Outdoor temperature 7ºCDB / 6ºCWB, Refrigerant pipe length 7.5m, Level difference 0m.
4) Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
5) These products contain R410A which is fluorinated greenhouse gas.
6) Specifications may be subject to change without prior notice.
* Heat Exchanger type : Fin & Tube (Fin : Al, Tube : Cu)

MSP Duct

Cooling

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

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

MSP Duct

Cooling

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

Model	Outdoor temperature (℃, DB)	Indoor temperature (℃)													
		20 (℃, DB) 14 (℃, WB)		23 (℃, DB) 16 (℃, WB)		26 (℃, DB) 18 (℃, WB)		27 (℃, DB) 19 (℃, WB)		28 (℃, DB) 20 (℃, WB)		30 (℃, DB) 22 (℃, WB)		32 (℃, DB) 24 (℃, 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
160	10	11.1	9.6	13.0	10.9	15.0	11.8	16.0	12.1	16.7	12.2	17.9	12.3	19.2	12.2
	12	11.1	9.6	13.0	10.9	15.0	11.8	16.0	12.1	16.6	12.1	17.8	12.2	19.1	12.1
	14	11.1	9.6	13.0	10.9	15.0	11.8	16.0	12.1	16.6	12.1	17.8	12.2	19.1	12.1
	16	11.1	9.6	13.0	10.9	15.0	11.8	16.0	12.1	16.6	12.1	17.8	12.2	19.0	12.0
	18	11.1	9.6	13.0	10.9	15.0	11.8	16.0	12.1	16.6	12.1	17.7	12.1	19.0	12.0
	20	11.1	9.6	13.0	10.9	15.0	11.8	16.0	12.1	16.6	12.1	17.7	12.1	18.9	11.9
	21	11.1	9.6	13.0	10.9	15.0	11.8	16.0	12.1	16.6	12.1	17.7	12.1	18.9	11.9
	23	11.1	9.6	13.0	10.9	15.0	11.8	16.0	12.1	16.6	12.1	17.7	12.1	18.9	11.9
	25	11.1	9.6	13.0	10.9	15.0	11.8	16.0	12.1	16.6	12.1	17.7	12.1	18.9	11.9
	27	11.1	9.6	13.0	10.9	15.0	11.8	16.0	12.1	16.6	12.1	17.7	12.1	18.9	11.9
	29	11.1	9.6	13.0	10.9	15.0	11.8	16.0	12.1	16.6	12.1	17.7	12.1	18.9	11.9
	31	11.1	9.6	13.0	10.9	15.0	11.8	16.0	12.1	16.6	12.1	17.7	12.1	18.9	11.9
	33	11.1	9.6	13.0	10.9	15.0	11.8	16.0	12.1	16.6	12.1	17.7	12.1	18.9	11.9
	35	11.1	9.6	13.0	10.9	15.0	11.8	16.0	12.1	16.6	12.1	17.7	12.1	18.9	11.9
	37	11.1	9.6	13.0	10.9	15.0	11.8	16.0	12.1	16.6	12.1	17.6	12.0	18.6	11.8
	39	11.1	9.6	13.0	10.9	15.0	11.8	16.0	12.1	16.5	12.0	17.3	11.8	18.2	11.5

2 Capacity Table

MSP Duct

Heating

TC : Total Capacity(kW)

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

MSP Duct

Heating

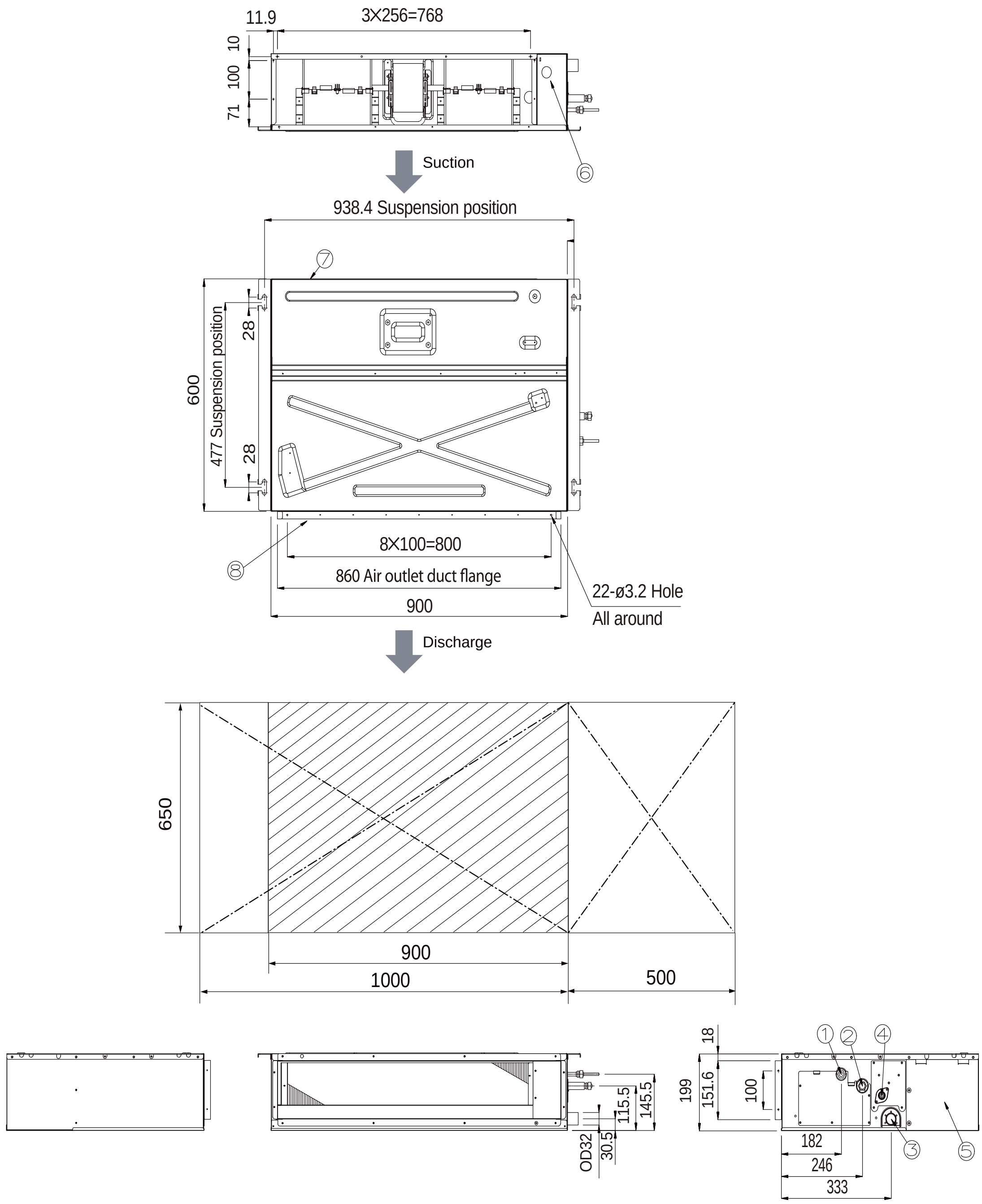
TC : Total Capacity(kW)

Model	Outdoor temperature (ºC)		Indoor temperature (ºC, 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
160	-19.8	-20.0	14.6	14.1	13.3	12.6	12.2
	-16.7	-17.0	15.1	14.5	13.7	13.3	13.2
	-14.7	-15.0	15.7	15.0	14.2	13.8	13.6
	-12.6	-13.0	16.4	15.7	14.9	14.4	14.2
	-10.5	-11.0	17.5	16.8	15.9	15.2	15.0
	-7.0	-7.6	18.3	17.6	16.6	16.1	15.8
	-5.0	-5.6	18.9	18.1	17.1	16.7	16.3
	-3.0	-3.7	19.3	18.6	17.5	17.4	16.6
	0.0	-0.7	19.7	19.1	17.9	17.5	17.1
	3.0	2.2	20.2	19.4	18.0	17.6	17.0
	5.0	4.1	20.4	19.4	18.0	17.6	17.0
	7.0	6.0	20.7	19.4	18.0	17.6	17.0
	9.0	7.9	20.7	19.4	18.0	17.6	17.0
	11.0	9.8	20.7	19.4	18.0	17.6	17.0
	13.0	11.8	20.7	19.4	18.0	17.6	17.0
	15.0	13.7	20.7	19.4	18.0	17.6	17.0

MSP Duct

AM022/028/036*NMDEH/EU

[Unit : mm]

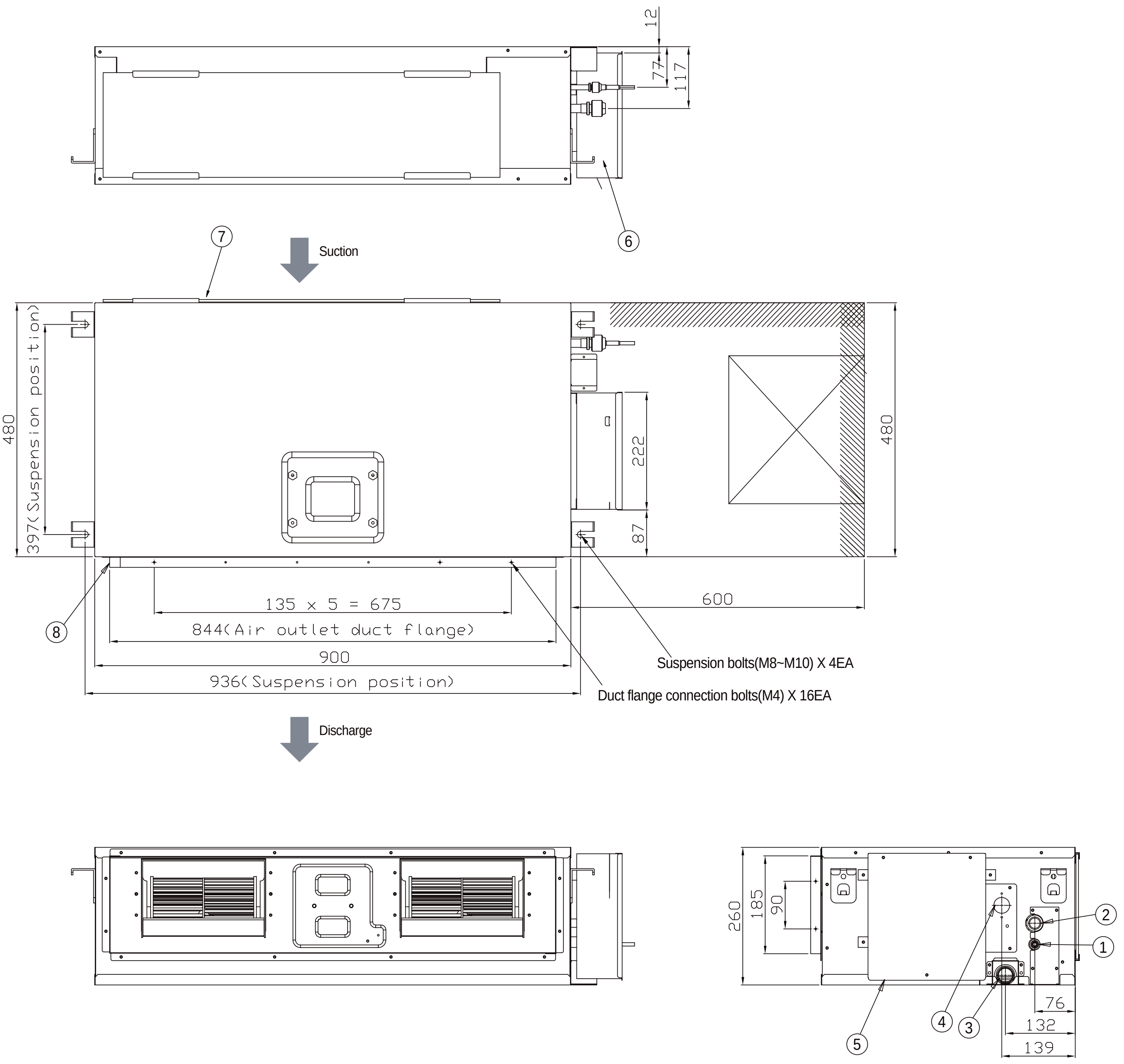


No.	Name	Description		
		2.2kW	2.8kW	3.6kW
1	Liquid pipe connection	Ø6.35 Flare		
2	Gas pipe connection	Ø12.70 Flare		
3	Drain pipe connection without drain pump	VP25 (OD 32, ID 25)		
4	Drain pipe connection with drain pump	VP25 (OD 32, ID 25)		
5	Control unit	-		
6	Conduit for power supply & communication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

MSP Duct

AM045/056/071*NMDEH/EU

[Unit : mm]



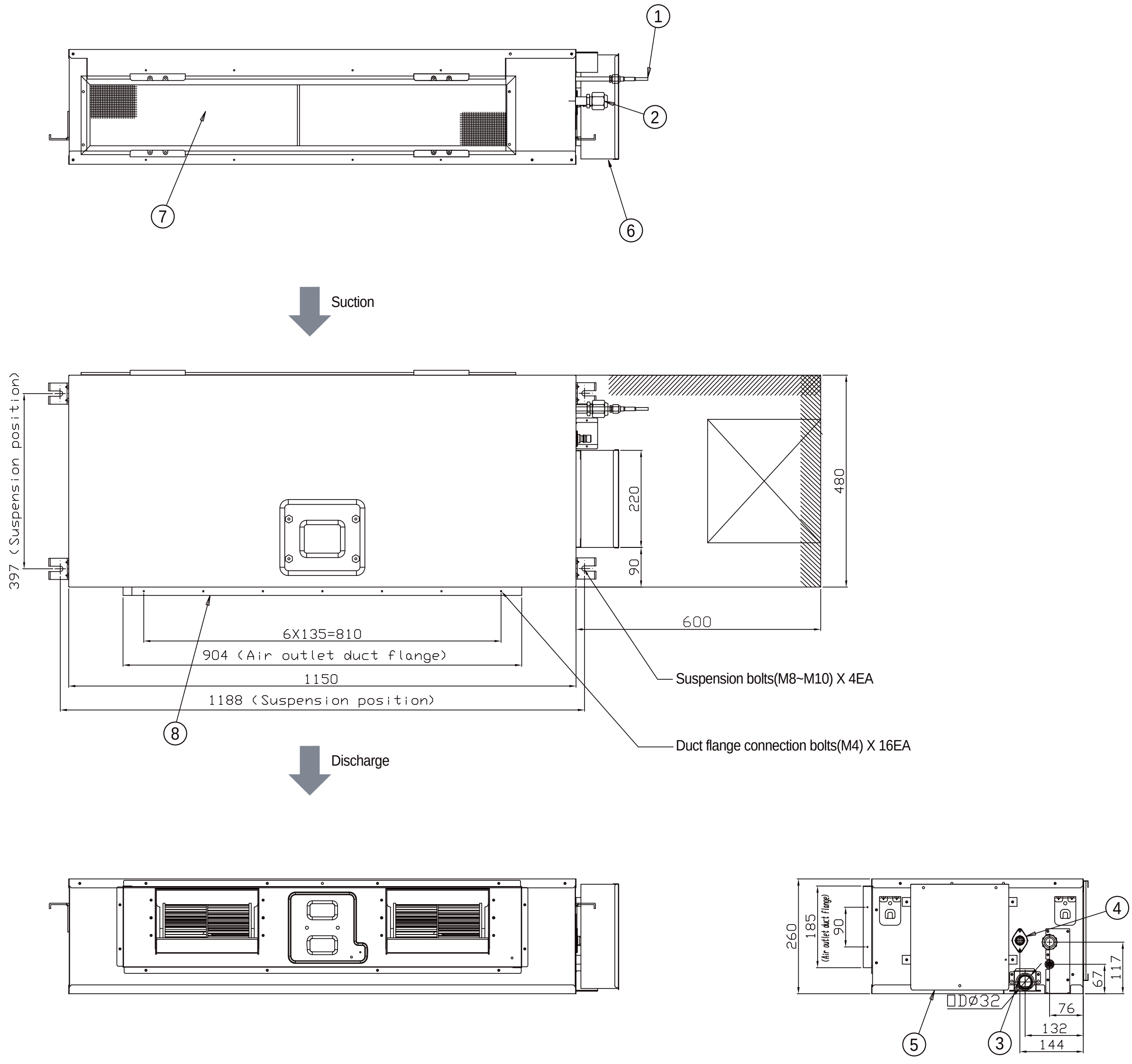
No.	Name	Description		
		4.5kW	5.6kW	7.1kW
1	Liquid pipe connection	Ø6.35 Flare		Ø9.52 Flare
2	Gas pipe connection	Ø12.70 Flare		Ø15.88 Flare
3	Drain pipe connection without drain pump	VP25 (OD 32, ID 25)		
4	Drain pipe connection with drain pump	VP25 (OD 32, ID 25)		
5	Control unit	-		
6	Conduit for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

3 Dimensional Drawing

MSP Duct

AM090*NMDEH/EU

[Unit : mm]

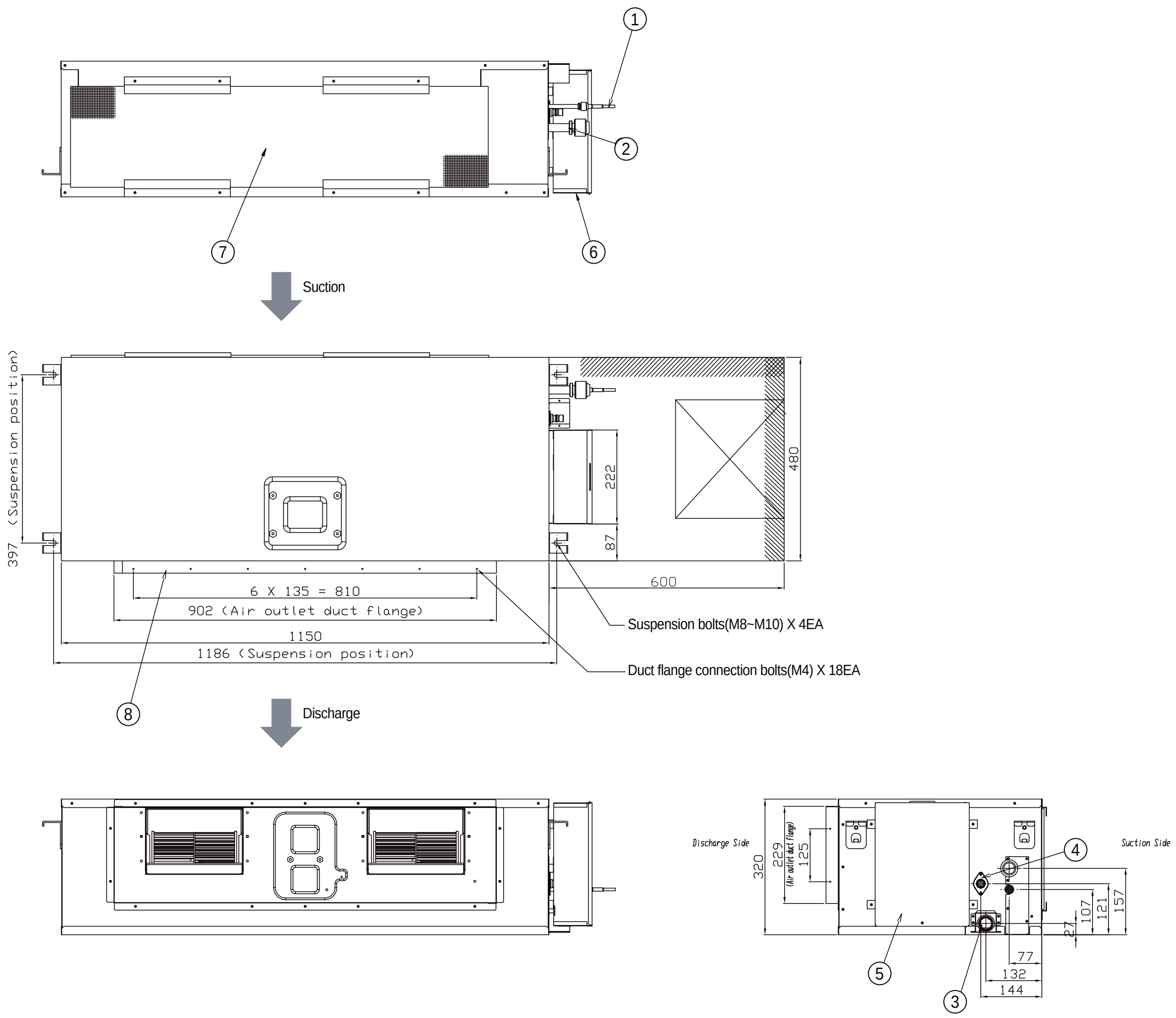


No.	Name	Description
		9.0kW
1	Liquid pipe connection	Ø9.52 Flare
2	Gas pipe connection	Ø15.88 Flare
3	Drain pipe connection without drain pump	VP25 (OD 32, ID 25)
4	Drain pipe connection with drain pump	VP25 (OD 32, ID 25)
5	Control unit	-
6	Conduit for power supply & communication wiring	-
7	Return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

MSP Duct

AM112*NMDEH/EU

[Unit : mm]

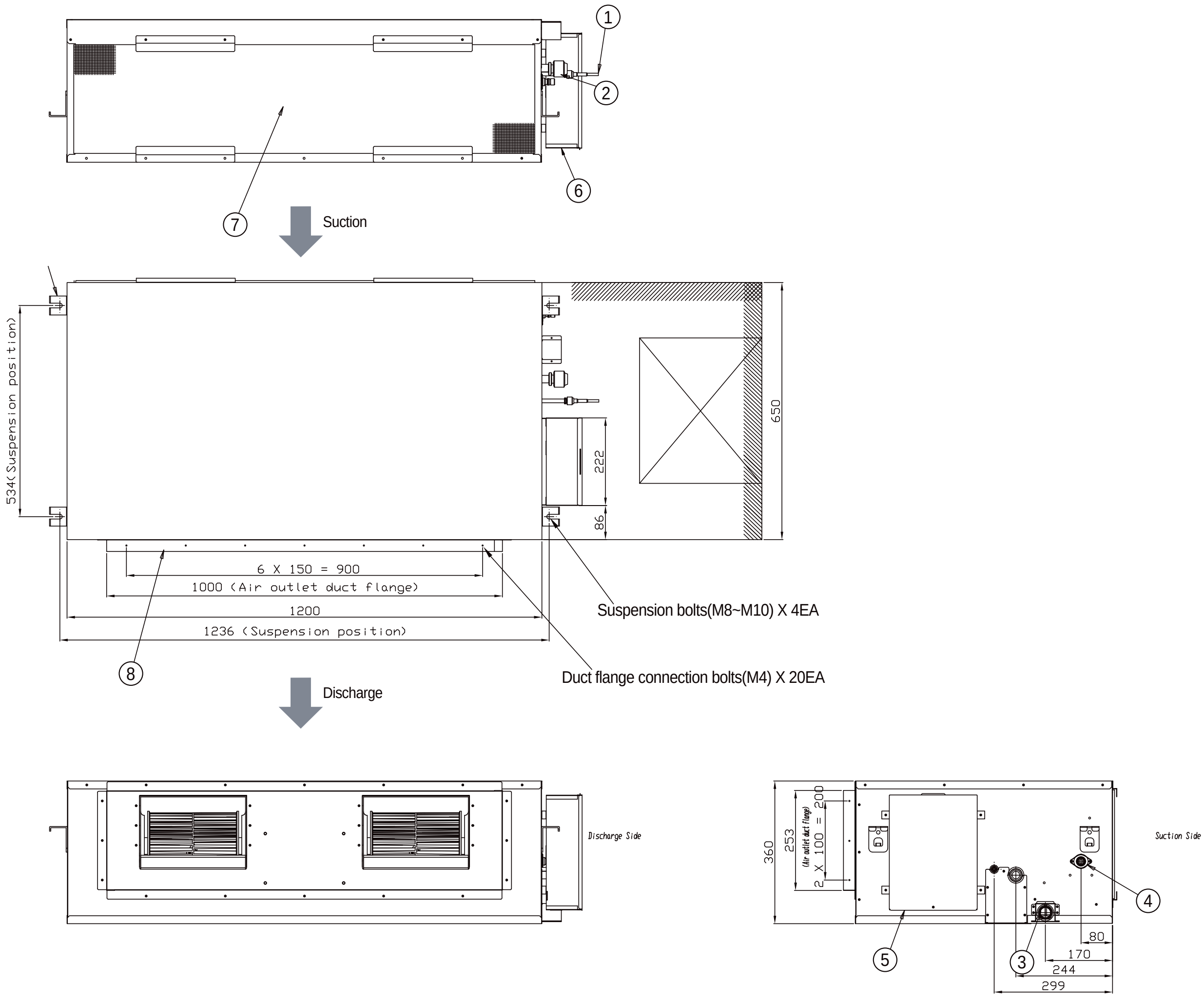


No.	Name	Description
		11.2kW
1	Liquid pipe connection	Ø9.52 Flare
2	Gas pipe connection	Ø15.88 Flare
3	Drain pipe connection without drain pump	VP25 (OD 32, ID 25)
4	Drain pipe connection with drain pump	VP25 (OD 32, ID 25)
5	Control unit	-
6	Conduit for power supply & communication wiring	-
7	Return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

MSP Duct

AM128/140/160*NMDEH*EU

[Unit : mm]

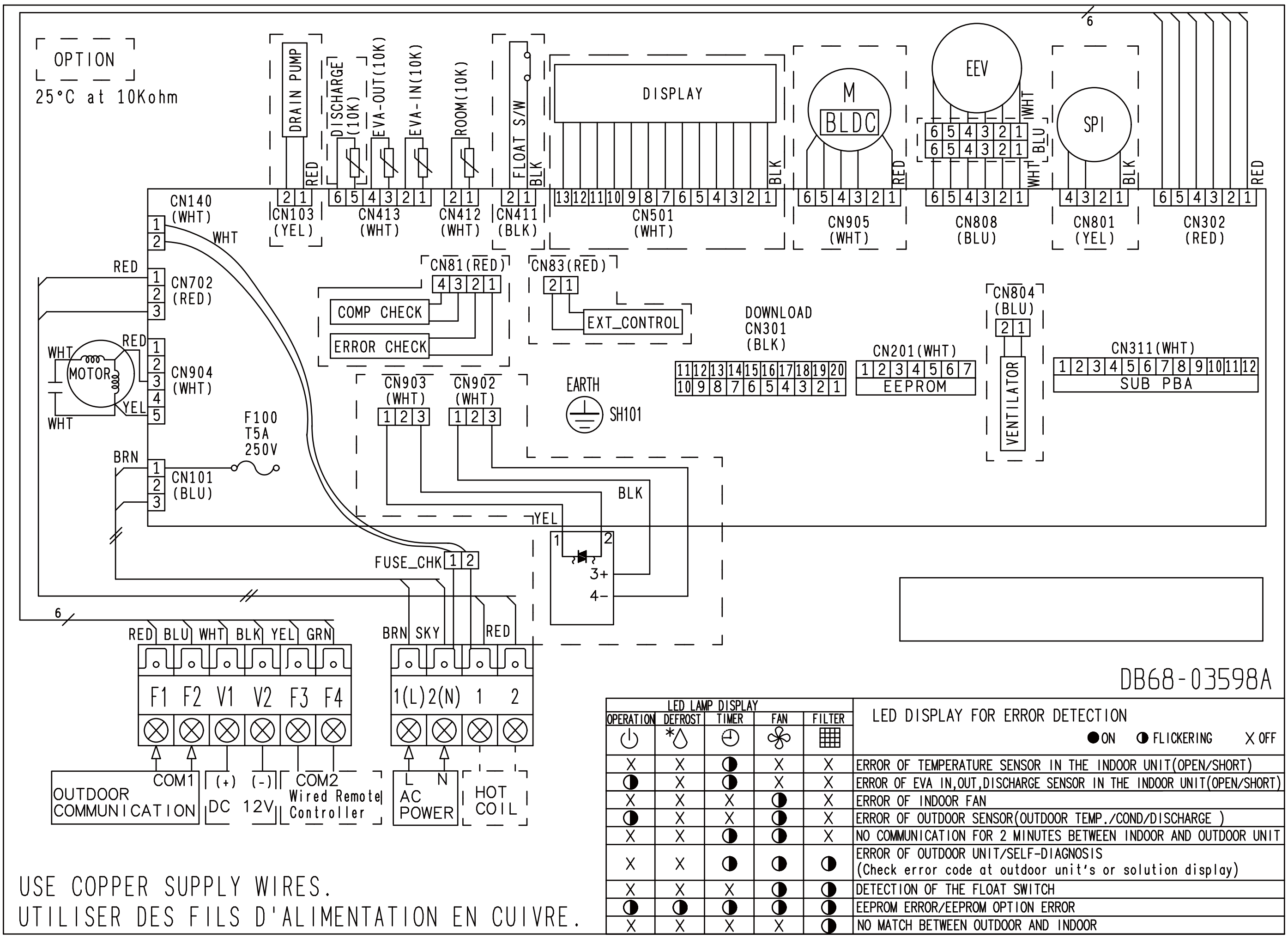


No.	Name	Description		
		12.8kW	14.0kW	16.0kW
1	Liquid pipe connection	Ø9.52 Flare		
2	Gas pipe connection	Ø15.88 Flare		
3	Drain pipe connection without drain pump	VP25 (OD 32, ID 25)		
4	Drain pipe connection with drain pump	VP25 (OD 32, ID 25)		
5	Control unit	-		
6	Conduit for power supply & communication wiring	-		
7	Return air side	-		
8	Air outlet duct flange	-		

4 Electrical Wiring Diagram

MSP Duct

AM022/028/036/045/056/071/090/112/128/140/160*NMDEH*EU



LED DISPLAY FOR ERROR DETECTION

● ON ◑ FLICKERING X OFF

LED LAMP DISPLAY					
OPERATION	DEFROST	TIMER	FAN	FILTER	
X	X	◑	X	X	ERROR OF TEMPERATURE SENSOR IN THE INDOOR UNIT(OPEN/SHORT)
◑	X	◑	X	X	ERROR OF EVA IN,OUT,DISCHARGE SENSOR IN THE INDOOR UNIT(OPEN/SHORT)
X	X	X	◑	X	ERROR OF INDOOR FAN
◑	X	X	◑	X	ERROR OF OUTDOOR SENSOR(OUTDOOR TEMP./COND/DISCHARGE)
X	X	◑	◑	X	NO COMMUNICATION FOR 2 MINUTES BETWEEN INDOOR AND OUTDOOR UNIT
X	X	◑	◑	◑	ERROR OF OUTDOOR UNIT/SELF-DIAGNOSIS (Check error code at outdoor unit's or solution display)
X	X	X	◑	◑	DETECTION OF THE FLOAT SWITCH
◑	◑	◑	◑	◑	EEPROM ERROR/EEPROM OPTION ERROR
X	X	X	X	◑	NO MATCH BETWEEN OUTDOOR AND INDOOR

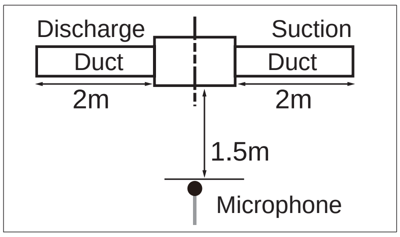
ROOM(10K)	Thermistor ROOM(10K)	EEV	electronic expansion valve	EVA-IN(10K)	Thermistor EVA IN(10K)
DISCHARGE(10K)	Thermistor DISCHARGE(10K)	SPI	S-Plasma ion	EVA-OUT(10K)	Thermistor EVA OUT(10K)

NOTE

1. This wiring diagram applies only to the indoor unit.
2. Symbols show as follow;
   BLK : black, RED : red, BLU : blue, WHT:white, YEL : yellow, BRN : brown, SKY : sky-blue, GRN : green
3. For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remotecontroller transmission F3-F4.
4. : Protective earth(screw), : Connector, n : The wire quantity

5 Sound Pressure Level

MSP Duct



Unit: dB(A)

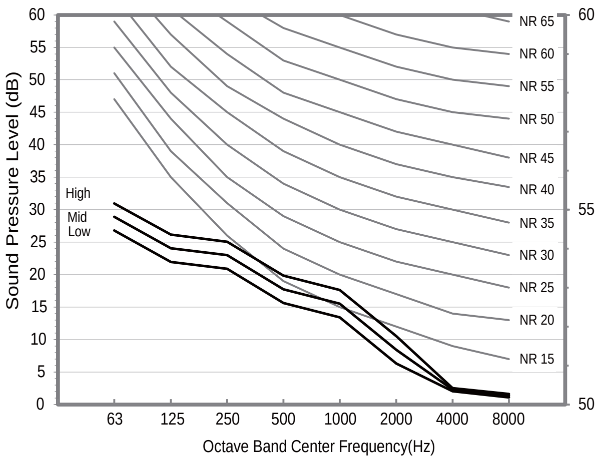
Model	High	Low
AM022*NMDEH/EU	23	19
AM028*NMDEH/EU	24	19
AM036*NMDEH/EU	29	24
AM045*NMDEH/EU	32	28

Note

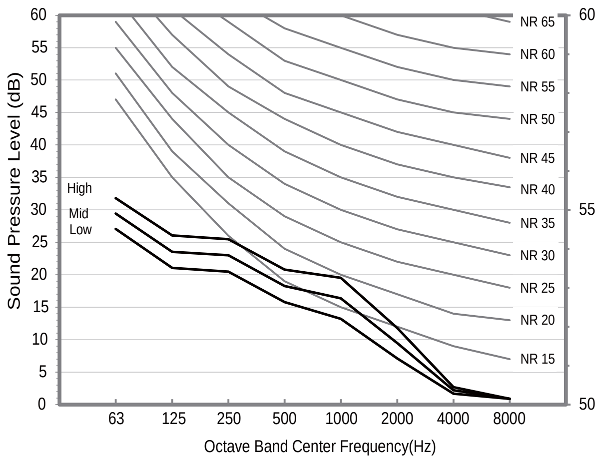
Specifications may be subject to change without prior notice.
Sound pressure level is obtained in an anechoic room.
Sound pressure level is a relative value, depending on the distance and acoustic environment.
Sound pressure level may differ depending on operation condition.
dBA = A-weighted sound pressure level
Reference acoustic pressure 0 dB= 20 uPa

NR curve

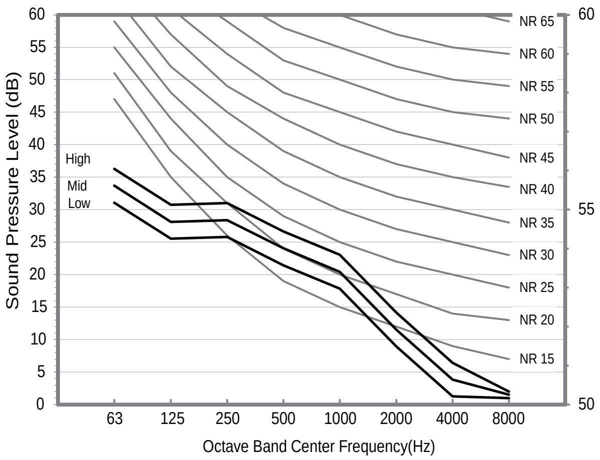
1) AM022*NMDEH/EU



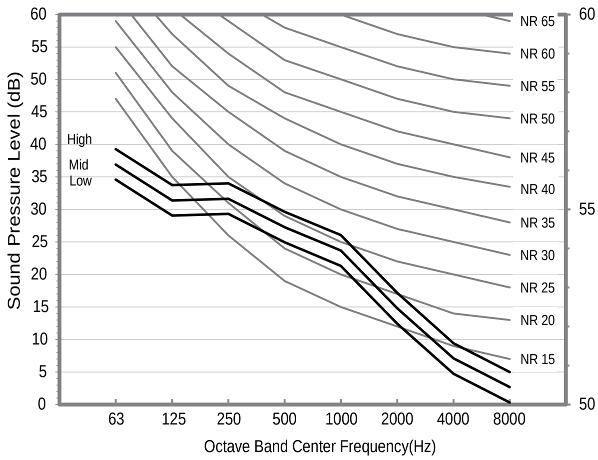
2) AM028*NMDEH/EU



3) AM036*NMDEH/EU

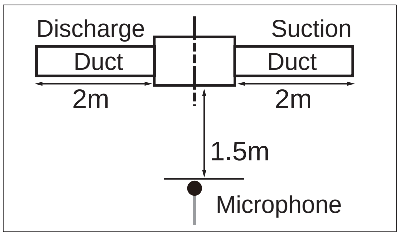


4) AM045*NMDEH/EU



5 Sound Pressure Level

MSP Duct



Unit: dB(A)

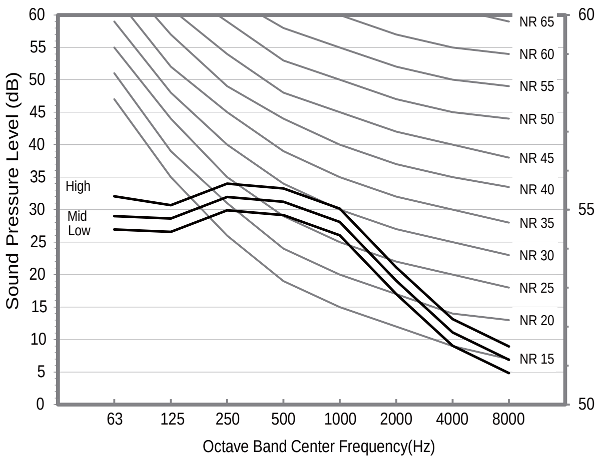
Model	High	Low
AM056*NMDEH/EU	35	31
AM071*NMDEH/EU	39	31
AM090*NMDEH/EU	40	34
AM112*NMDEH/EU	41	38

Note

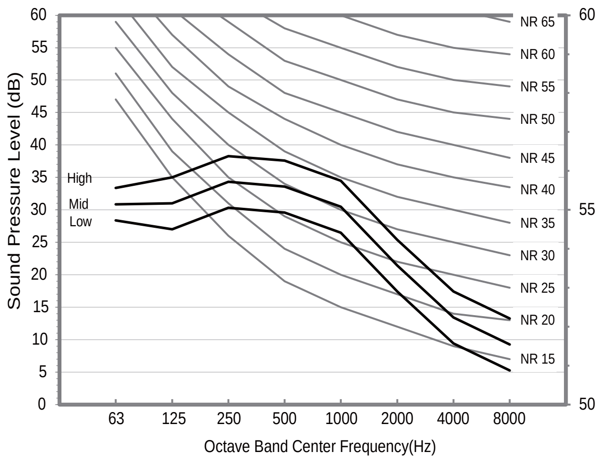
Specifications may be subject to change without prior notice.
Sound pressure level is obtained in an anechoic room.
Sound pressure level is a relative value, depending on the distance and acoustic environment.
Sound pressure level may differ depending on operation condition.
dBA = A-weighted sound pressure level
Reference acoustic pressure 0 dB= 20 uPa

NR curve

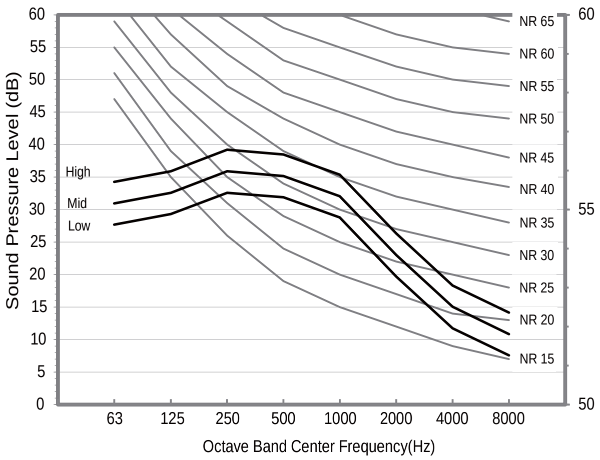
5) AM056*NMDEH/EU



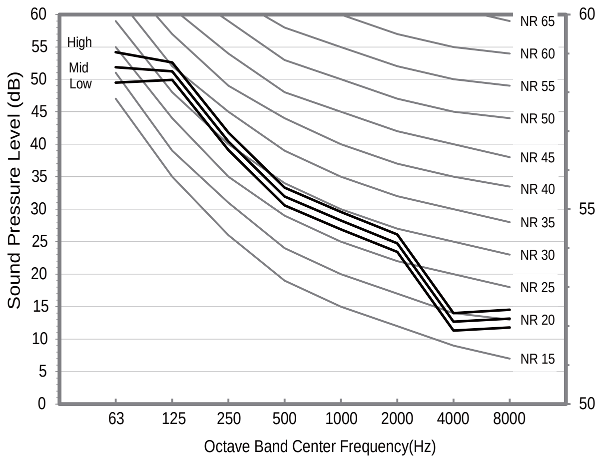
6) AM071*NMDEH/EU



7) AM090*NMDEH/EU

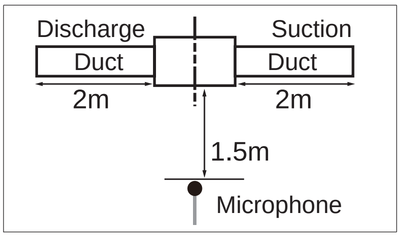


8) AM112*NMDEH/EU



5 Sound Pressure Level

MSP Duct



Unit: dB(A)

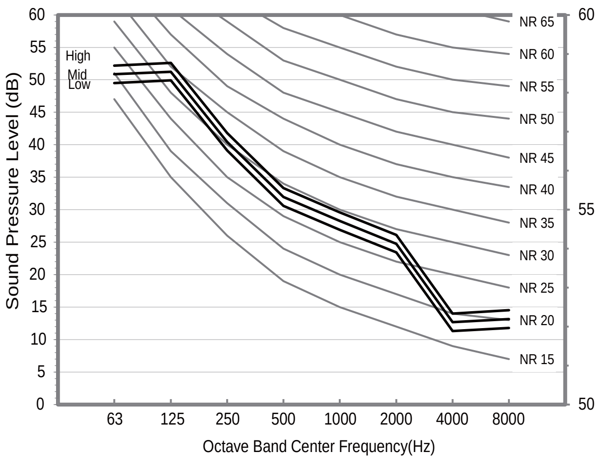
Model	High	Low
AM128*NMDEH/EU	41	38
AM140*NMDEH/EU	42	36
AM160*NMDEH*EU	43	36

Note

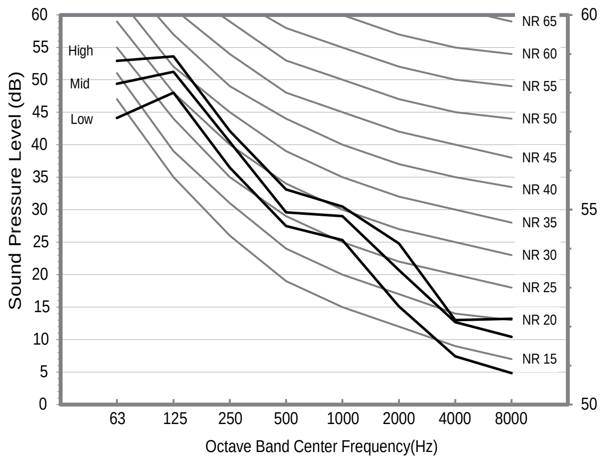
Specifications may be subject to change without prior notice.
Sound pressure level is obtained in an anechoic room.
Sound pressure level is a relative value, depending on the distance and acoustic environment.
Sound pressure level may differ depending on operation condition.
dBA = A-weighted sound pressure level
Reference acoustic pressure 0 dB= 20 uPa

NR curve

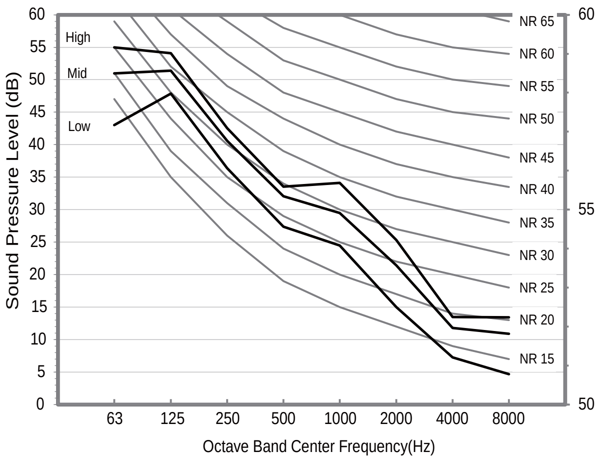
9) AM128*NMDEH/EU



10) AM140*NMDEH/EU



11) AM160KNMDEH*EU



6 Sound Power Level

MSP Duct

Unit: dB(A)

Model	Power
AM022*NMDEH/EU	47
AM028*NMDEH/EU	48
AM036*NMDEH/EU	53
AM045*NMDEH/EU	54

Note

. Specifications may be subject to change without prior notice.

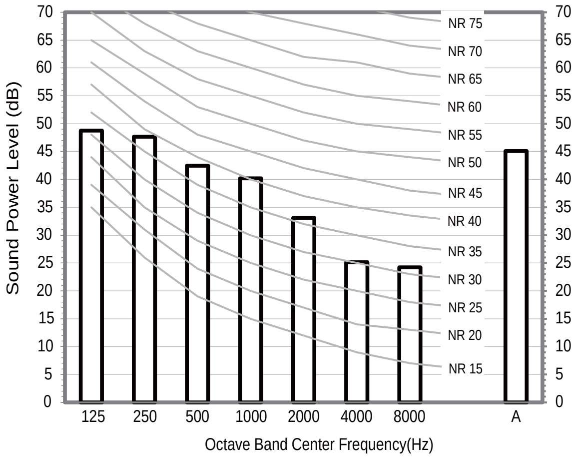
. Sound power level is an absolute value that a sound source generates.

. dBA = A-weighted sound power level.

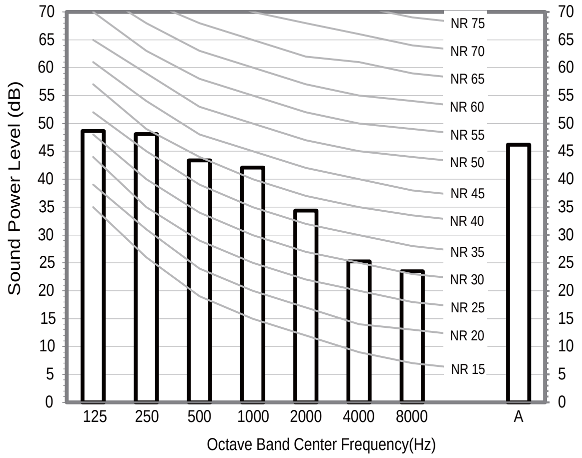
. Reference power : 1pW.

. Measured according to ISO 3741

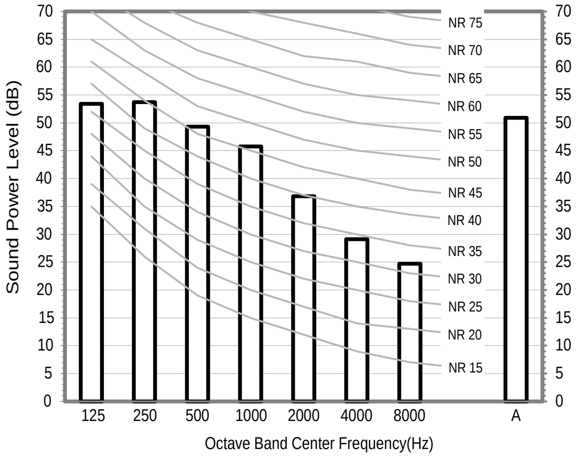
1) AM022*NMDEH/EU



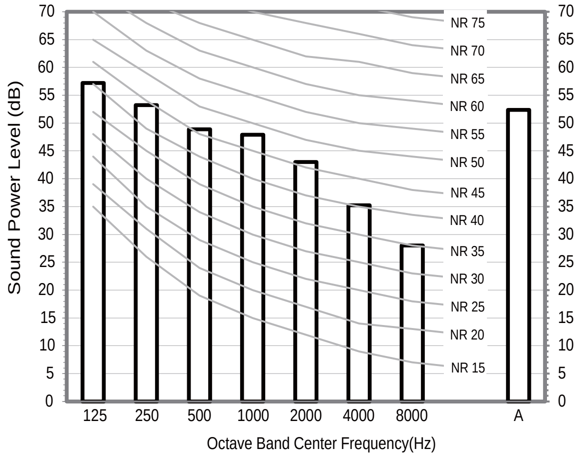
2) AM028*NMDEH/EU



3) AM036*NMDEH/EU



4) AM045*NMDEH/EU



6 Sound Power Level

MSP Duct

Unit: dB(A)

Model	Power
AM056*NMDEH/EU	57
AM071*NMDEH/EU	61
AM090*NMDEH/EU	63
AM112*NMDEH/EU	66

Note

. Specifications may be subject to change without prior notice.

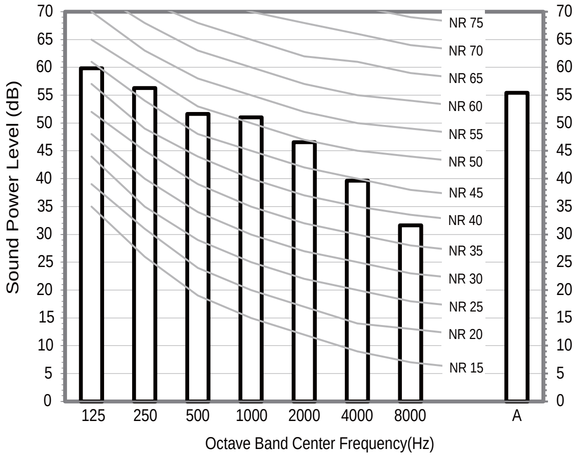
. Sound power level is an absolute value that a sound source generates.

. dBA = A-weighted sound power level.

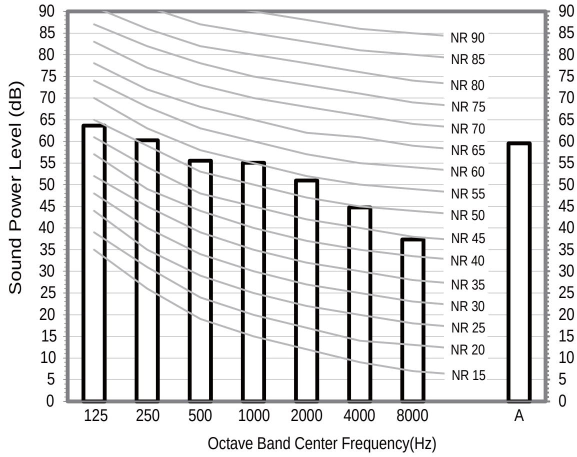
. Reference power : 1pW.

. Measured according to ISO 3741

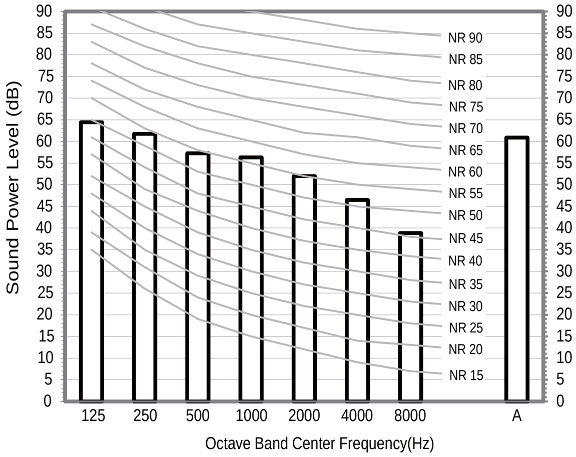
5) AM056*NMDEH/EU



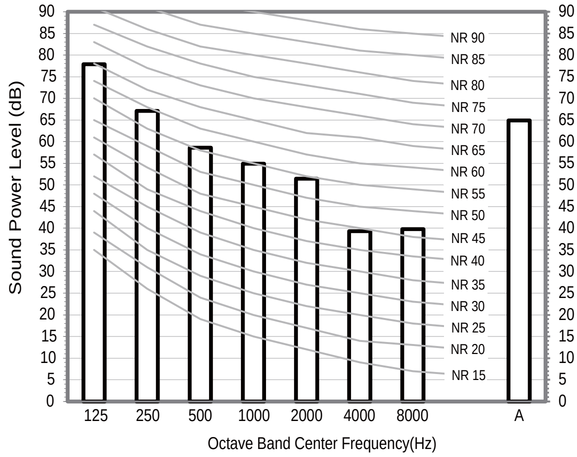
6) AM071*NMDEH/EU



7) AM090*NMDEH/EU



8) AM112*NMDEH/EU



6 Sound Power Level

MSP Duct

Unit: dB(A)

Model	Power
AM128*NMDEH/EU	66
AM140*NMDEH/EU	68
AM160KNMDEH*EU	69

Note

. Specifications may be subject to change without prior notice.

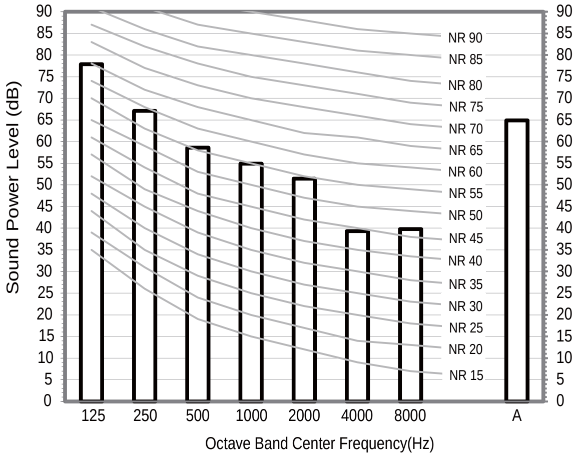
. Sound power level is an absolute value that a sound source generates.

. dBA = A-weighted sound power level.

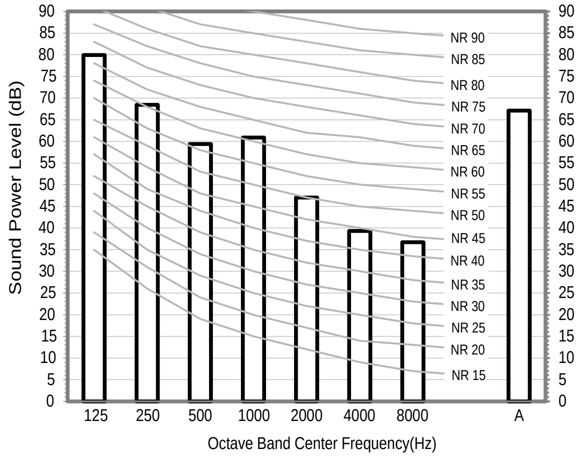
. Reference power : 1pW.

. Measured according to ISO 3741

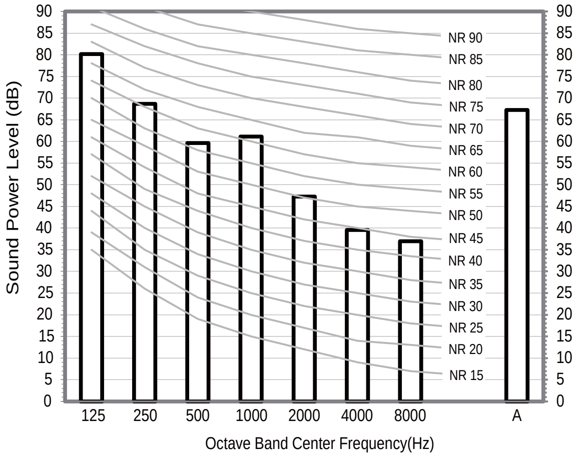
9) AM128*NMDEH/EU



10) AM140*NMDEH/EU



11) AM160KNMDEH*EU

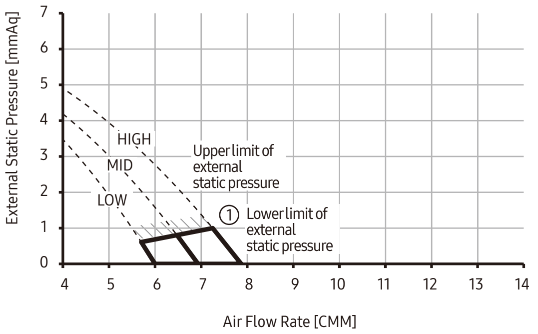


7 Fan Characteristics

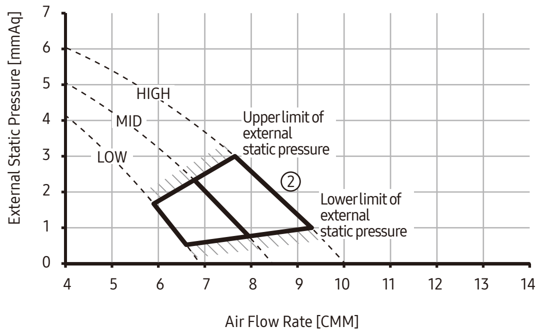
MSP Duct

1) AM022*NMDEH/EU

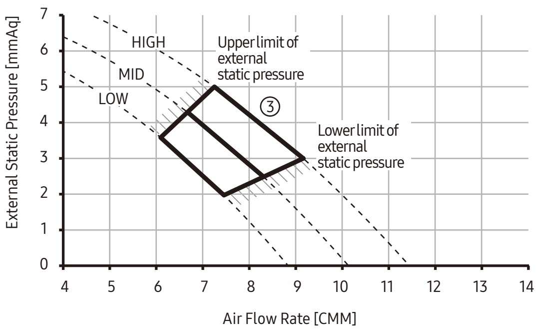
①	External Static Pressure(mmAq)	Option Code
	0	010054-1350B6-201616-331110



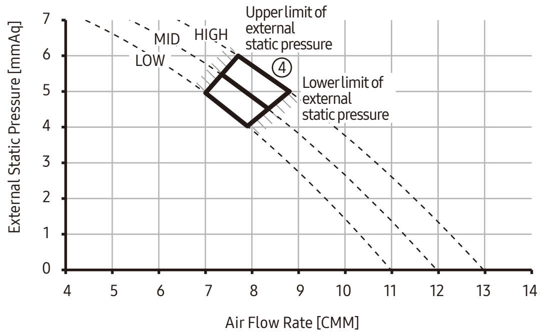
②	External Static Pressure(mmAq)	Option Code
	2	010054-1350EA-201616-331110



③	External Static Pressure(mmAq)	Option Code
	4	010054-13541E-201616-331110



④	External Static Pressure(mmAq)	Option Code
	6	010054-1355E4-201616-331110



Note

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

ESP = External Static Pressure

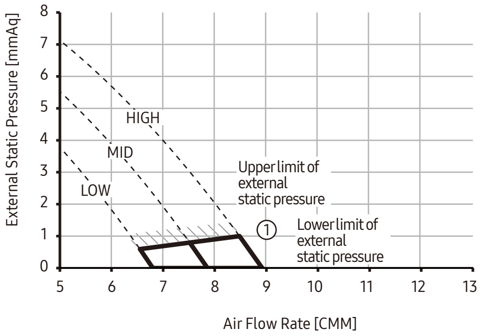
The graphs display the available external static pressure range of installed indoor units. Therefore, they do not reflect the actual change of external static pressure and airflow rate according to adjusted airflow (High-Mid-Low) of installed indoor units.

7 Fan Characteristics

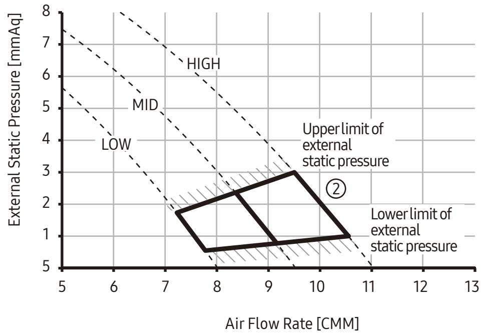
MSP Duct

2) AM028*NMDEH/EU

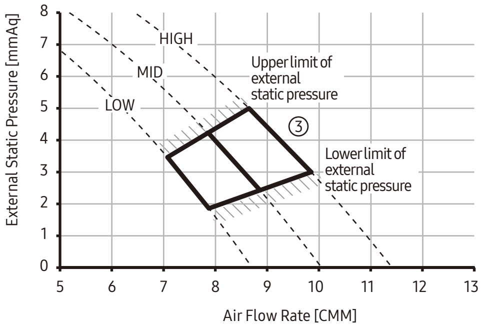
①	External Static Pressure(mmAq)	Option Code
	0	010054-1350E8-201C1C-331110



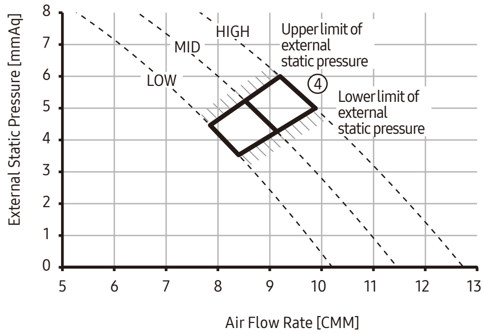
②	External Static Pressure(mmAq)	Option Code
	2	010054-13542C-201C1C-331110



③	External Static Pressure(mmAq)	Option Code
	4	010054-135562-201C1C-331110



④	External Static Pressure(mmAq)	Option Code
	6	010054-1359A9-201C1C-331110



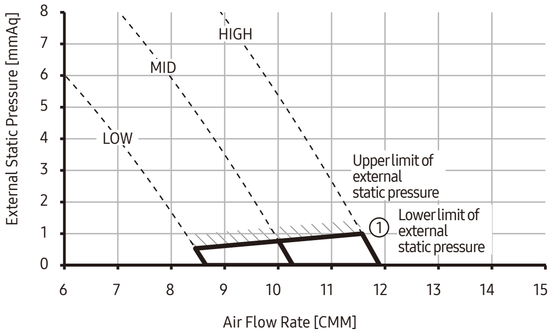
Note

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

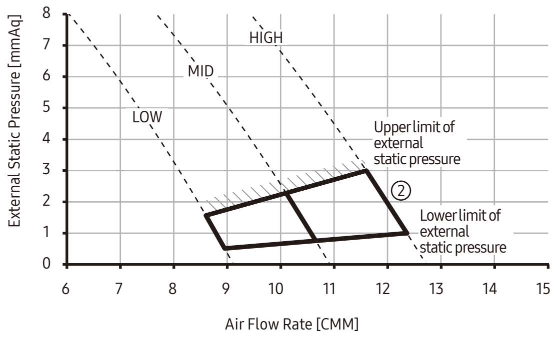
MSP Duct

3) AM036*NMDEH/EU

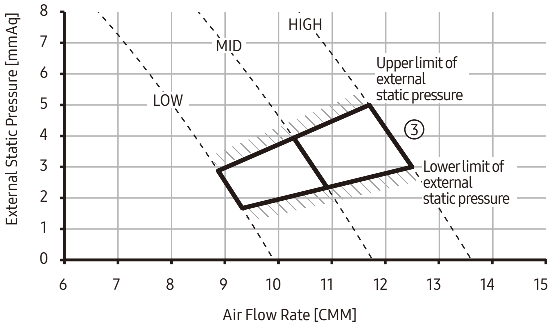
①	External Static Pressure(mmAq)	Option Code
	0	010054-1350EA-202424-331110



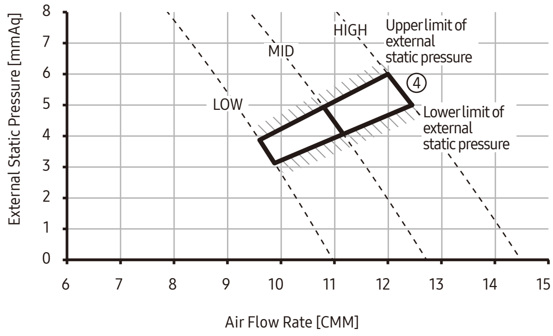
②	External Static Pressure(mmAq)	Option Code
	2	010054-1350F8-202424-331110



③	External Static Pressure(mmAq)	Option Code
	4	010054-13542C-202424-331110



④	External Static Pressure(mmAq)	Option Code
	6	010054-1354CF-202424-331110



Note

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

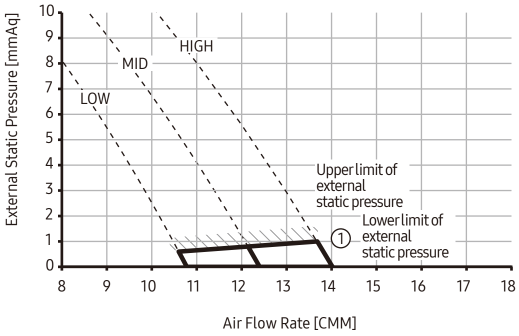
ESP = External Static Pressure

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.

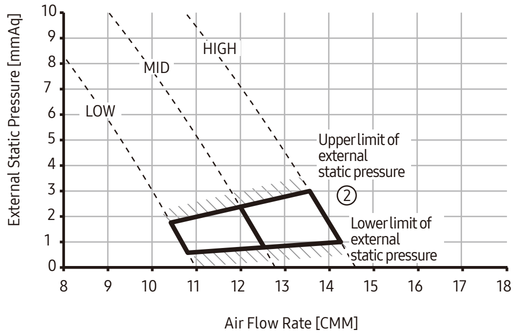
MSP Duct

4) AM045*NMDEH/EU

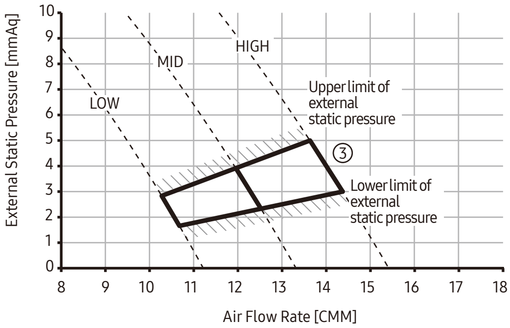
①	External Static Pressure(mmAq)	Option Code
	0	010054-125550-202D2D-331110



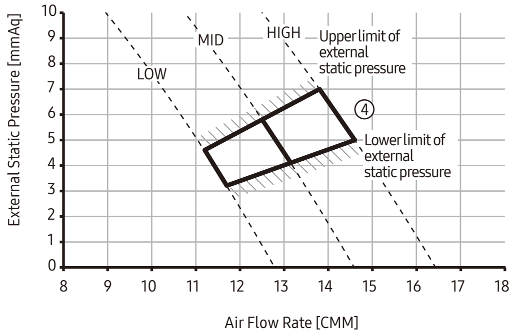
②	External Static Pressure(mmAq)	Option Code
	2	010054-125571-202D2D-331110



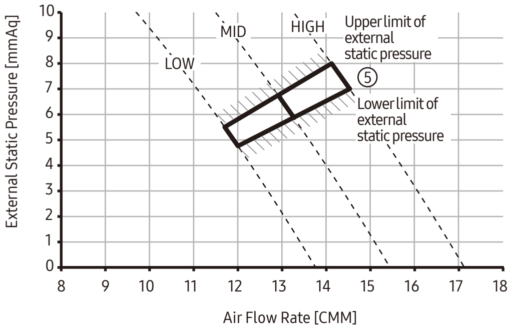
③	External Static Pressure(mmAq)	Option Code
	4	010054-125583-202D2D-331110



④	External Static Pressure(mmAq)	Option Code
	6	010054-1255A4-202D2D-331110



⑤	External Static Pressure(mmAq)	Option Code
	8	010054-125906-202D2D-331110



Note

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

ESP = External Static Pressure

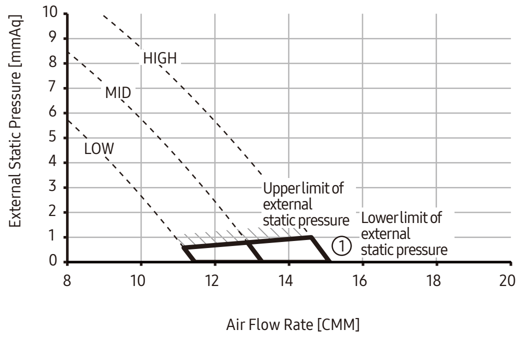
The graphs display the available external static pressure range of installed indoor units. Therefore, they do not reflect the actual change of external static pressure and airflow rate according to adjusted airflow (High-Mid-Low) of installed indoor units.

7 Fan Characteristics

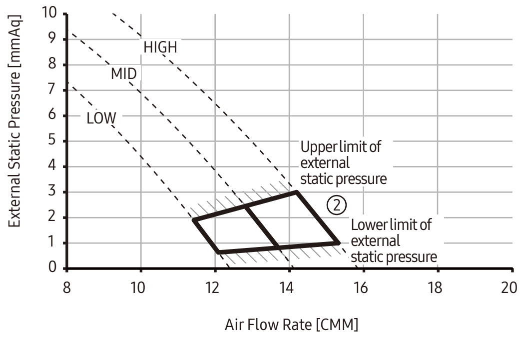
MSP Duct

5) AM056*NMDEH/EU

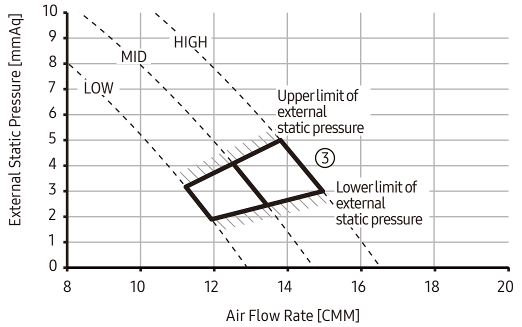
①	External Static Pressure(mmAq)	Option Code
	0	010054-125571-203838-331110



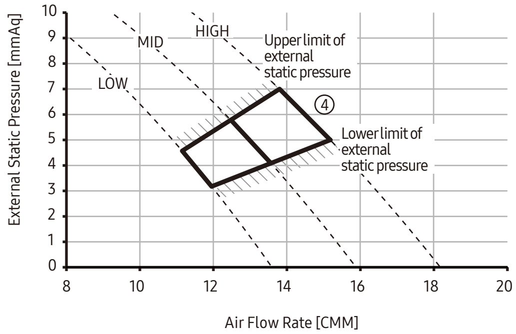
②	External Static Pressure(mmAq)	Option Code
	2	010054-125593-203838-331110



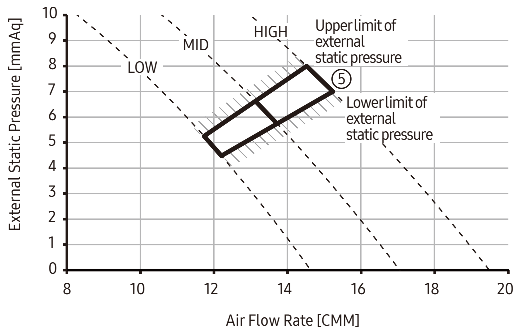
③	External Static Pressure(mmAq)	Option Code
	4	010054-1255C5-203838-331110



④	External Static Pressure(mmAq)	Option Code
	6	010054-1255F5-203838-331110



⑤	External Static Pressure(mmAq)	Option Code
	8	010054-125957-203838-331110



Note

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

ESP = External Static Pressure

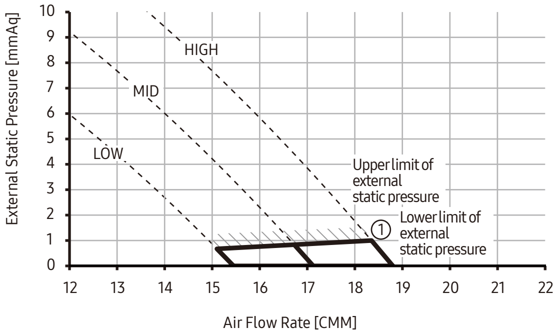
The graphs display the available external static pressure range of installed indoor units. Therefore, they do not reflect the actual change of external static pressure and airflow rate according to adjusted airflow (High-Mid-Low) of installed indoor units.

7 Fan Characteristics

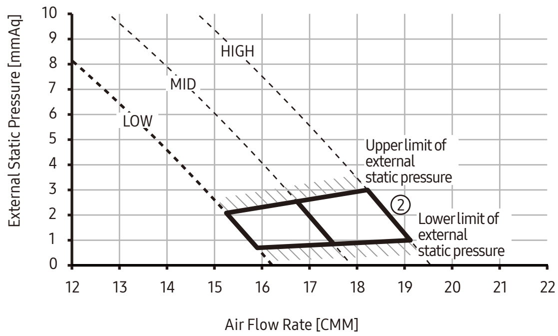
MSP Duct

6) AM071*NMDEH/EU

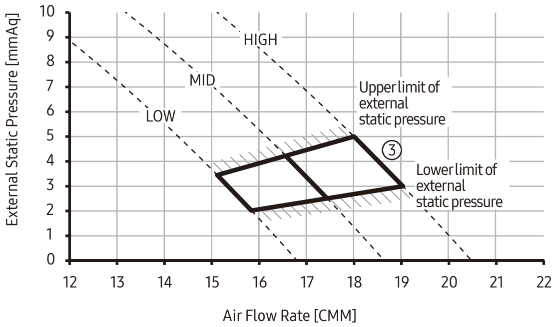
①	External Static Pressure(mmAq)	Option Code
	0	010054-125904-204747-331110



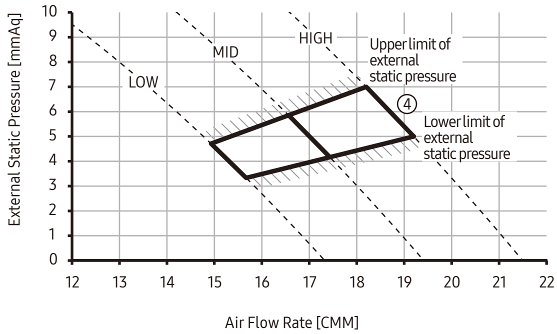
②	External Static Pressure(mmAq)	Option Code
	2	010054-125936-204747-331110



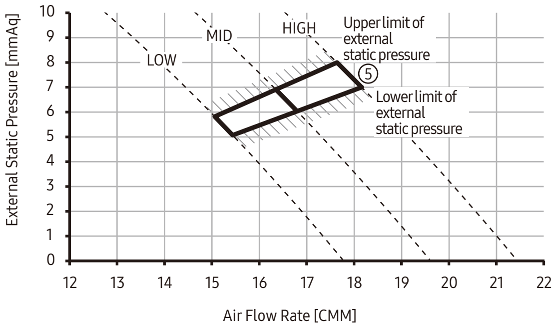
③	External Static Pressure(mmAq)	Option Code
	4	010054-125979-204747-331110



④	External Static Pressure(mmAq)	Option Code
	6	010054-125DF9-204747-331110



⑤	External Static Pressure(mmAq)	Option Code
	8	010054-125DFC-204747-331110



Note

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

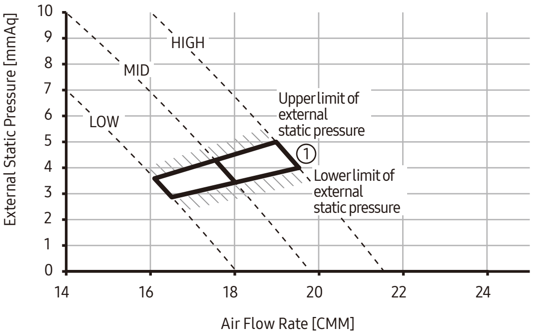
ESP = External Static Pressure

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.

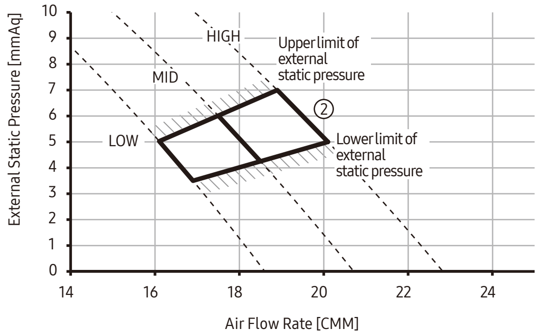
MSP Duct

7) AM090*NMDEH/EU

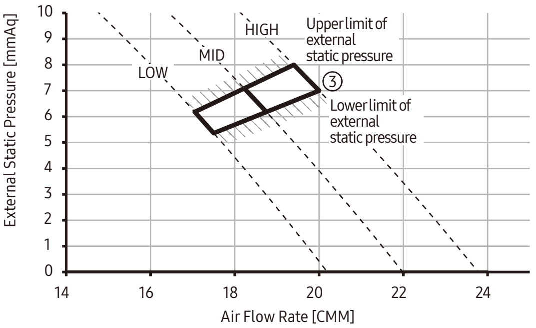
①	External Static Pressure(mmAq)	Option Code
	4	010054-125945-205A5A-331110



②	External Static Pressure(mmAq)	Option Code
	6	010054-125D29-205A5A-331110



③	External Static Pressure(mmAq)	Option Code
	8	010054-125DFD-205A5A-331110



Note

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

ESP = External Static Pressure

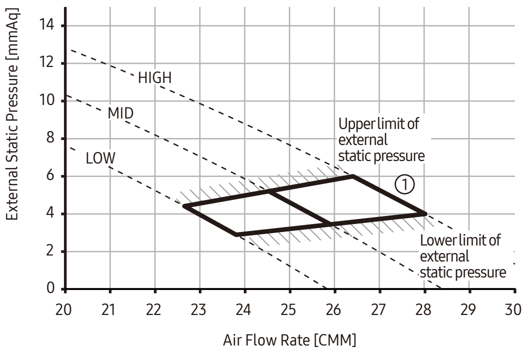
The graphs display the available external static pressure range of installed indoor units. Therefore, they do not reflect the actual change of external static pressure and airflow rate according to adjusted airflow (High-Mid-Low) of installed indoor units.

7 Fan Characteristics

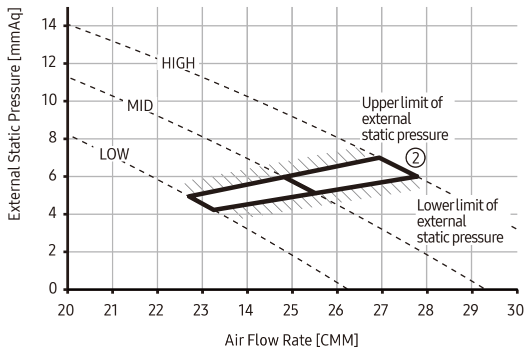
MSP Duct

8) AM112*NMDEH/EU

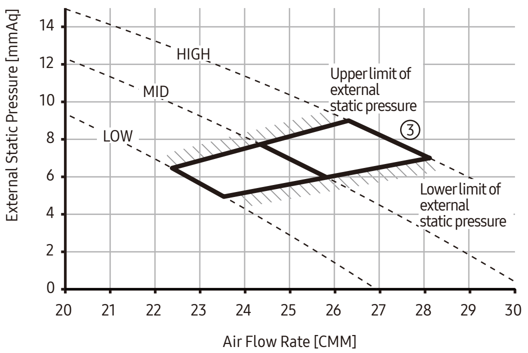
①	External Static Pressure(mmAq)	Option Code
	4	010054-122E04-207070-331110



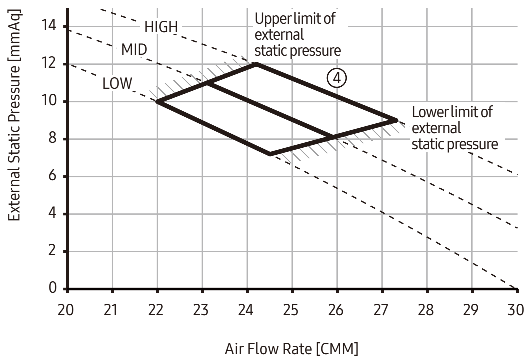
②	External Static Pressure(mmAq)	Option Code
	6	010054-122E26-207070-331110



③	External Static Pressure(mmAq)	Option Code
	8	010054-122EBB-207070-331110



④	External Static Pressure(mmAq)	Option Code
	10	010054-122FF0-207070-331110



Note

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

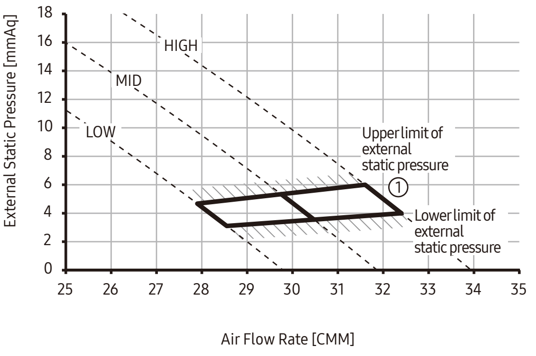
ESP = External Static Pressure

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.

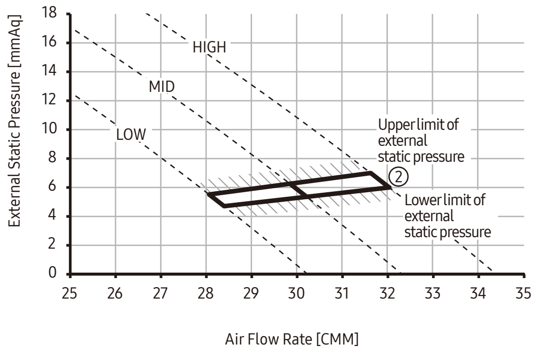
MSP Duct

9) AM128*NMDEH/EU

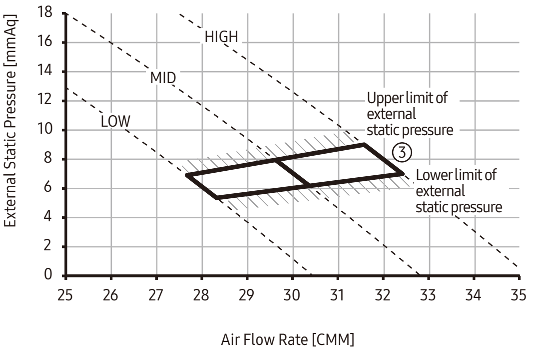
①	External Static Pressure(mmAq)	Option Code
	4	010054-12296C-208080-331110



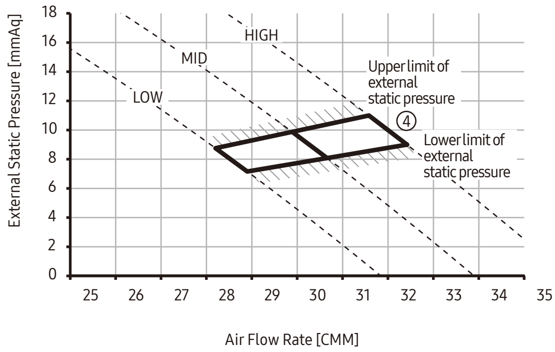
②	External Static Pressure(mmAq)	Option Code
	6	010054-12299E-208080-331110



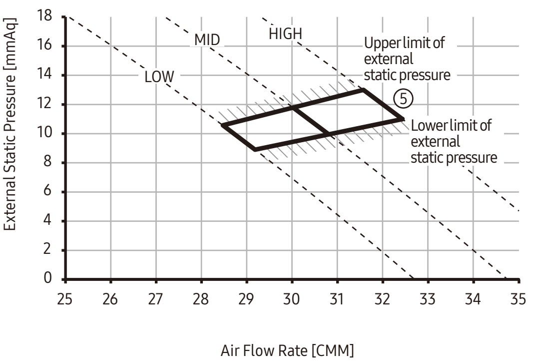
③	External Static Pressure(mmAq)	Option Code
	8	010054-122A80-208080-331110



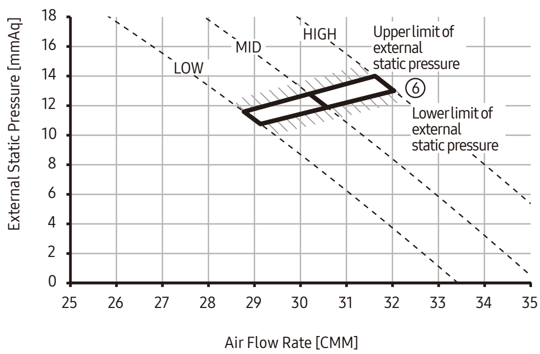
④	External Static Pressure(mmAq)	Option Code
	10	010054-122AE2-208080-331110



⑤	External Static Pressure(mmAq)	Option Code
	12	010054-122E14-208080-331110



⑥	External Static Pressure(mmAq)	Option Code
	14	010054-122E36-208080-331110



Note

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

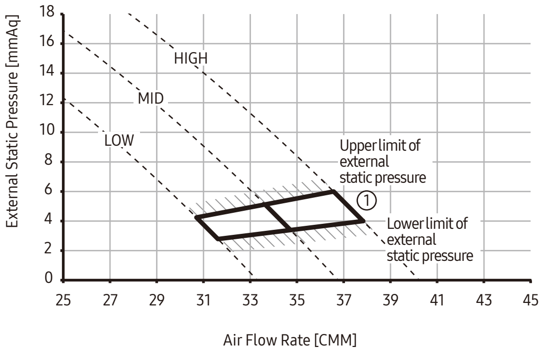
ESP = External Static Pressure

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.

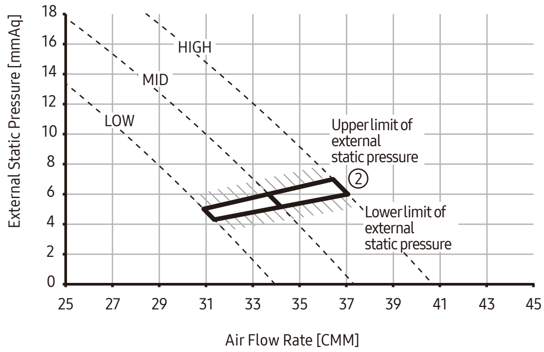
MSP Duct

10) AM140*NMDEH/EU

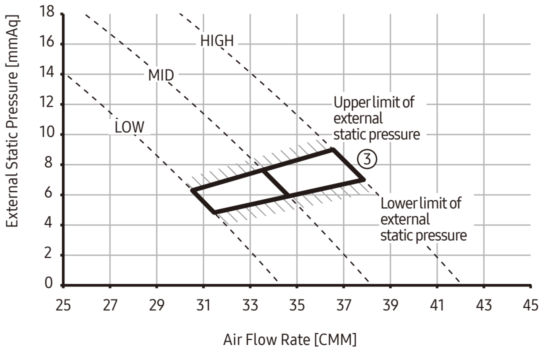
①	External Static Pressure(mmAq)	Option Code
	4	010054-1229CF-208C8C-331110



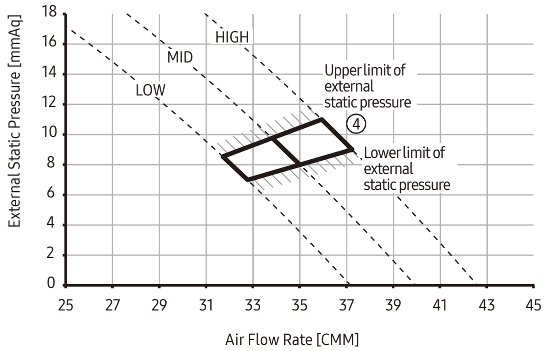
②	External Static Pressure(mmAq)	Option Code
	6	010054-122AF2-208C8C-331110



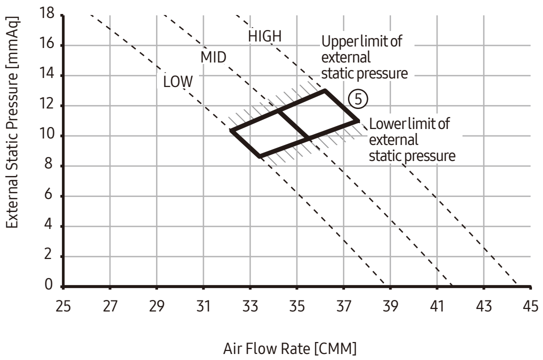
③	External Static Pressure(mmAq)	Option Code
	8	010054-122E24-208C8C-331110



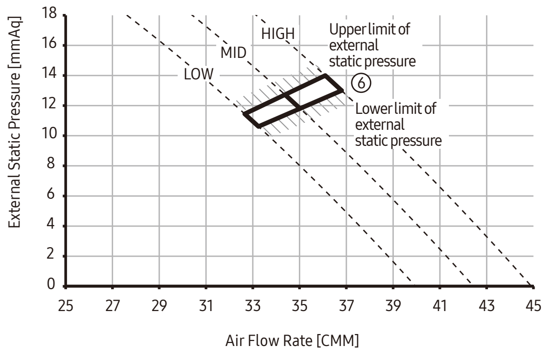
④	External Static Pressure(mmAq)	Option Code
	10	010054-122E47-208C8C-331110



⑤	External Static Pressure(mmAq)	Option Code
	12	010054-122EAA-208C8C-331110



⑥	External Static Pressure(mmAq)	Option Code
	14	010054-122EFC-208C8C-331110



Note

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

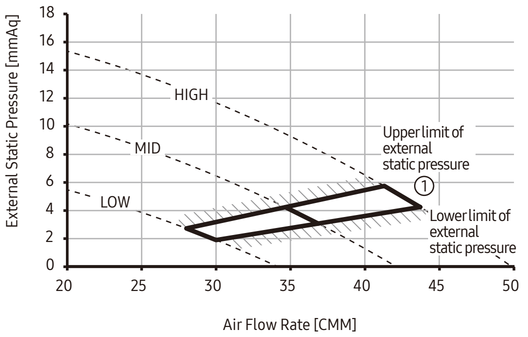
ESP = External Static Pressure

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.

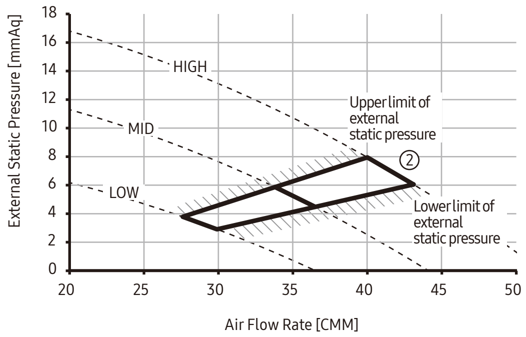
MSP Duct

11) AM160KNMDEH*EU

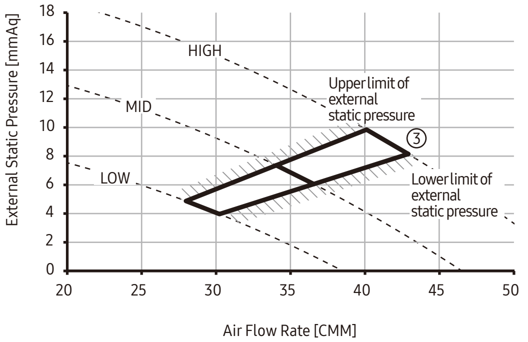
	External Static Pressure(mmAq)	Option Code
①	4	010054-125E79-20A0A0-331110



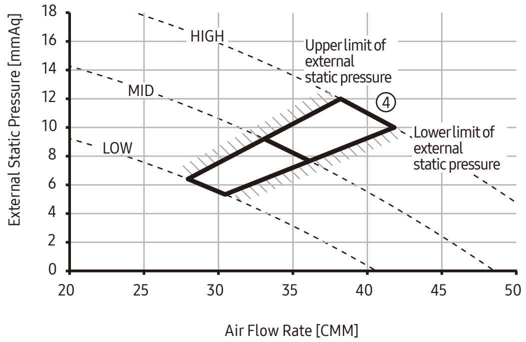
	External Static Pressure(mmAq)	Option Code
②	6	010054-125EAA-20A0A0-331110



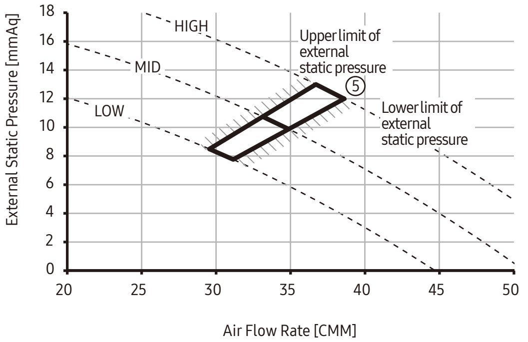
	External Static Pressure(mmAq)	Option Code
③	8	010054-125EDB-20A0A0-331110



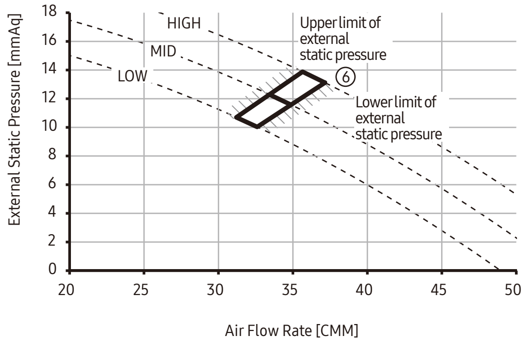
	External Static Pressure(mmAq)	Option Code
④	10	010054-125EFC-20A0A0-331110



	External Static Pressure(mmAq)	Option Code
⑤	12	010054-125EFD-20A0A0-331110



	External Static Pressure(mmAq)	Option Code
⑥	14	010054-125EFE-20A0A0-331110



Note

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

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

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	57.0	57.0	57.0	89.0	89.0
	Shipping Weight		kg	64.0	64.0	64.0	99.0	99.0
	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.

* Heat Exchanger type : Fin & Tube (Fin : Al, Tube : Cu)

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
	23	19.7	17.6	23.3	19.6	26.5	21.2	28.0	21.8	29.9	22.8	32.7	23.2	33.7	22.6
	25	19.7	17.6	23.3	19.6	26.5	21.2	28.0	21.8	29.9	22.8	32.7	23.0	33.7	22.8
	27	19.7	17.6	23.3	19.6	26.5	21.2	28.0	21.8	29.9	22.8	32.7	23.0	33.7	22.8
	29	19.7	17.6	23.3	19.6	26.5	21.2	28.0	21.8	29.9	22.8	32.7	23.0	33.7	22.8
	31	19.7	17.6	23.3	19.6	26.5	21.2	28.0	21.8	29.9	22.8	32.7	23.2	33.7	22.8
	33	19.7	17.6	23.3	19.6	26.5	21.2	28.0	21.8	29.9	22.8	32.7	23.5	33.7	22.8
	35	19.7	17.6	23.3	19.6	26.5	21.2	28.0	21.8	29.9	22.6	32.7	23.5	33.7	23.0
	37	19.4	17.3	23.0	19.3	26.3	20.9	28.0	21.8	29.7	22.7	32.2	23.1	33.2	22.5
	39	19.2	17.1	22.7	19.1	26.3	20.9	27.9	21.6	29.5	22.5	31.8	23.4	32.8	22.4
	42	18.8	16.8	22.2	18.7	25.8	20.5	27.4	21.3	29.0	22.2	31.2	22.9	32.2	22.1
	44	18.5	16.5	21.9	18.4	25.4	20.2	27.0	21.0	28.6	21.9	30.8	22.6	31.7	21.8
	46	18.2	16.2	21.5	18.1	24.9	19.8	26.5	20.5	28.0	21.4	30.2	22.1	31.0	21.3

2 Capacity table

HSP Duct

2) Heating

TC : Total Capacity(kW)

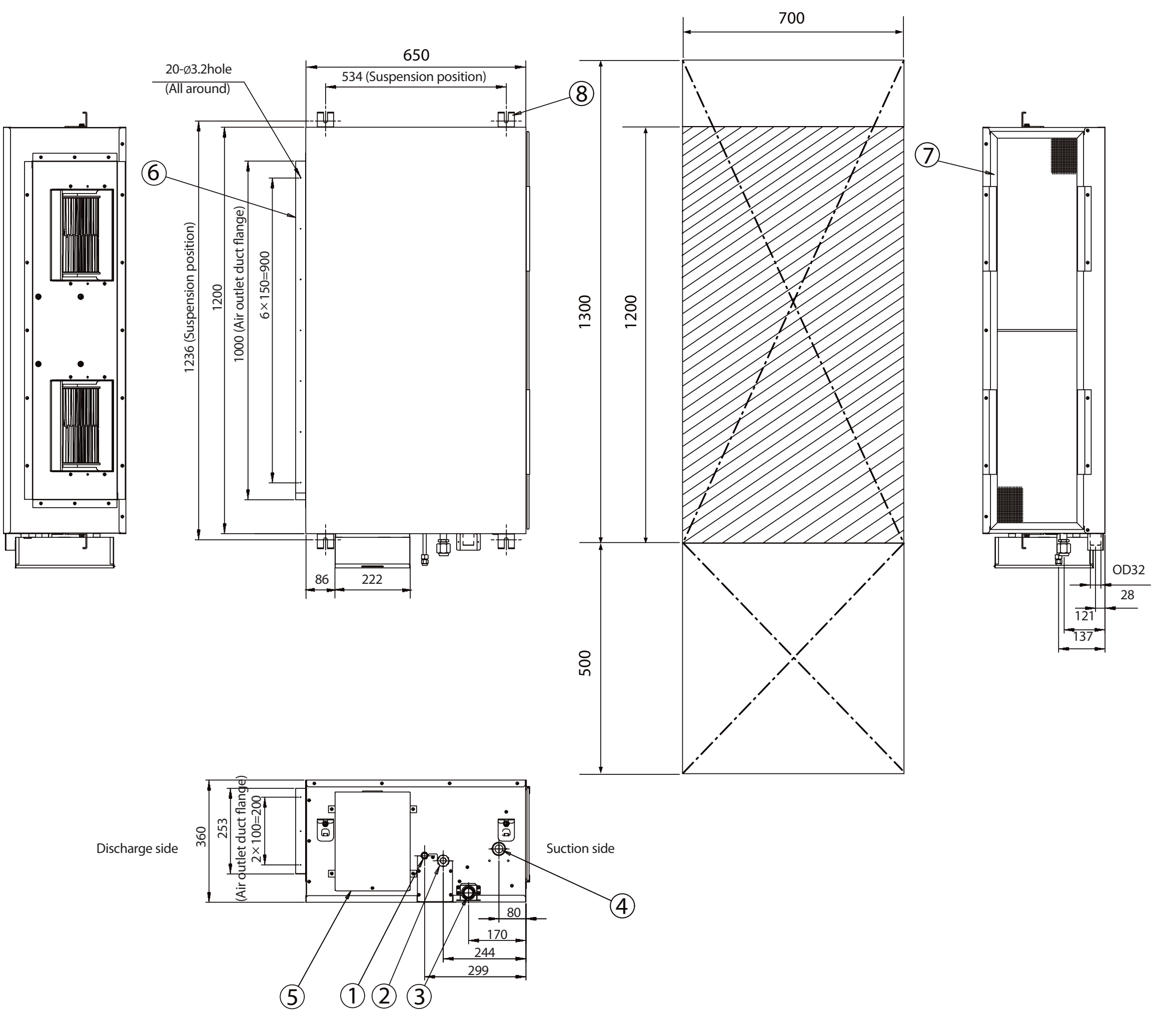
Model	Outdoor temperature (°C, DB)		Indoor temperature (°C, DB)				
			16.0	18.0	20.0	22.0	24.0
			TC	TC	TC	TC	TC
	DB	WB	kW	kW	kW	kW	kW
112	-20	-21	7.2	6.9	6.6	6.5	6.5
	-17	-18	8.0	7.6	7.4	7.3	7.3
	-15	-16	8.4	8.1	7.9	7.7	7.5
	-12	-13	8.8	8.6	8.4	8.2	8.1
	-10	-11	9.2	9.0	8.9	8.8	8.7
	-7	-8	9.7	9.6	9.4	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	270	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

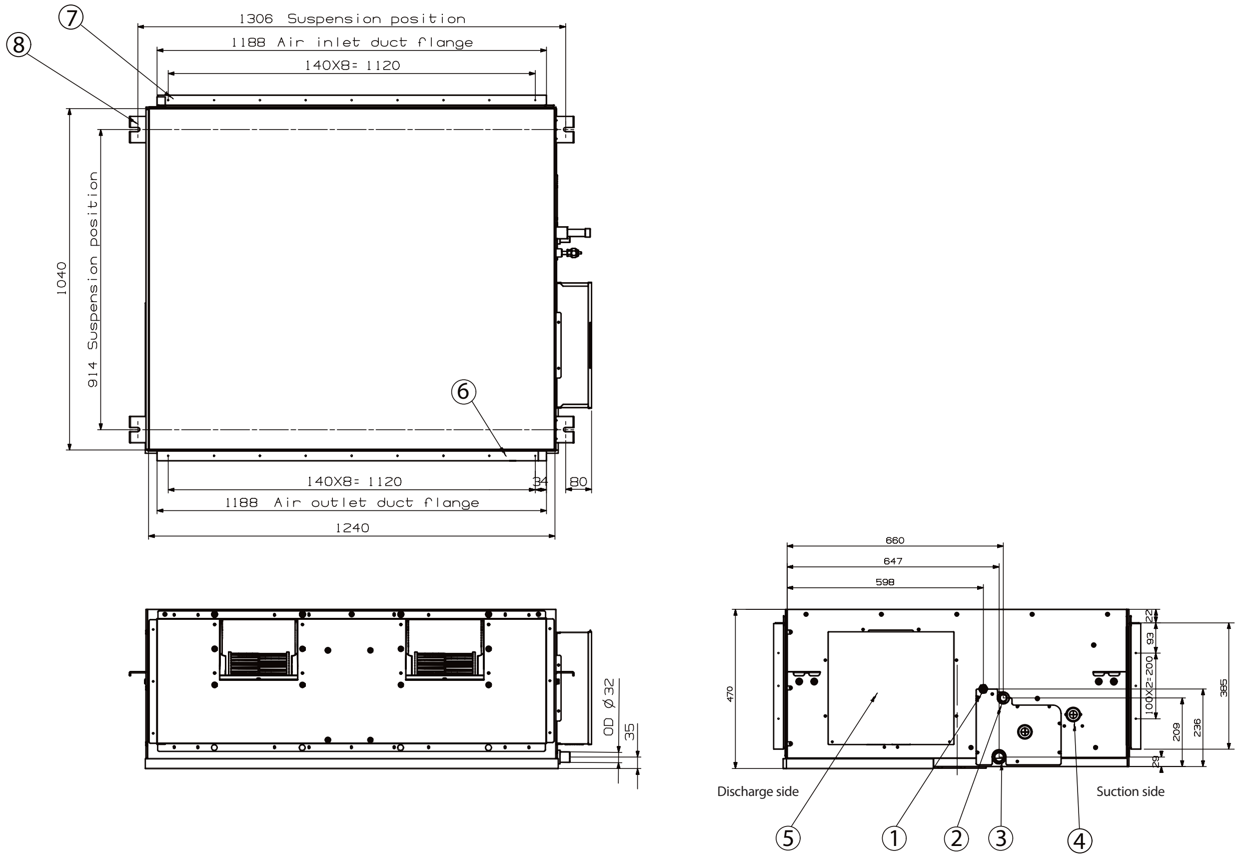


No.	Name	Description
①	Liquid pipe connection	Ø9.52 (3/8”)
②	Gas pipe connection	Ø15.88 (5/8”)
③	Drain pipe connection without optional drain pump kits	VP25 (OD 32, ID 25)
④	Drain pipe connection with optional drain pump kits	VP25 (OD 32, ID 25)
⑤	Power supply/Communication connection	
⑥	Air discharge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

3 Dimensional drawing

HSP Duct

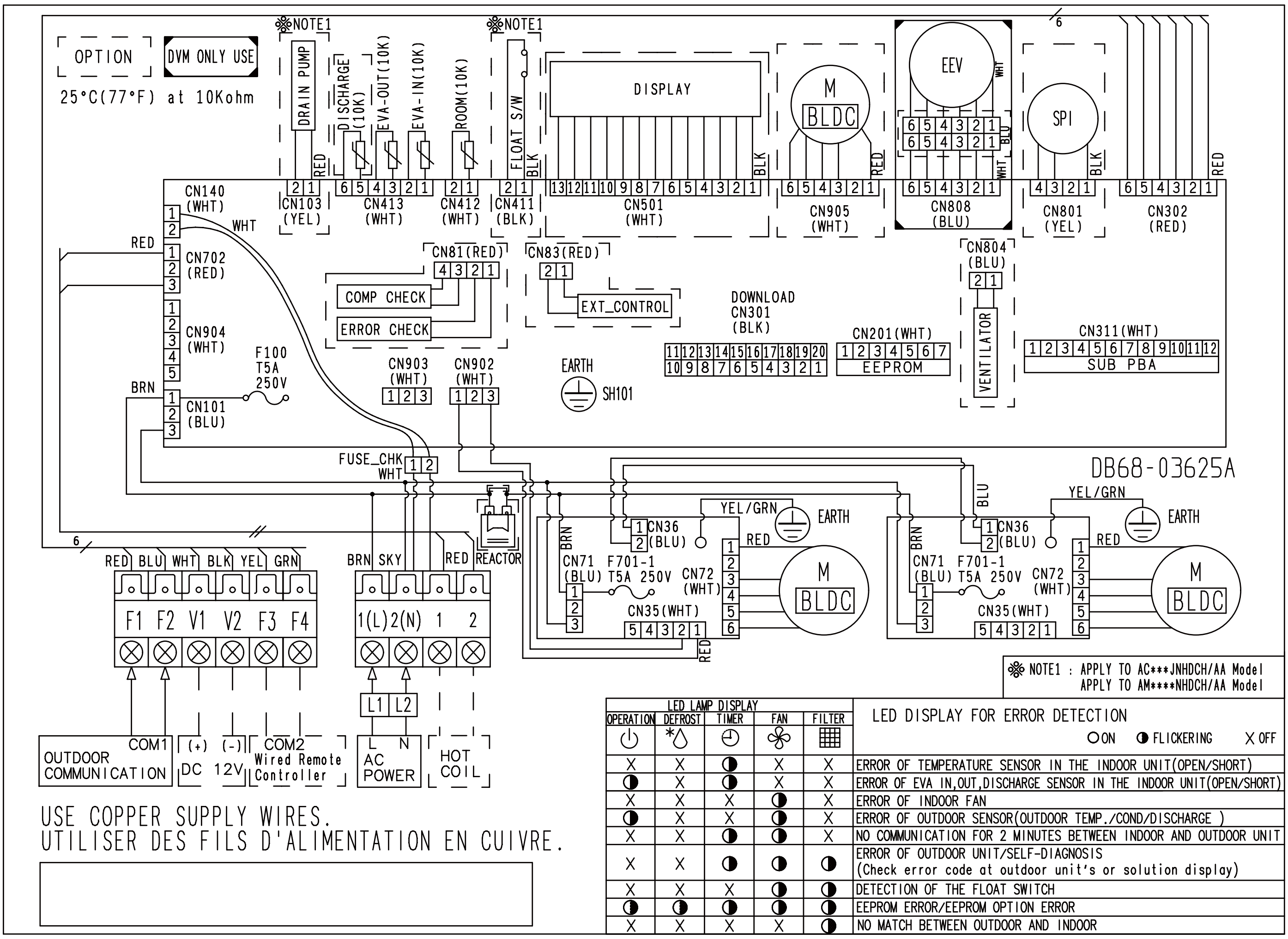
2) AM220/280FNHDEH✳✳✳ Unit:mm



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

HSP Duct

AM112/128/140FNHDEH/EU



LED DISPLAY FOR ERROR DETECTION

○ ON ◑ FLICKERING X OFF

LED LAMP DISPLAY					
OPERATION	DEFROST	TIMER	FAN	FILTER	
X	X	◑	X	X	ERROR OF TEMPERATURE SENSOR IN THE INDOOR UNIT(OPEN/SHORT)
◑	X	◑	X	X	ERROR OF EVA IN,OUT,DISCHARGE SENSOR IN THE INDOOR UNIT(OPEN/SHORT)
X	X	X	◑	X	ERROR OF INDOOR FAN
◑	X	X	◑	X	ERROR OF OUTDOOR SENSOR(OUTDOOR TEMP./COND/DISCHARGE)
X	X	◑	◑	X	NO COMMUNICATION FOR 2 MINUTES BETWEEN INDOOR AND OUTDOOR UNIT
X	X	◑	◑	◑	ERROR OF OUTDOOR UNIT/SELF-DIAGNOSIS (Check error code at outdoor unit's or solution display)
X	X	X	◑	◑	DETECTION OF THE FLOAT SWITCH
◑	◑	◑	◑	◑	EEPROM ERROR/EEPROM OPTION ERROR
X	X	X	X	◑	NO MATCH BETWEEN OUTDOOR AND INDOOR

USE COPPER SUPPLY WIRES.
UTILISER DES FILS D'ALIMENTATION EN CUIVRE.

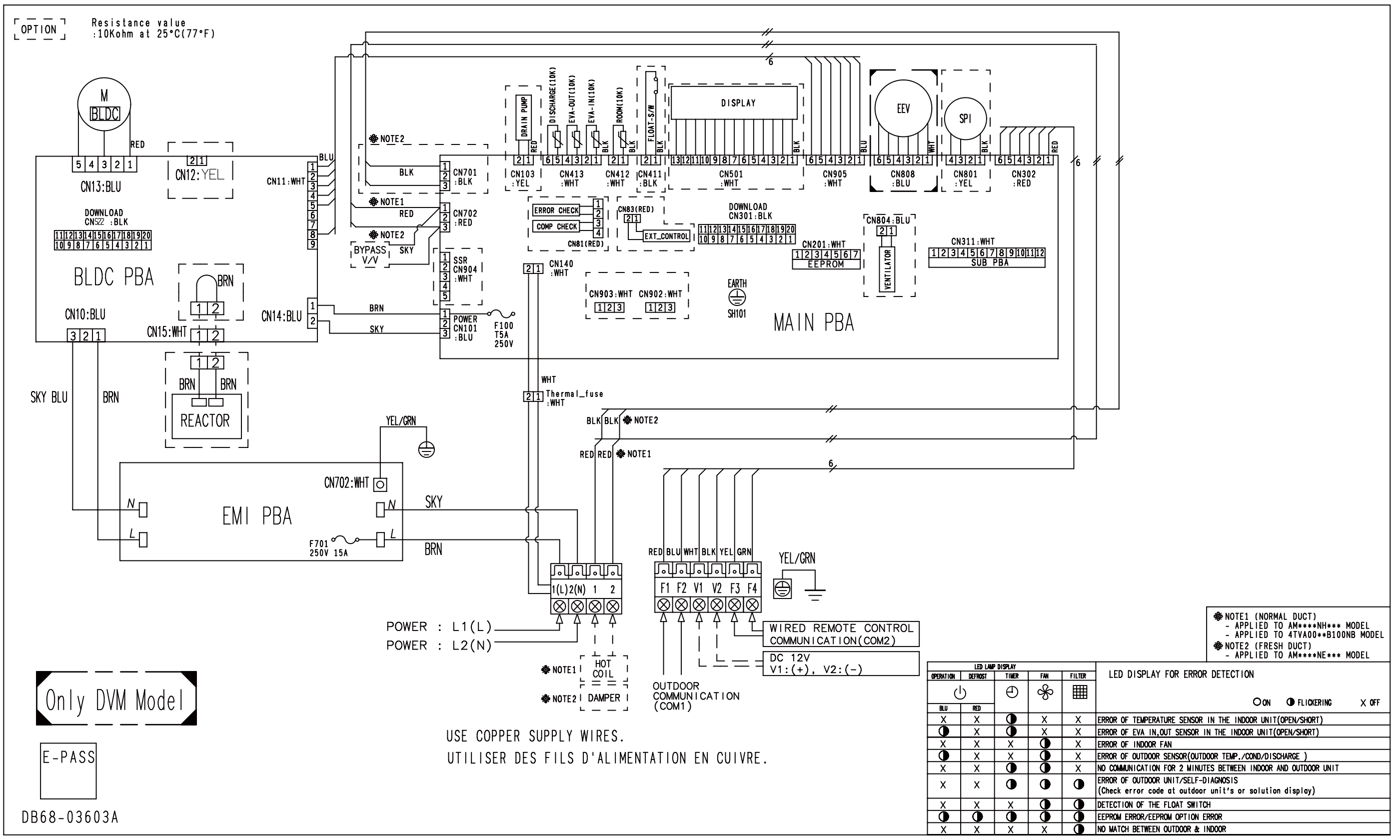
NOTE

1. This wiring diagram applies only to the indoor unit.
2. Symbols show as follow;
   BLK : black, RED : red, BLU : blue, WHT:white, YEL : yellow, BRN : brown, SKY : sky-blue, GRN : green
3. For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remotecontroller transmission F3-F4.
4. ⏚ : Protective earth(screw), ☐☐☐☐ : Connector, n/ : The wire quantity

4 Electrical Wiring Diagram

HSP Duct

AM220/280FNHDEH/EU



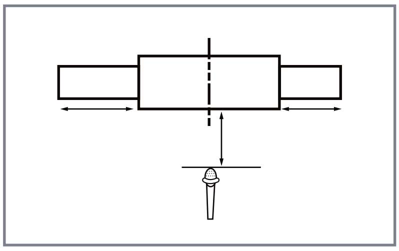
NOTE

1. This wiring diagram applies only to the indoor unit.
2. Symbols show as follow;
   BLK : black, RED : red, BLU : blue, WHT:white, YEL : yellow, BRN : brown, SKY : sky-blue, GRN : green
3. For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remotecontroller transmission F3-F4.
4. : Protective earth(screw), : Connector, n : The wire quantity

5 Sound pressure level

HSP Duct

1) Operation sound level



Unit : dB(A)

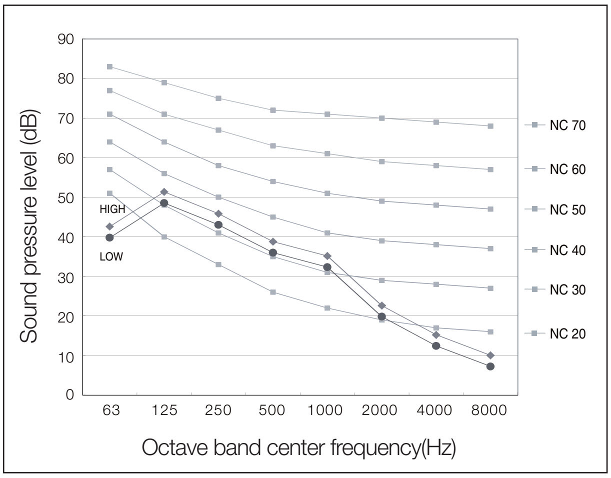
Model	High	Low
AM112FNHDEH✳✳✳	43	39
AM128FNHDEH✳✳✳	45	42
AM140FNHDEH✳✳✳	46	44
AM220FNHDEH✳✳✳	45	41
AM280FNHDEH✳✳✳	48	43

Note

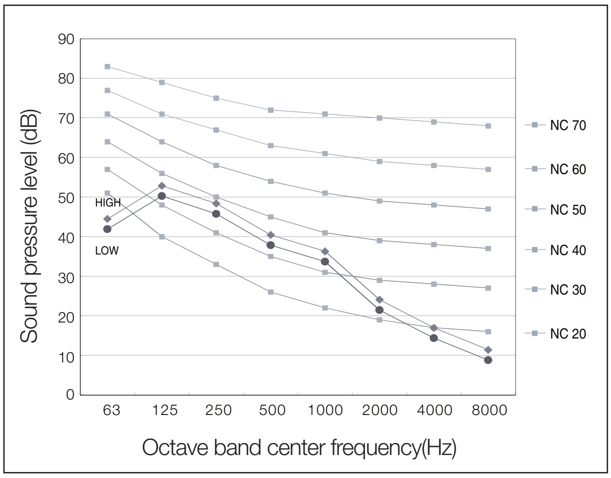
Specifications may be subject to change without prior notice.
Sound pressure level is obtained in an anechoic room.
Sound pressure level is a relative value, depending on the distance and acoustic environment.
Sound pressure level may differ depending on operation condition.
dBA = A-weighted sound pressure level
Reference acoustic pressure 0 dB= 20 uPa

2) NC curves

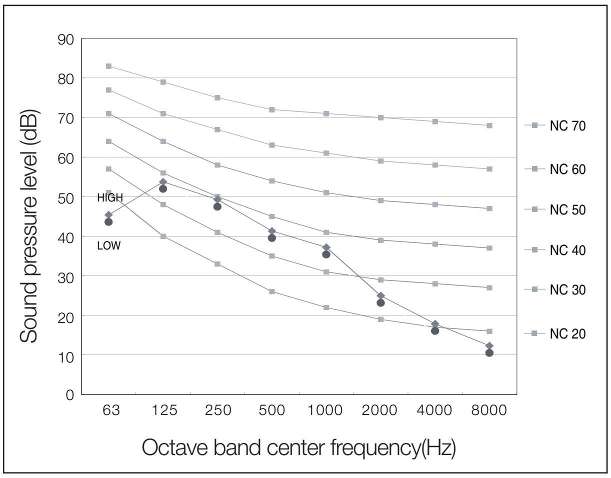
(1) AM112FNHDEH✳✳✳



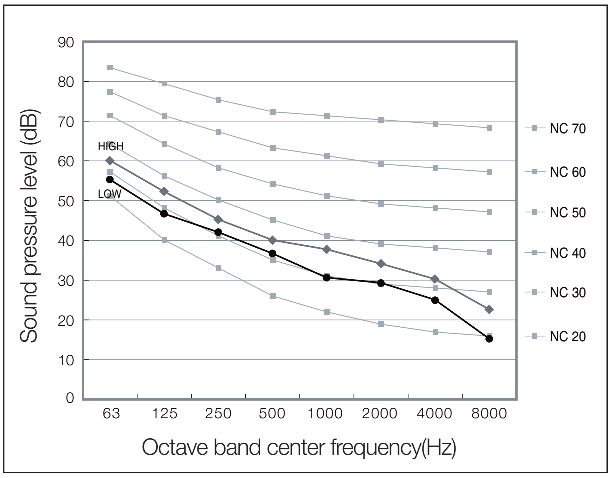
(2) AM128FNHDEH✳✳✳



3) AM140FNHDEH✳✳✳

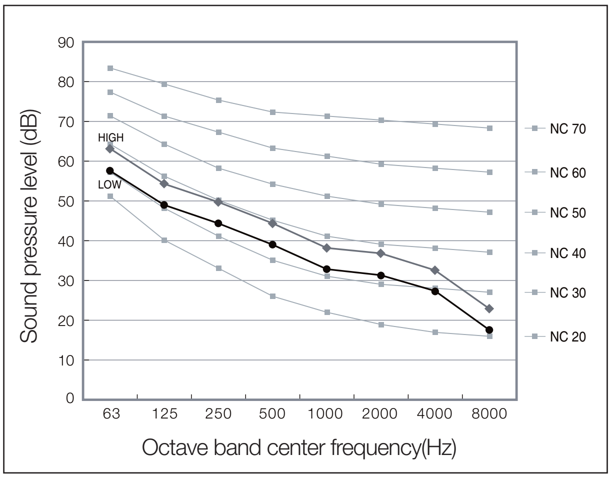


(4) AM220FNHDEH✳✳✳



HSP Duct

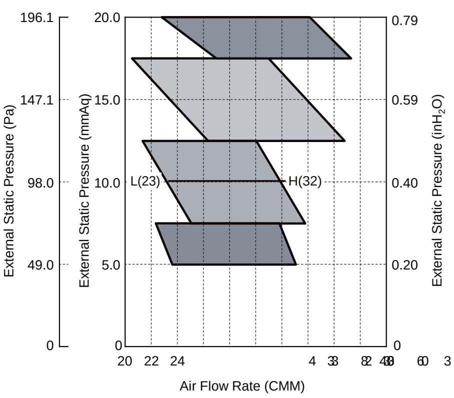
(5) AM280FNHDEH ***



Fan Characteristics

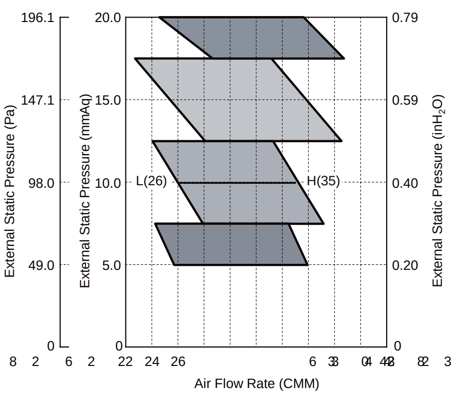
HSP Duct

1) AM112FNHDEH/EU



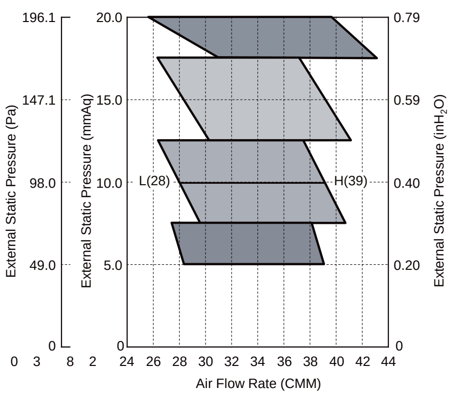
ESP (mmAq)	Option code
5	010054-1355E8-207070-331110
10	010054-13598F-207070-331110
15	010054-135E19-207070-331110
20	010054-135F70-207070-331110

2) AM128FNHDEH/EU



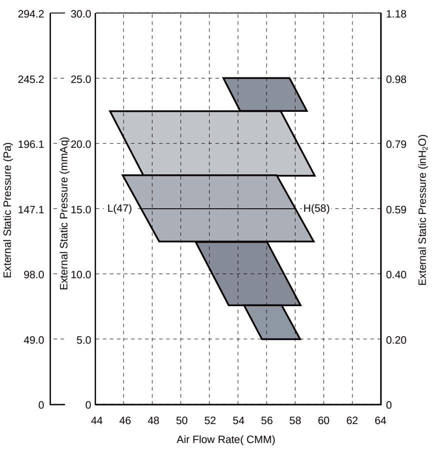
ESP (mmAq)	Option code
5	010054-13591C-208080-331110
10	010054-135AC4-208080-331110
15	010054-135E4E-208080-331110
20	010054-135F95-208080-331110

3) AM140FNHDEH/EU



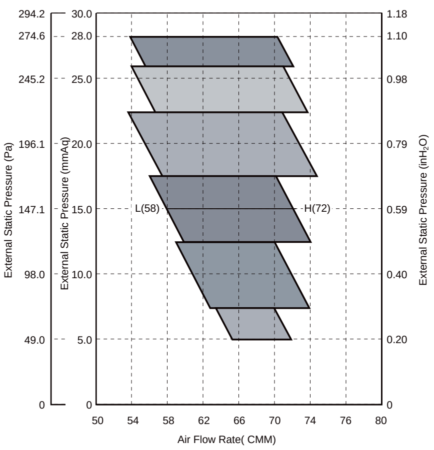
ESP (mmAq)	Option code
5	010054-13595E-208C8C-311110
10	010054-135E09-208C8C-311110
15	010054-135F71-208C8C-331110
20	010054-135FB7-208C8C-331110

4) AM220FNHDEH/EU



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/EU



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

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

Big Duct

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 / 39 / 35	44 / 40 / 36
	Power	Cooling		80	81
Dimension	Net Weight		kg	82.5	82.5
	Shipping Weight		kg	92.0	92.0
	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.
* Heat Exchanger type : Fin & Tube (Fin : Al, Tube : Cu)

Big Duct

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity

Model	Outdoor temperature (ºC, DB)	Indoor temperature (ºC, 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
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 (ºC)		Indoor temperature (ºC, DB)				
			16.0	18.0	20.0	22.0	24.0
			TC	TC	TC	TC	TC
	DB	WB	kW	kW	kW	kW	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

Big Duct

AM180JNHFKH/EU, AM224JNHFKH/EU

Units : mm / inches

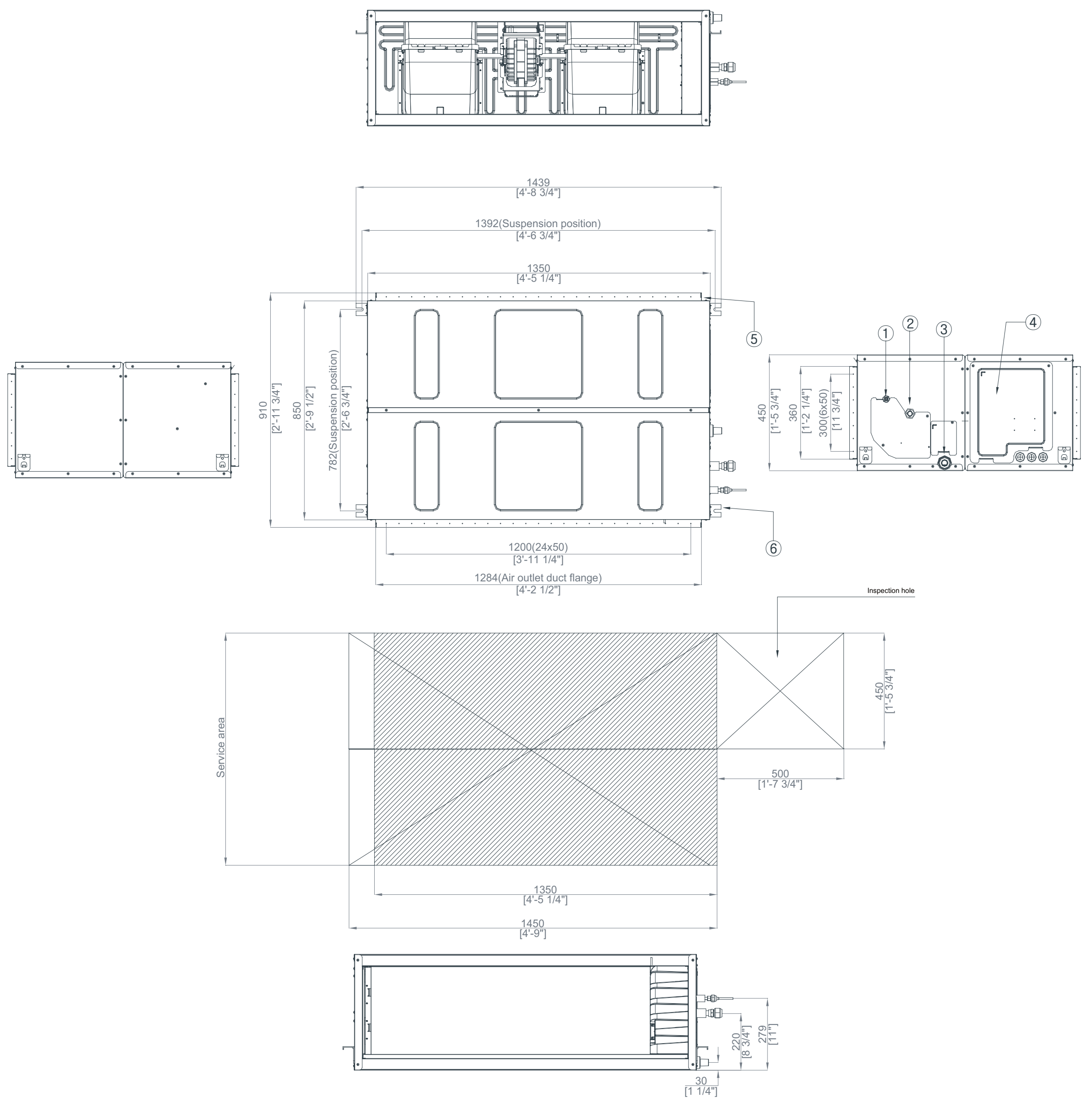
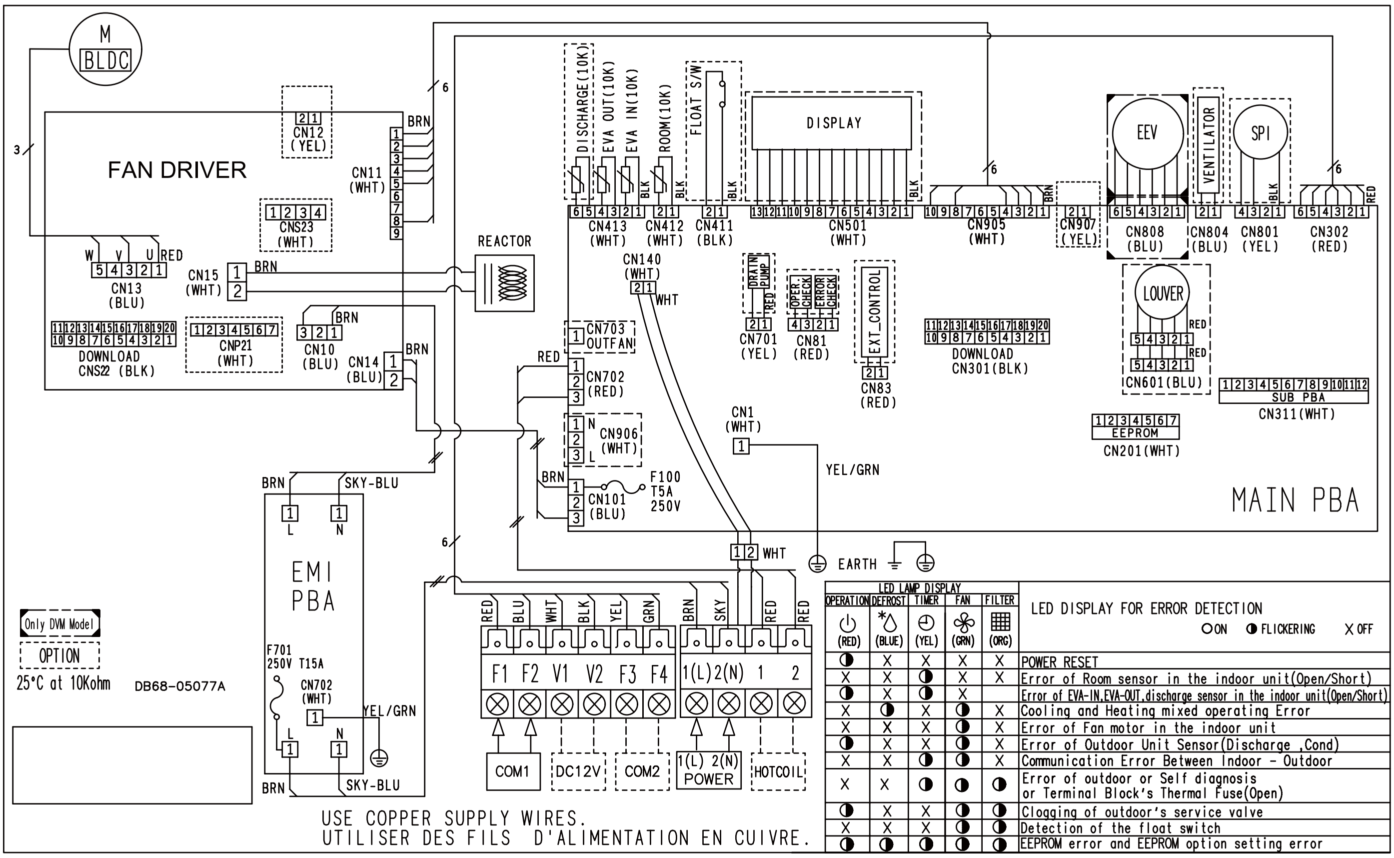


Table of descriptions			
1	Liquid pipe connection	7	
2	Gas pipe connection	8	
3	Drain pipe connection	9	
4	Power supply connection	10	
5	Air discharge flange	11	
6	Hook	12	

Big Duct

AM180/224JNHFKH/EU



LED DISPLAY FOR ERROR DETECTION

○ ON ◑ FLICKERING X OFF

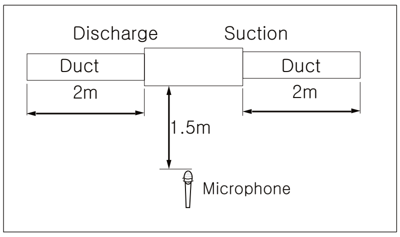
LED LAMP DISPLAY: OPERATION (RED)	DEFROST (BLUE)	TIMER (YEL)	FAN (GRN)	FILTER (ORG)	
◑	X	X	X	X	POWER RESET
X	X	◑	X	X	Error of Room sensor in the indoor unit(Open/Short)
◑	X	◑	X		Error of EVA-IN,EVA-OUT,discharge sensor in the indoor unit(Open/Short)
X	◑	X	◑	X	Cooling and Heating mixed operating Error
X	X	X	◑	X	Error of Fan motor in the indoor unit
◑	X	X	◑	X	Error of Outdoor Unit Sensor(Discharge ,Cond)
X	X	◑	◑	X	Communication Error Between Indoor - Outdoor
X	X	◑	◑	◑	Error of outdoor or Self diagnosis or Terminal Block's Thermal Fuse(Open)
◑	X	X	◑	◑	Clogging of outdoor's service valve
X	X	X	◑	◑	Detection of the float switch
◑	◑	◑	◑	◑	EEPROM error and EEPROM option setting error

NOTE

1. This wiring diagram applies only to the indoor unit.
2. Symbols show as follow;
   BLK : black, RED : red, BLU : blue, WHT:white, YEL : yellow, BRN : brown, SKY : sky-blue, GRN : green
3. For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remotecontroller transmission F3-F4.
4. ⏚ : Protective earth(screw), ☐☐☐☐ : Connector, n/ : The wire quantity

5 Sound pressure level

Big Duct



Unit: dB(A)

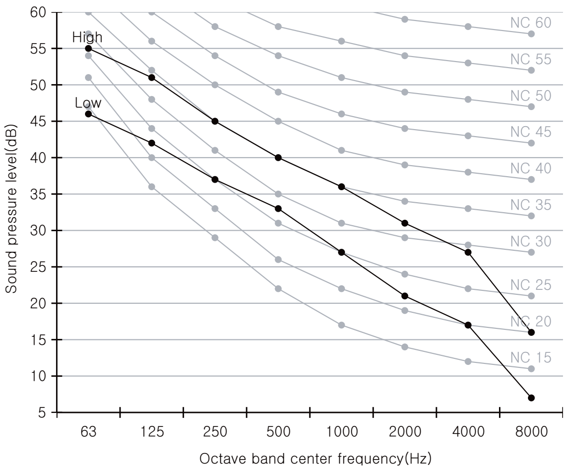
Model	High	Low
AM180JNHFKH/EU	43	35
AM224JNHFKH/EU	44	36

Note

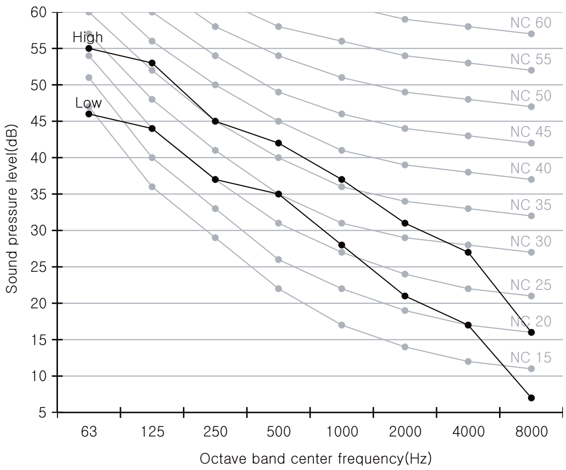
Specifications may be subject to change without prior notice.
Sound pressure level is obtained in an anechoic room.
Sound pressure level is a relative value, depending on the distance and acoustic environment.
Sound pressure level may differ depending on operation condition.
dBA = A-weighted sound pressure level
Reference acoustic pressure 0 dB= 20 uPa

NC curve

1) AM180JNHFKH/EU



2) AM224JNHFKH/EU



6 Sound power level

Big Duct

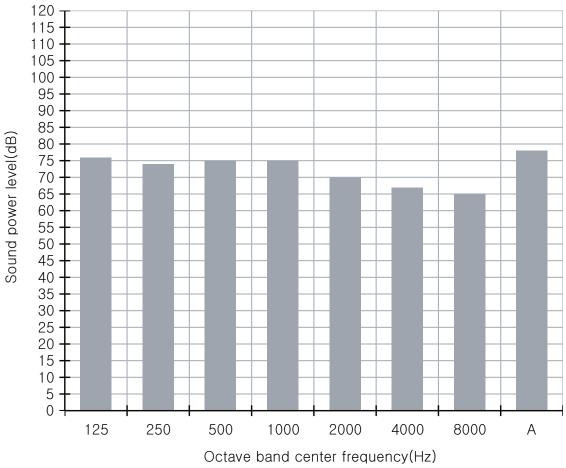
Note

. Specifications may be subject to change without prior notice.
. Sound power level is an absolute value that a sound source generates.
. dBA = A-weighted sound power level.
. Reference power : 1pW.
. Measured according to ISO 3741

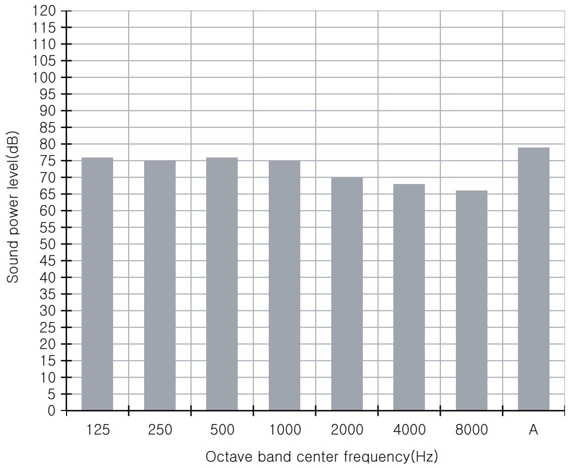
Unit: dB(A)

Model	Power
AM180JNHFKH/EU	80
AM224JNHFKH/EU	81

1)AM180JNHFKH/EU

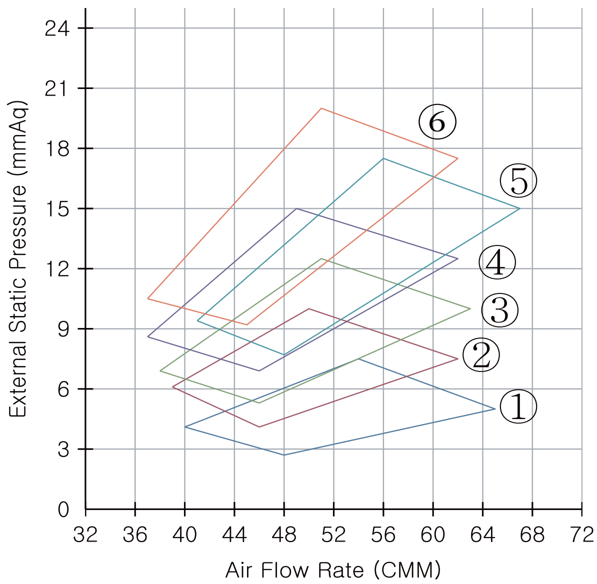


2)AM224JNHFKH/EU



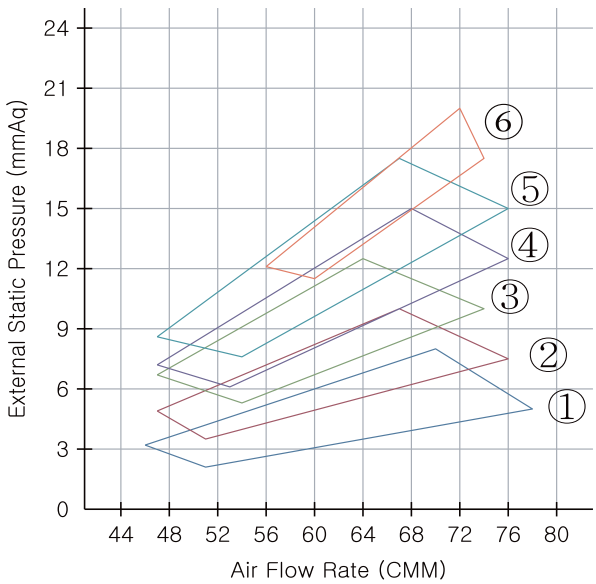
HSP Duct

1) AM180JNHFKH/EU



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

2) AM224JNHFKH/EU



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

NOTE

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

OAP Duct

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	46	47
	Power	Cooling		63	64	68
Dimension	Net Weight		kg	51.0	85.0	85.0
	Shipping Weight		kg	61.0	95.0	95.0
	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.

* Heat Exchanger type : Fin & Tube (Fin : Al, Tube : Cu)

2 Capacity table

OAP Duct

1) Cooling

Capacity Index	Outdoor Air Temperature (℃, DB)	Outdoor Air Temperature (℃, 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

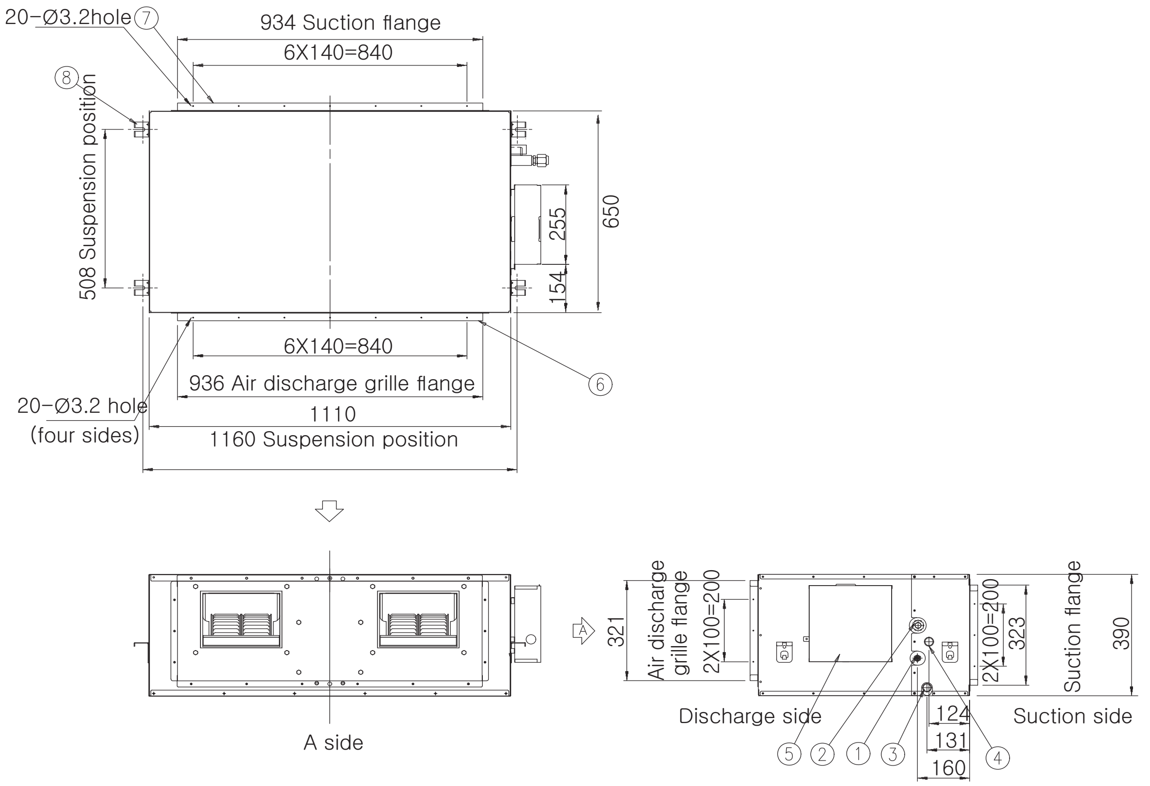
Capacity Index	Outdoor Air Temperature (℃, DB)	Outdoor Air Temperature (℃, WB)								
		-7	-5	-2.9	0	2	4	6	10	14
		TC	TC	TC	TC	TC	TC	TC	TC	TC
140	-5	9.9	9.9							
	0			**8.9**						
	3			7.9	7.9	7.9				
	7					6.4	6.4	6.4		
	11						5.0	5.0	5.0	
	15							3.6	3.6	3.6
140	-5	15.5	15.5							
	0			**13.9**						
	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.

OAP Duct

AM140JNEPEH/EU

Unit : mm



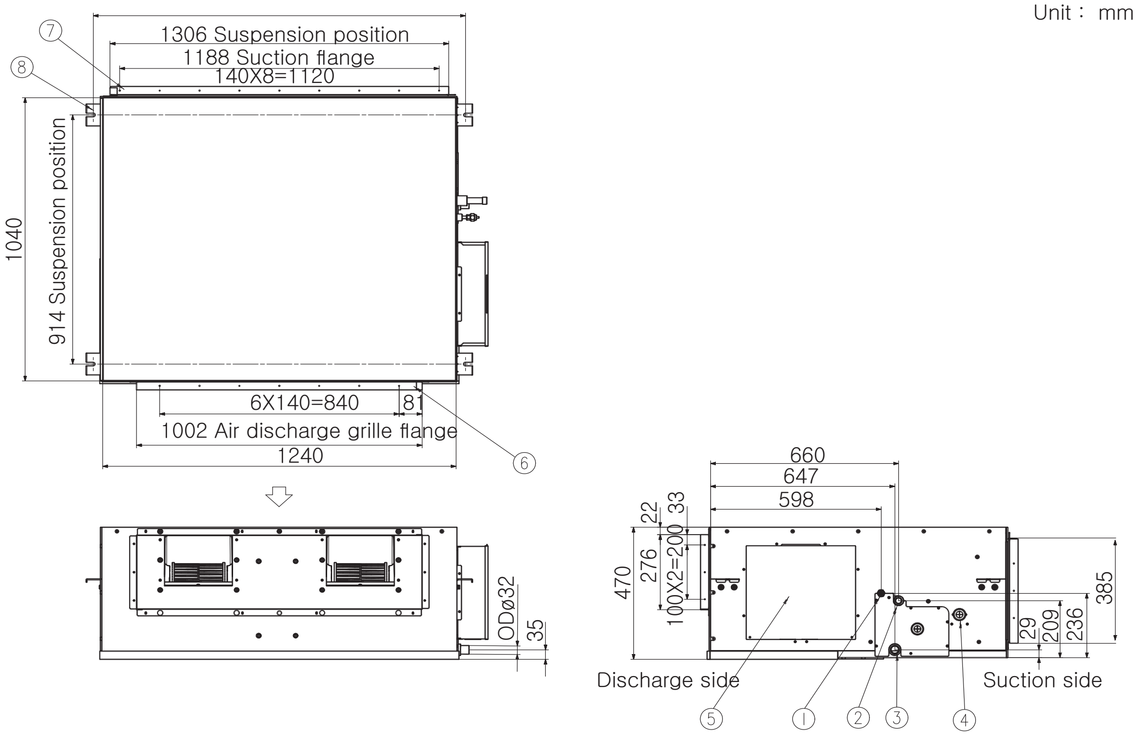
No.	Name	Description
1	Diameter of liquid pipe	ø9.52
2	Diameter of air pipe	ø15.88
3	Diameter of drain pipe	VP25 (OD ø32, ID ø25)
4	Diameter of drain pipe (Option drain pump)	VP25 (OD ø32, ID ø25)
5	Power supply / Communication connection	
6	Air discharge grille flange	
7	Suction flange	
8	Hook	ø9.52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

3 Dimensional drawing

OAP Duct

AM220JNEPEH/EU, AM280JNEPEH/EU

Unit : mm

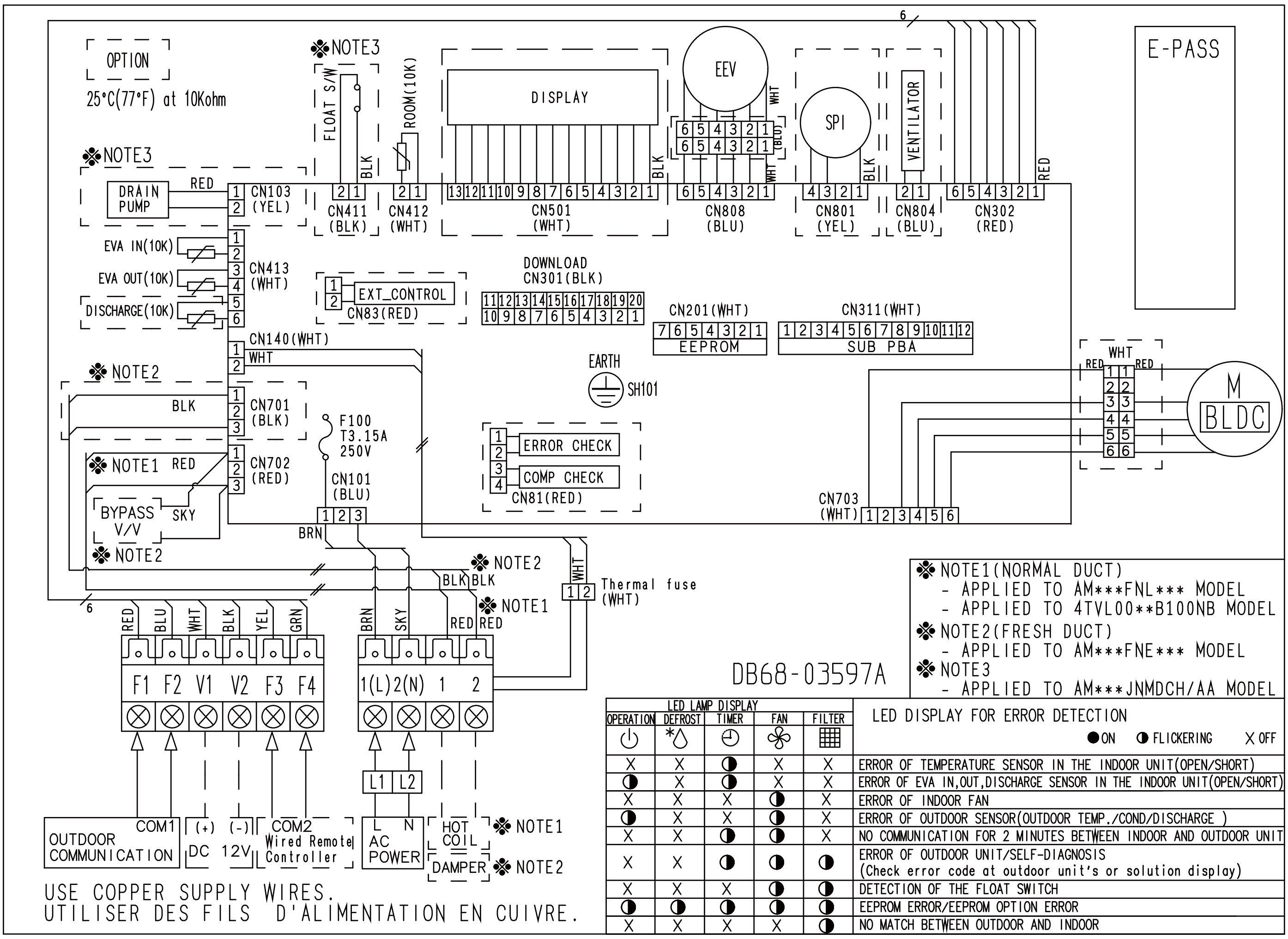


No.	Name	Description
1	Diameter of liquid pipe	ø9.52
2	Diameter of air pipe	ND220E**: ø19.05 ND280E**: ø22.22
3	Diameter of drain pipe	VP25 (OD ø32, ID ø25)
4	Diameter of drain pipe (Optional drain pump)	VP25 (OD ø32, ID ø25)
5	Power supply / Communication connection	
6	Air discharge grille flange	
7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

4 Electrical Wiring Diagram

OAP Duct

AM140JNEPEH/EU



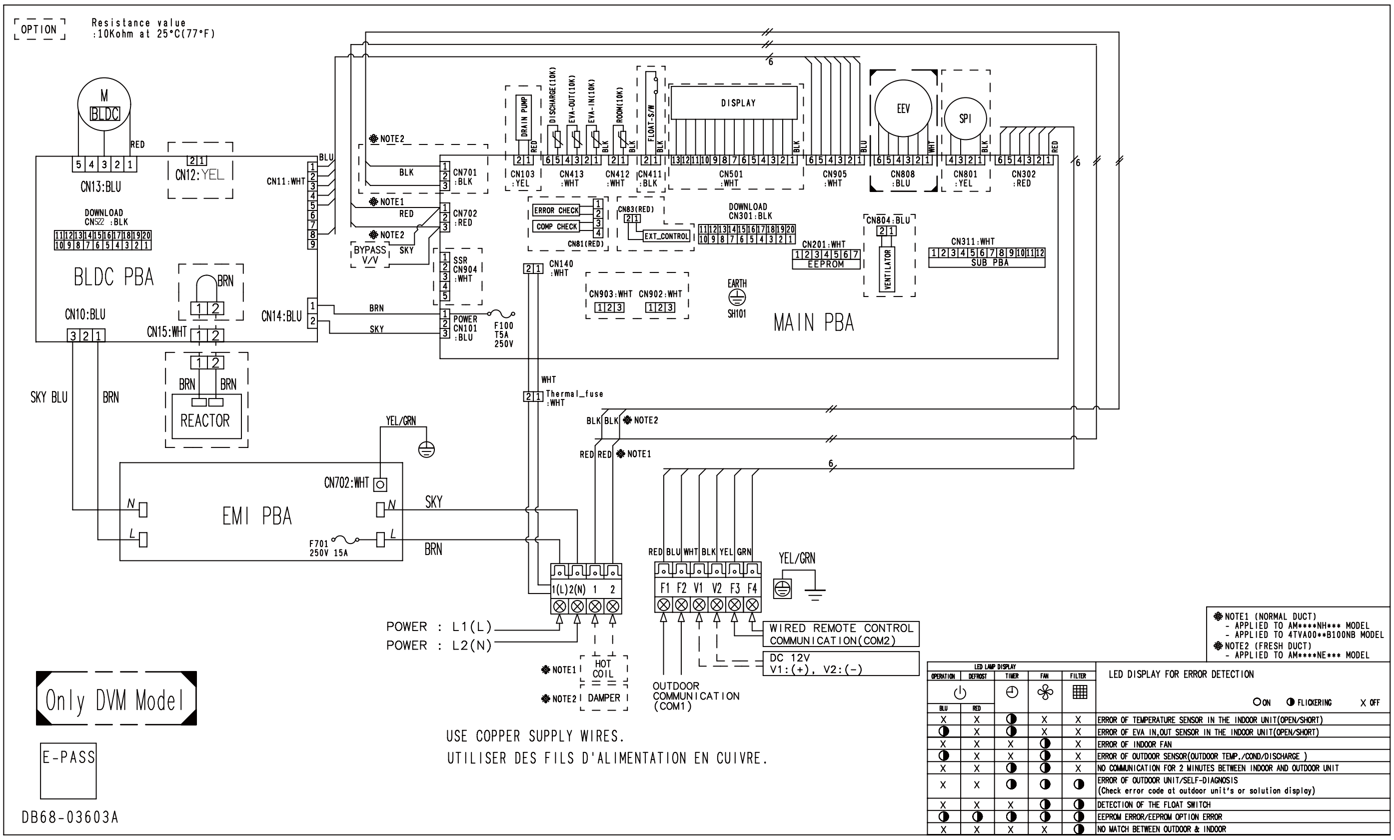
M [BLDC]	Motor (BLDC)	EEV	electronic expansion valve	EVA-IN(10K)	Thermistor EVA IN(10K)
DISCHARGE(10K)	Thermistor DISCHARGE(10K)	SPI	S-Plasma ion	EVA-OUT(10K)	Thermistor EVA OUT(10K)

NOTE

1. This wiring diagram applies only to the indoor unit.
2. Symbols show as follow;
   BLK : black, RED : red, BLU : blue, WHT:white, YEL : yellow, BRN : brown, SKY : sky-blue, GRN : green
3. For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remotecontroller transmission F3-F4.
4. : Protective earth(screw), : Connector, n : The wire quantity

OAP Duct

AM220/280JNEPEH/EU

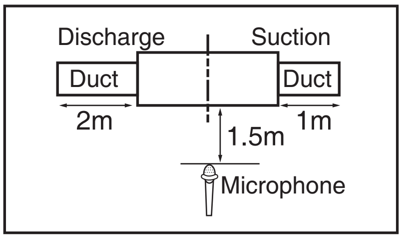


NOTE

1. This wiring diagram applies only to the indoor unit.
2. Symbols show as follow;
   BLK : black, RED : red, BLU : blue, WHT:white, YEL : yellow, BRN : brown, SKY : sky-blue, GRN : green
3. For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remotecontroller transmission F3-F4.
4. ⏚ : Protective earth(screw), ☐☐☐☐ : Connector, n/ : The wire quantity

5 Sound pressure level

OAP Duct



Unit: dB(A)

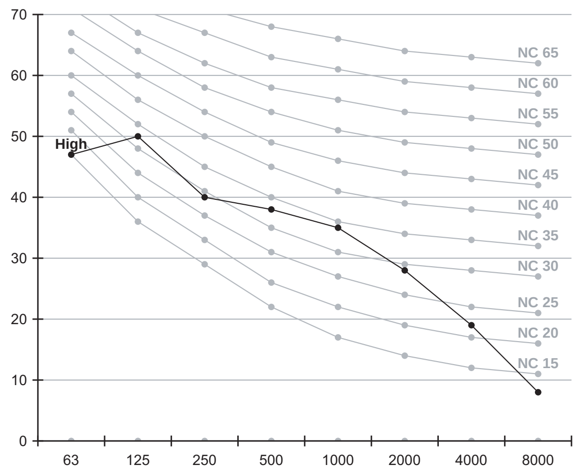
Model	High
AM140JNEPEH/EU	42
AM220JNEPEH/EU	46
AM280JNEPEH/EU	47

Note

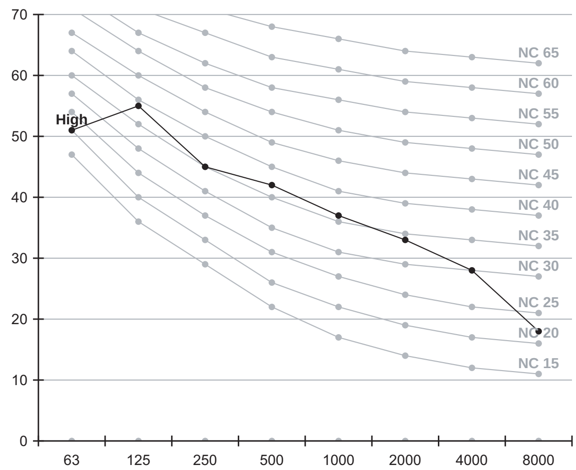
Specifications may be subject to change without prior notice.
Sound pressure level is obtained in an anechoic room.
Sound pressure level is a relative value, depending on the distance and acoustic environment.
Sound pressure level may differ depending on operation condition.
dBA = A-weighted sound pressure level
Reference acoustic pressure 0 dB= 20 uPa

NC curve

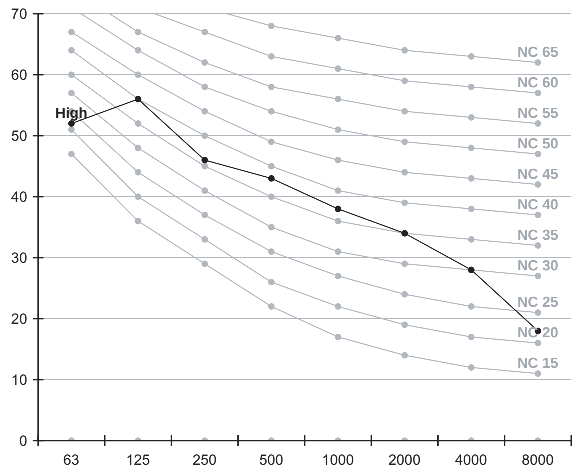
1) AM140JNEPEH/EU



2) AM220JNEPEH/EU



3) AM280JNEPEH/EU



6 Sound power level

OAP Duct

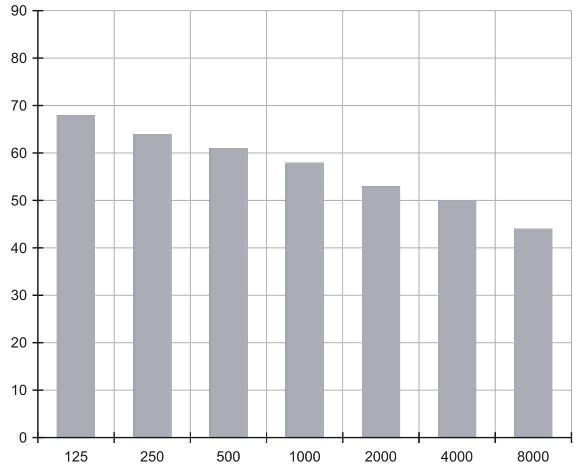
Note

. Specifications may be subject to change without prior notice.
. Sound power level is an absolute value that a sound source generates.
. dBA = A-weighted sound power level.
. Reference power : 1pW.
. Measured according to ISO 3741

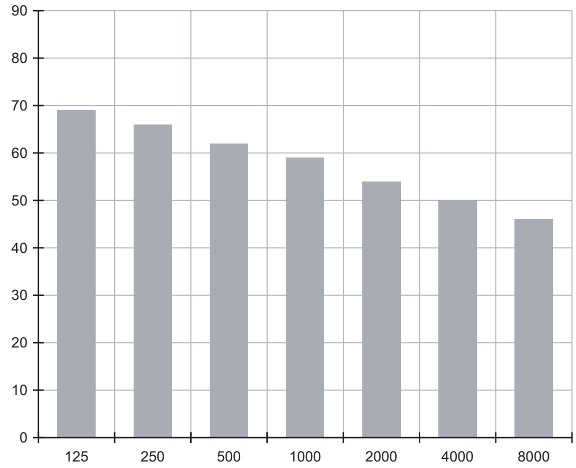
Unit: dB(A)

Model	Power
AM140JNEPEH/EU	63
AM220JNEPEH/EU	64
AM280JNEPEH/EU	68

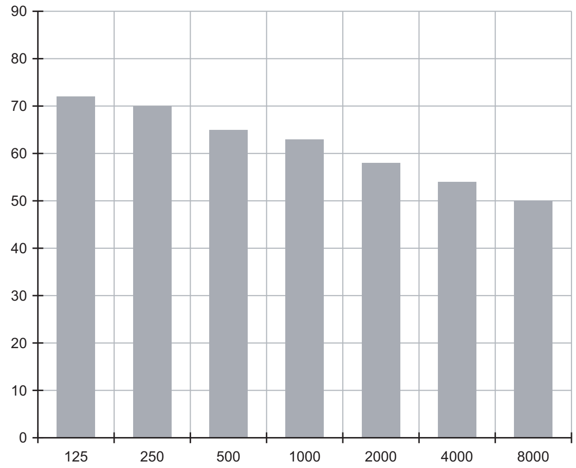
1)AM140JNEPEH/EU



2)AM220JNEPEH/EU

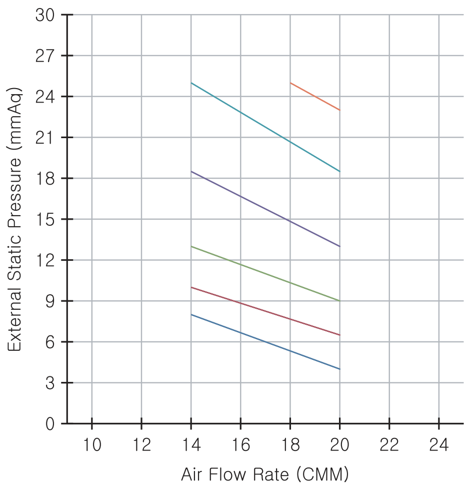


3)AM280JNEPEH/EU



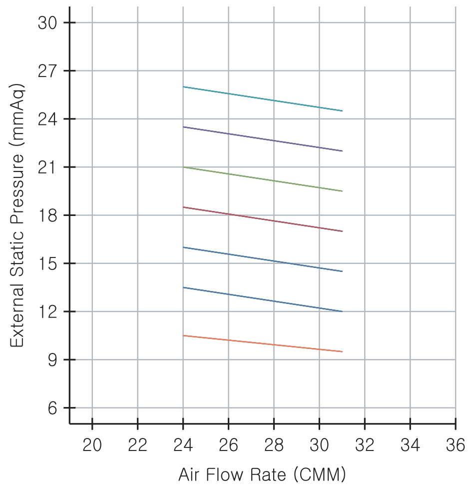
OAP Duct

1) AM140JNEPEH/EU



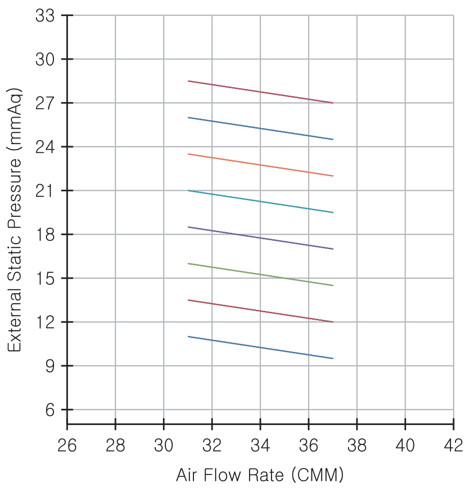
External Static Pressure (mmAq)	Option Code
4~8	01B064-1B490B-208C8C-333000
6.5~10	01B064-1B4A51-208C8C-333000
9~13	01B064-1B4AA6-208C8C-333000
13~18.5	01B064-1B4E2E-208C8C-333000
18.5~25	01B064-1B4F95-208C8C-333000
23~25	01B064-1B4FFB-208C8C-333000

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

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

Neo Forte

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
			l/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		mm^2	1.5 - 2.5	1.5 - 2.5
	Transmission Cable		mm^2	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 / 25 / 24	26 / 25 / 24
	Power	Cooling		43	43
Dimension	Net Weight		kg	8.3	8.0
	Shipping Weight		kg	11.3	11.0
	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℃DB / 19℃WB, Outdoor temperature 35℃DB/24℃WB, Refrigerant pipe length 7.5m, Level difference 0m.
- Nominal Heating : Indoor temperature 20℃DB/15℃WB, Outdoor temperature 7℃DB / 6℃WB, 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.

* Heat Exchanger type : Fin & Tube (Fin : Al, Tube : Cu)

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
			l/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		mm^2	1.5 - 2.5	1.5 - 2.5
	Transmission Cable		mm^2	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 / 29 / 26	30 / 28 / 26
	Power	Cooling		49	48
Dimension	Net Weight		kg	8.3	8.0
	Shipping Weight		kg	11.3	11.0
	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℃DB / 19℃WB, Outdoor temperature 35℃DB/24℃WB, Refrigerant pipe length 7.5m, Level difference 0m.
- Nominal Heating : Indoor temperature 20℃DB/15℃WB, Outdoor temperature 7℃DB / 6℃WB, 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.

* Heat Exchanger type : Fin & Tube (Fin : Al, Tube : Cu)

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
			l/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		mm^2	1.5 - 2.5	1.5 - 2.5
	Transmission Cable		mm^2	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 / 29 / 26	30 / 28 / 26
	Power	Cooling		49	48
Dimension	Net Weight		kg	8.3	8.0
	Shipping Weight		kg	11.3	11.0
	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℃DB / 19℃WB, Outdoor temperature 35℃DB/24℃WB, Refrigerant pipe length 7.5m, Level difference 0m.
- Nominal Heating : Indoor temperature 20℃DB/15℃WB, Outdoor temperature 7℃DB / 6℃WB, 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.

* Heat Exchanger type : Fin & Tube (Fin : Al, Tube : Cu)

1 Specifications

Neo Forte

				Neo Forte (EEV)	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
			l/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 / 33 / 29	36 / 32 / 28
	Power	Cooling		54	53
Dimension	Net Weight		kg	8.3	8.0
	Shipping Weight		kg	11.3	11.0
	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℃DB / 19℃WB, Outdoor temperature 35℃DB/24℃WB, Refrigerant pipe length 7.5m, Level difference 0m.
- Nominal Heating : Indoor temperature 20℃DB/15℃WB, Outdoor temperature 7℃DB / 6℃WB, 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.

* Heat Exchanger type : Fin & Tube (Fin : Al, Tube : Cu)

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
			l/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 / 37 / 34	42 / 39 / 35
	Power	Cooling		55	58
Dimension	Net Weight		kg	13.5	13.5
	Shipping Weight		kg	16.5	16.5
	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℃DB / 19℃WB, Outdoor temperature 35℃DB/24℃WB, Refrigerant pipe length 7.5m, Level difference 0m.
- Nominal Heating : Indoor temperature 20℃DB/15℃WB, Outdoor temperature 7℃DB / 6℃WB, 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.

* Heat Exchanger type : Fin & Tube (Fin : Al, Tube : Cu)

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
			l/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 / 40 / 35	45 / 40 / 35
	Power	Cooling		57	60
Dimension	Net Weight		kg	13.0	13.5
	Shipping Weight		kg	16.0	16.5
	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℃DB / 19℃WB, Outdoor temperature 35℃DB/24℃WB, Refrigerant pipe length 7.5m, Level difference 0m.
- Nominal Heating : Indoor temperature 20℃DB/15℃WB, Outdoor temperature 7℃DB / 6℃WB, 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.

* Heat Exchanger type : Fin & Tube (Fin : Al, Tube : Cu)

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
			l/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 / 41 / 35
	Power	Cooling		59
Dimension	Net Weight		kg	13.0
	Shipping Weight		kg	16.0
	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℃DB / 19℃WB, Outdoor temperature 35℃DB/24℃WB, Refrigerant pipe length 7.5m, Level difference 0m.
- Nominal Heating : Indoor temperature 20℃DB/15℃WB, Outdoor temperature 7℃DB / 6℃WB, 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.

* Heat Exchanger type : Fin & Tube (Fin : Al, Tube : Cu)

2 Capacity table

Neo Forte

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity

Model	Outdoor temperature (ºC, DB)	Indoor temperature (ºC, 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	1.10	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
	25	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
	27	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 (ºC, DB)	Indoor temperature (ºC, 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
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
			TC	TC	TC	TC	TC
	DB	WB	kW	kW	kW	kW	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	3.02	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
	15	14	5.79	5.40	5.00	4.60	4.21
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

Neo Forte

Heating

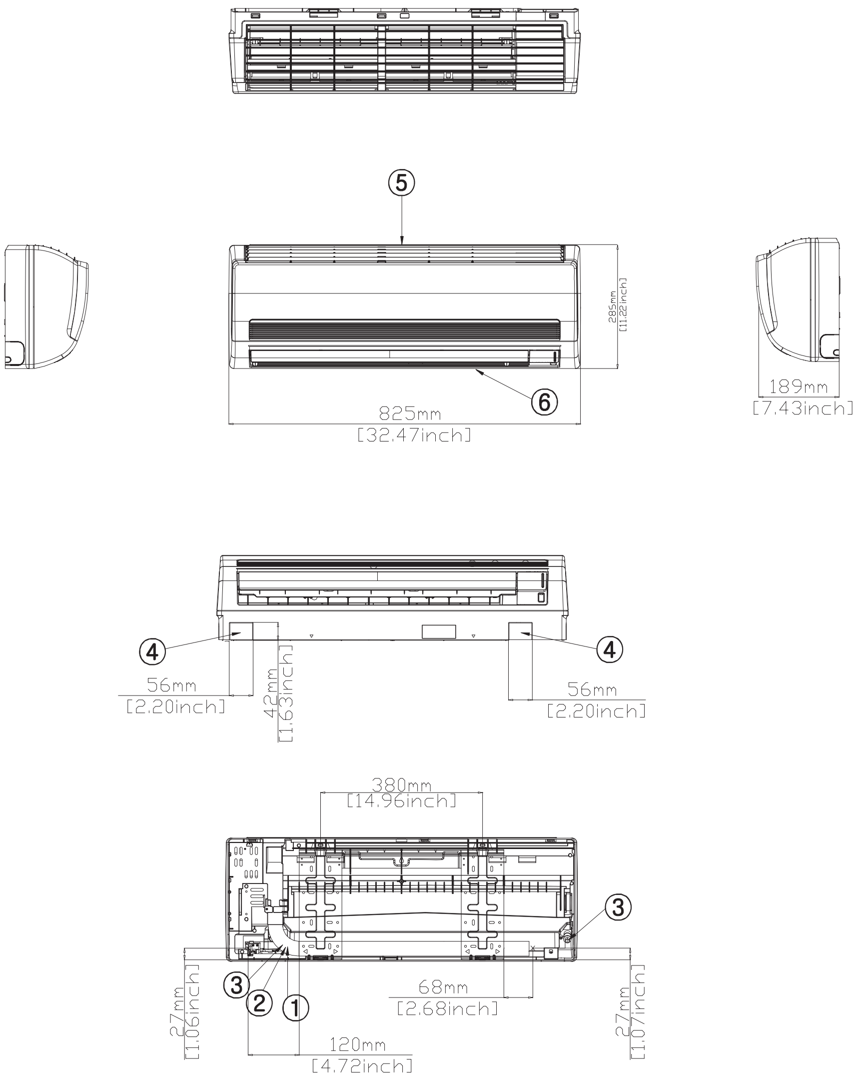
TC : Total Capacity

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
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

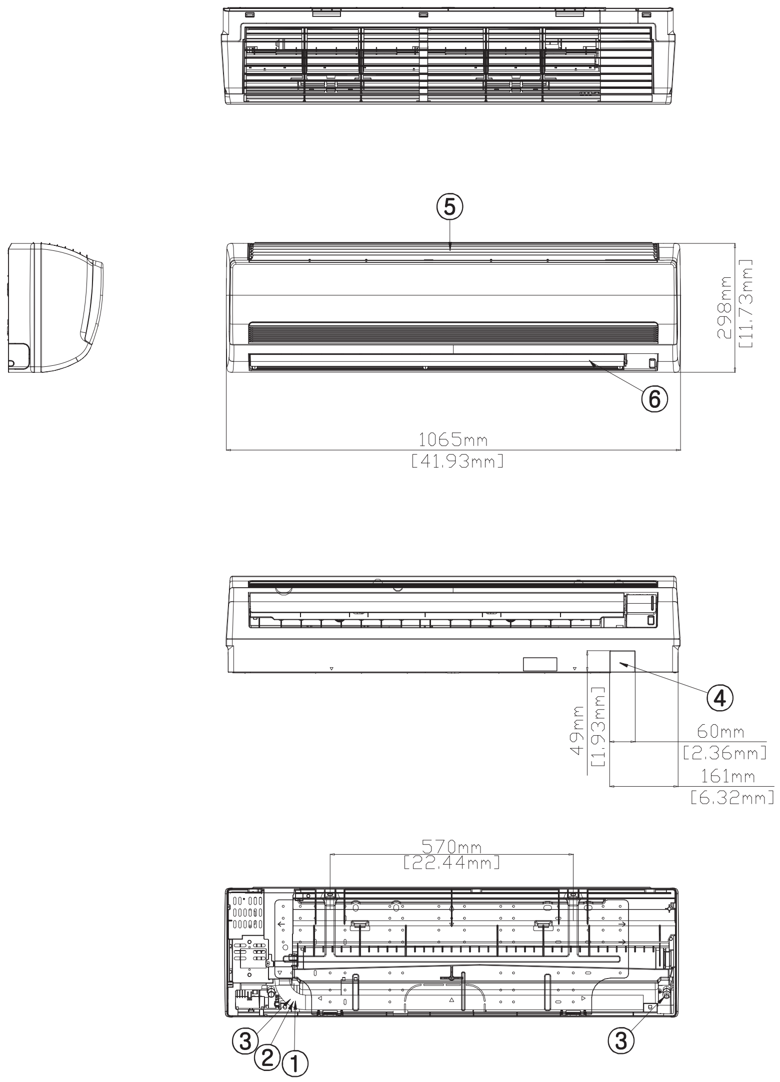


No.	Name
①	Liquid Ref. Pipe
②	Gas Ref. Pipe
③	Drain Pipe Connection
④	Conduit for power supply & Communication wiring
⑤	Air inlet grille
⑥	Air outlet louver

3 Dimensional drawing

Neo Forte

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

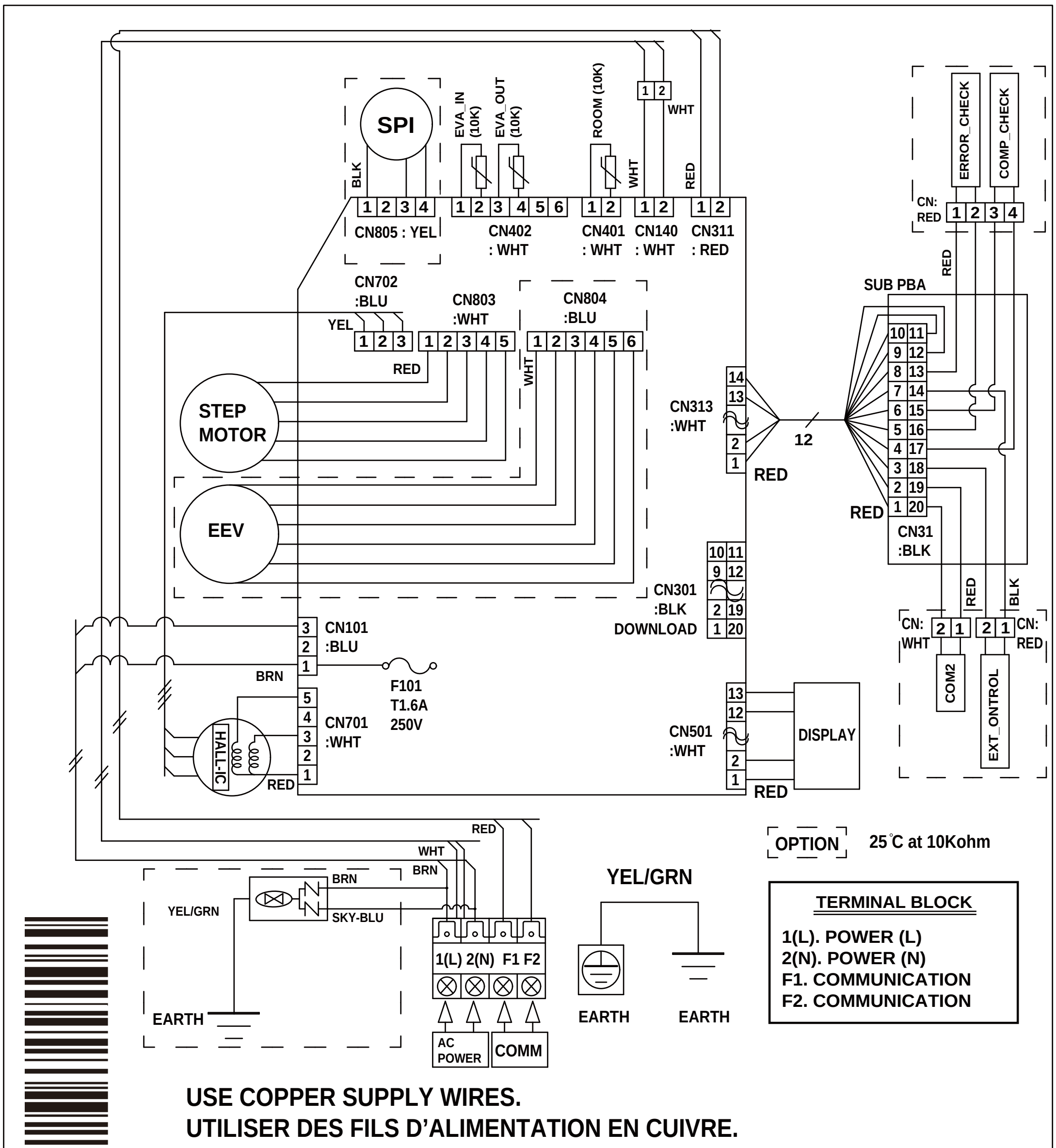


No.	Name
①	Liquid Ref. Pipe
②	Gas Ref. Pipe
③	Drain Pipe Connection
④	Conduit for power supply & Communication wiring
⑤	Air inlet grille
⑥	Air outlet louver

4 Electrical Wiring Diagram

Neo Forte

AM015HNTDEH/EU, AM015HNQDEH/EU, AM022/028/036/056/071FNTDEH/EU, AM022/028/036/045/056/071FNQDEH/EU



DB68-03601A

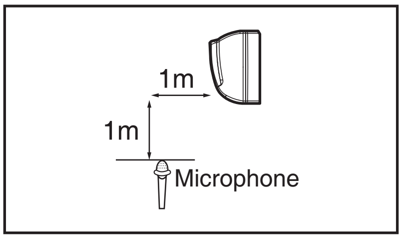
ERROR DISPLAY			DESCRIPTION
Oper.	Timer	Trubo	
✕	◑	✕	Temperature sensor error (OPEN/SHORT)
◑	◑	✕	Evap in/out temp sensor error
✕	✕	◑	Fan error (indoor)
◑	✕	◑	Outdoor sensor error
✕	◑	◑	Communication error (outdoor->indoor)
●	◑	◑	ERROR OF OUTDOOR UNIT/SELF-DIAGNOSIS (Check error code at outdoor unit’s or solution display)
◑	◑	◑	EEPROM error/EEPROM option error
◑	●	◑	No match between outdoor and indoor

NOTE

1. This wiring diagram applies only to the indoor unit.
2. Symbols show as follow;
   BLK : black, RED : red, BLU : blue, WHT:white, YEL : yellow, BRN : brown, SKY : sky-blue, GRN : green
3. For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remotecontroller transmission F3-F4.
4. ⏚ : Protective earth(screw), ☐☐☐☐ : Connector, n/ : The wire quantity

5 Sound pressure level

Neo Forte



Unit: dB(A)

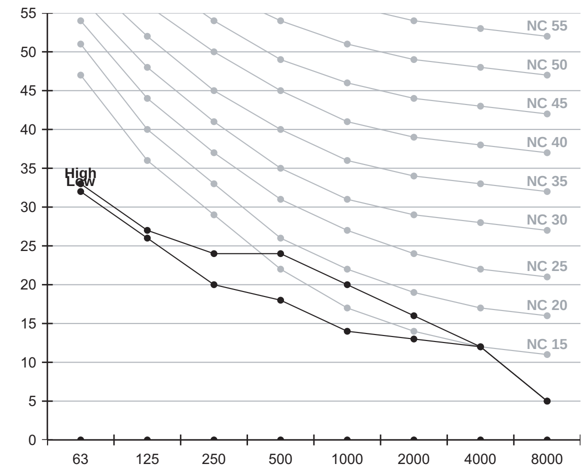
Model	High	Low
AM015HNQDEH/EU	26	24
AM015HNTDEH/EU	26	24
AM022FNQDEH/EU	31	26
AM022FNTDEH/EU	30	26

Note

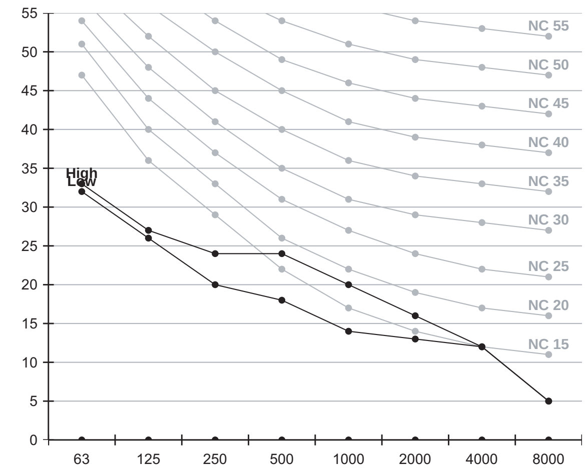
Specifications may be subject to change without prior notice.
Sound pressure level is obtained in an anechoic room.
Sound pressure level is a relative value, depending on the distance and acoustic environment.
Sound pressure level may differ depending on operation condition.
dBA = A-weighted sound pressure level
Reference acoustic pressure 0 dB= 20 uPa

NC curve

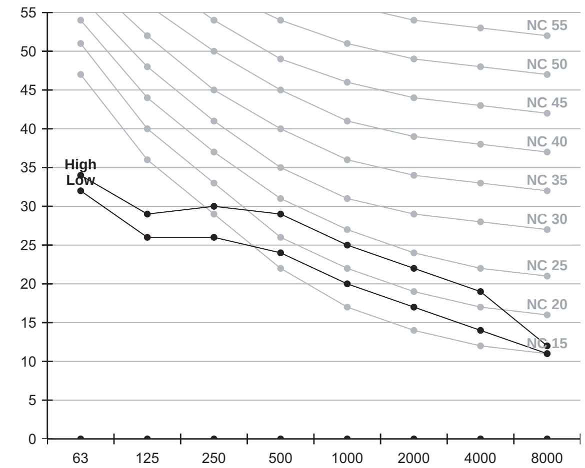
1) AM015HNQDEH/EU



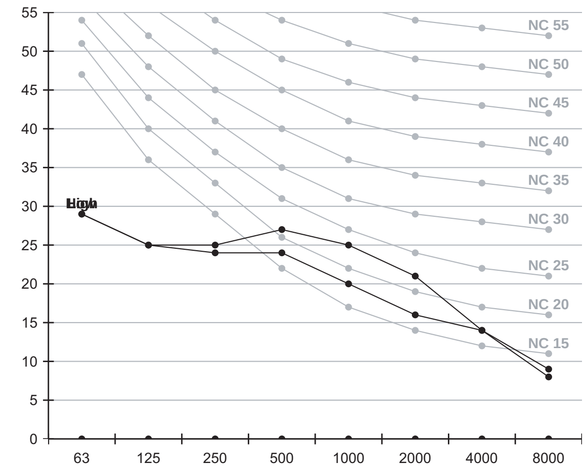
2) AM015HNTDEH/EU



3) AM022FNQDEH/EU

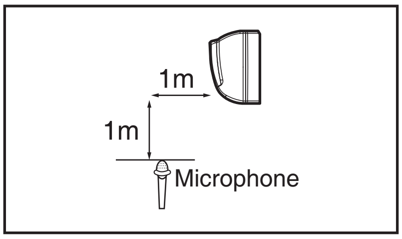


4) AM022FNTDEH/EU



5 Sound pressure level

Neo Forte



Unit: dB(A)

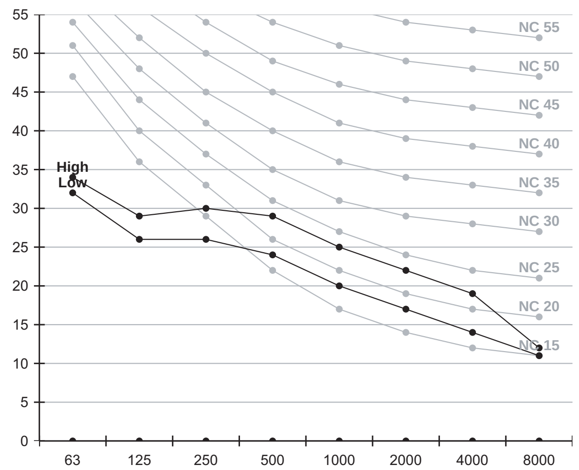
Model	High	Low
AM028FNQDEH/EU	31	26
AM028FNTDEH/EU	30	26
AM036FNQDEH/EU	37	29
AM036FNTDEH/EU	36	28

Note

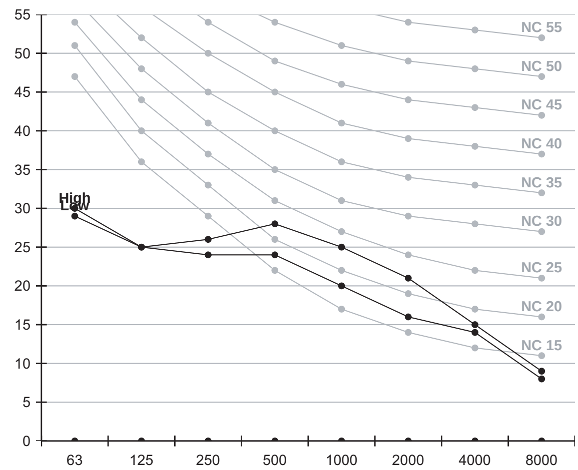
Specifications may be subject to change without prior notice.
Sound pressure level is obtained in an anechoic room.
Sound pressure level is a relative value, depending on the distance and acoustic environment.
Sound pressure level may differ depending on operation condition.
dBA = A-weighted sound pressure level
Reference acoustic pressure 0 dB= 20 uPa

NC curve

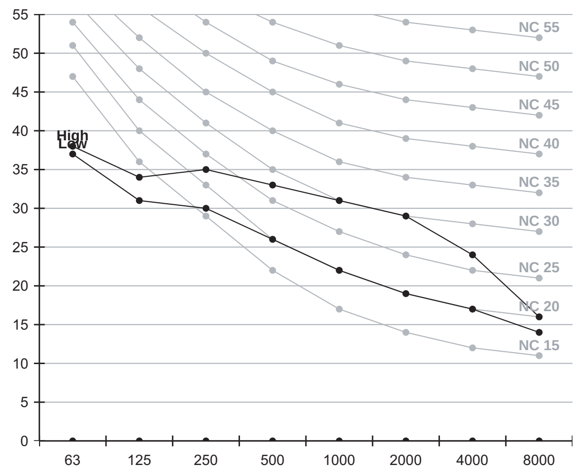
1) AM028FNQDEH/EU



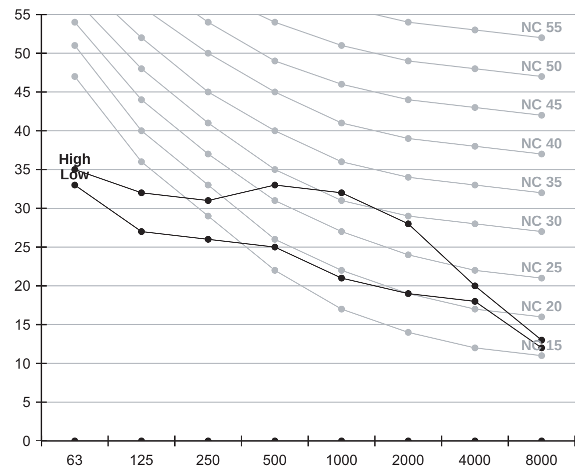
2) AM028FNTDEH/EU



3) AM036FNQDEH/EU

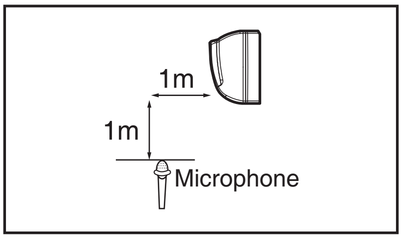


4) AM036FNTDEH/EU



5 Sound pressure level

Neo Forte



Unit: dB(A)

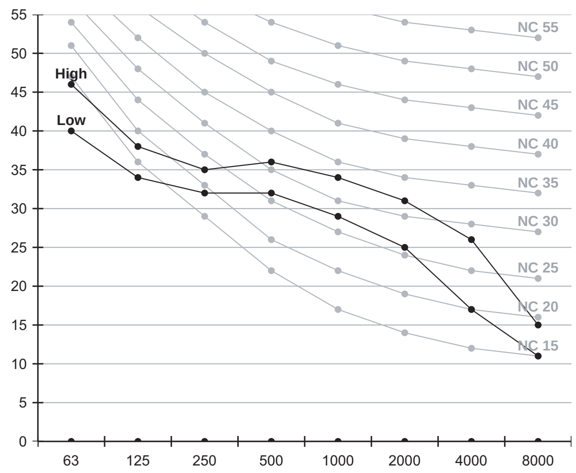
Model	High	Low
AM045FNQDEH/EU	39	34
AM056FNQDEH/EU	42	35
AM056FNTDEH/EU	42	35
AM071FNQDEH/EU	45	35

Note

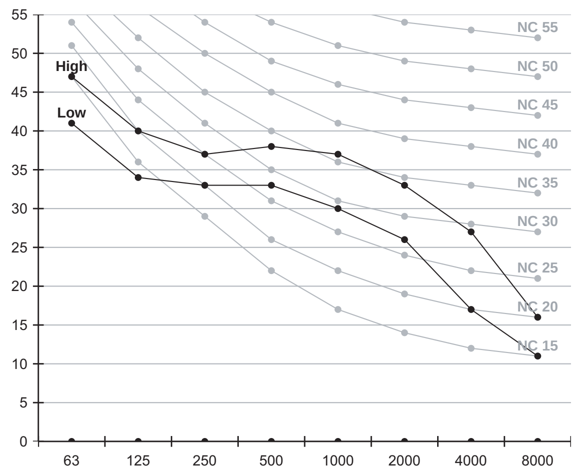
Specifications may be subject to change without prior notice.
Sound pressure level is obtained in an anechoic room.
Sound pressure level is a relative value, depending on the distance and acoustic environment.
Sound pressure level may differ depending on operation condition.
dBA = A-weighted sound pressure level
Reference acoustic pressure 0 dB= 20 uPa

NC curve

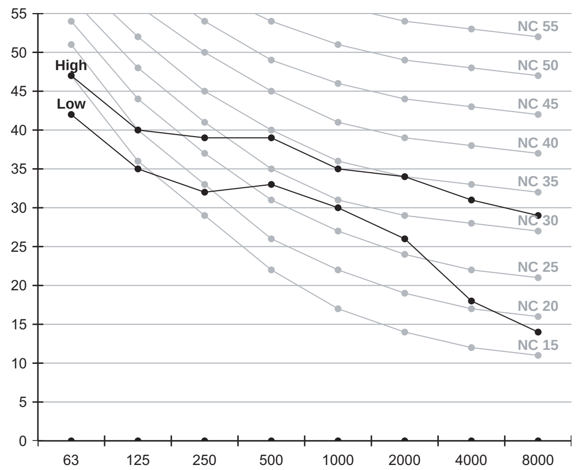
1) AM045FNQDEH/EU



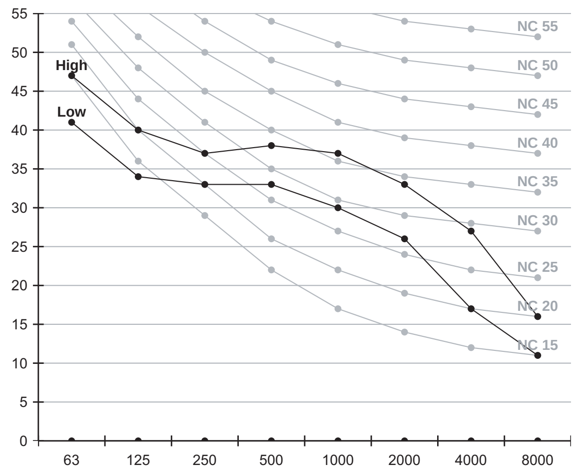
2) AM056FNQDEH/EU



3) AM056FNTDEH/EU

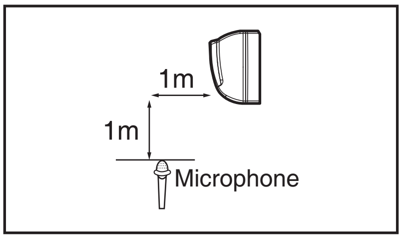


4) AM071FNQDEH/EU



5 Sound pressure level

Neo Forte



Unit: dB(A)

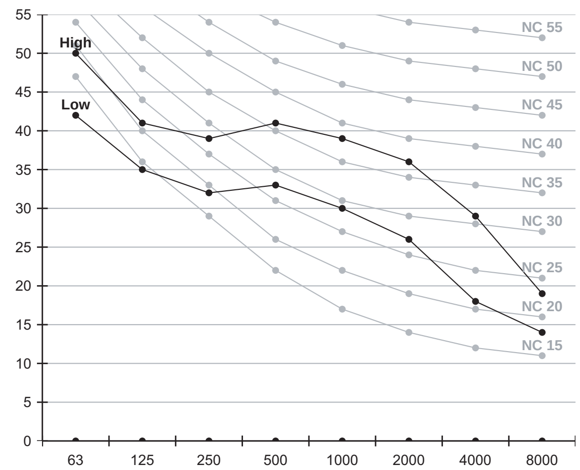
Model	High	Low
AM071FNTDEH/EU	44	35

Note

Specifications may be subject to change without prior notice.
Sound pressure level is obtained in an anechoic room.
Sound pressure level is a relative value, depending on the distance and acoustic environment.
Sound pressure level may differ depending on operation condition.
dBA = A-weighted sound pressure level
Reference acoustic pressure 0 dB= 20 uPa

NC curve

1) AM071FNTDEH/EU



6 Sound power level

Neo Forte

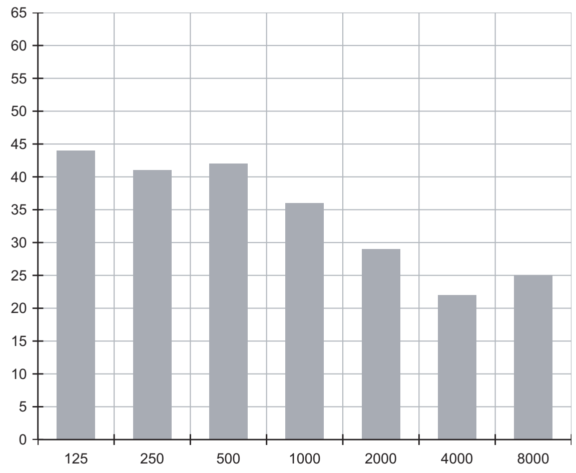
Note

. Specifications may be subject to change without prior notice.
. Sound power level is an absolute value that a sound source generates.
. dBA = A-weighted sound power level.
. Reference power : 1pW.
. Measured according to ISO 3741

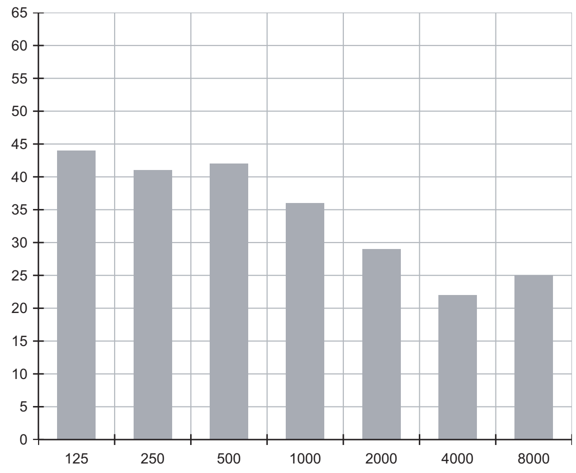
Unit: dB(A)

Model	Power
AM015HNQDEH/EU	43
AM015HNTDEH/EU	43
AM022FNQDEH/EU	49
AM022FNTDEH/EU	48

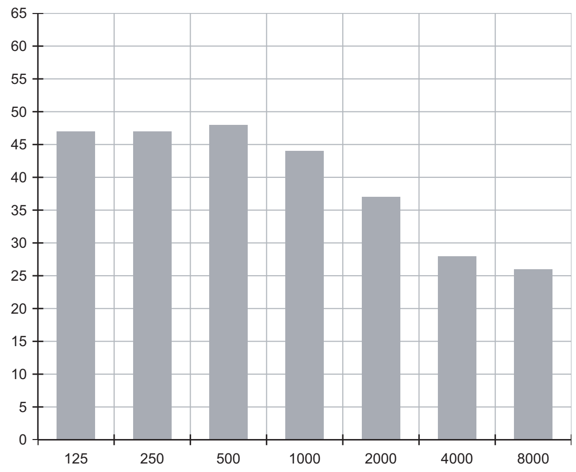
1)AM015HNQDEH/EU



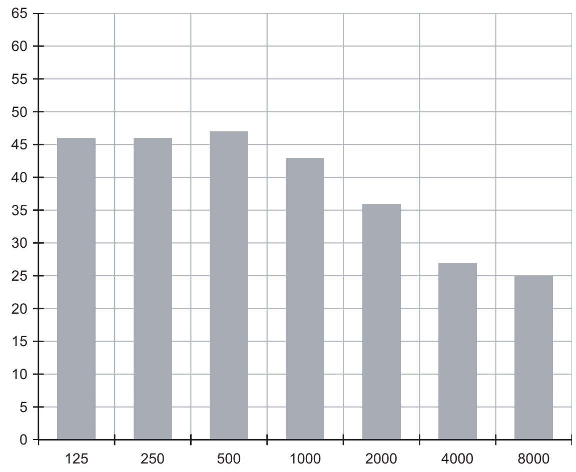
2)AM015HNTDEH/EU



3)AM022FNQDEH/EU



4)AM022FNTDEH/EU



6 Sound power level

Neo Forte

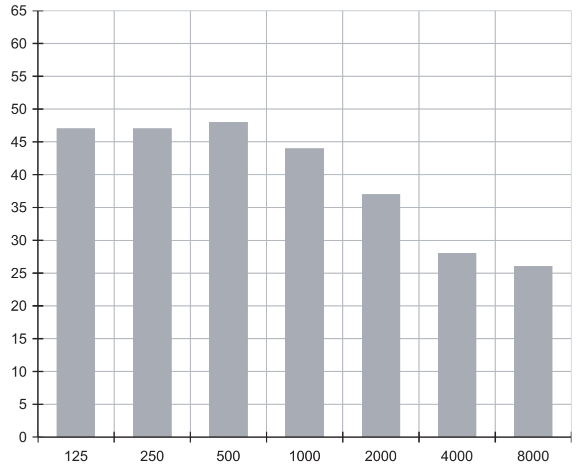
Note

. Specifications may be subject to change without prior notice.
. Sound power level is an absolute value that a sound source generates.
. dBA = A-weighted sound power level.
. Reference power : 1pW.
. Measured according to ISO 3741

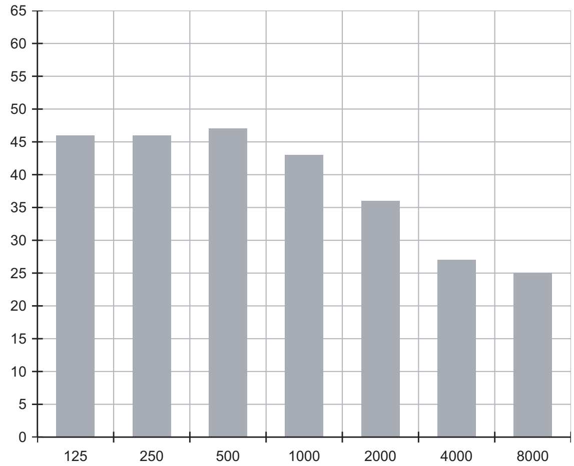
Unit: dB(A)

Model	Power
AM028FNQDEH/EU	49
AM028FNTDEH/EU	48
AM036FNQDEH/EU	54
AM036FNTDEH/EU	53

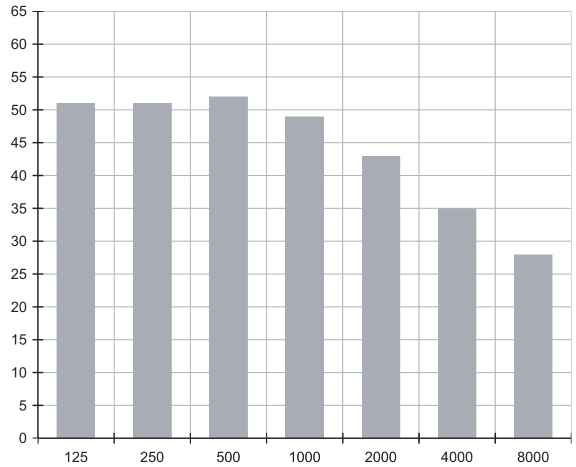
1)AM028FNQDEH/EU



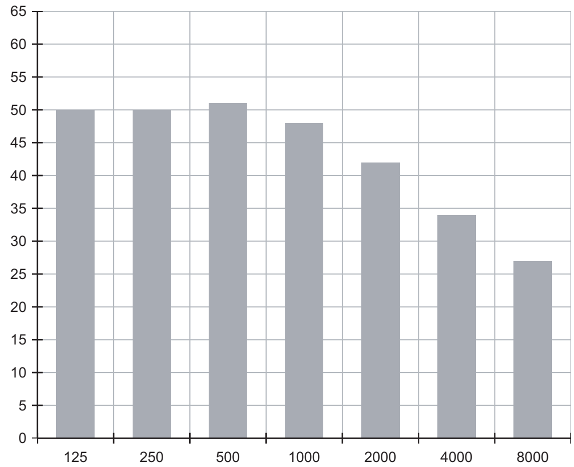
2)AM028FNTDEH/EU



3)AM036FNQDEH/EU



4)AM036FNTDEH/EU



6 Sound power level

Neo Forte

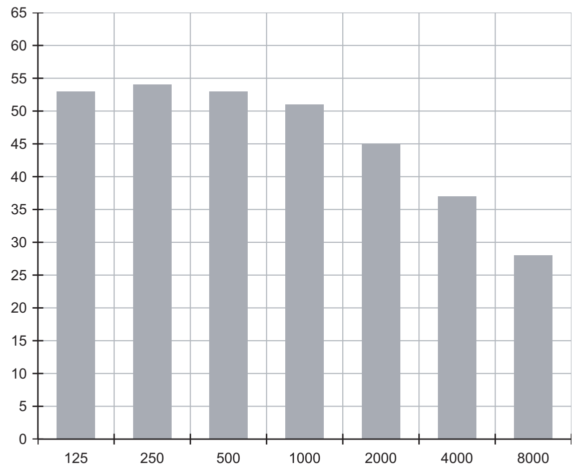
Note

. Specifications may be subject to change without prior notice.
. Sound power level is an absolute value that a sound source generates.
. dBA = A-weighted sound power level.
. Reference power : 1pW.
. Measured according to ISO 3741

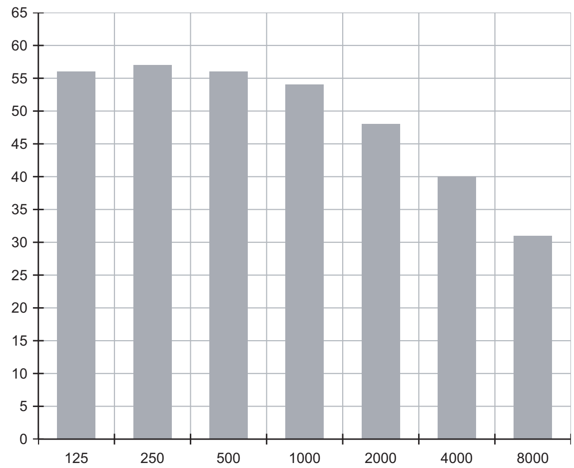
Unit: dB(A)

Model	Power
AM045FNQDEH/EU	55
AM056FNQDEH/EU	58
AM056FNTDEH/EU	57
AM071FNQDEH/EU	60

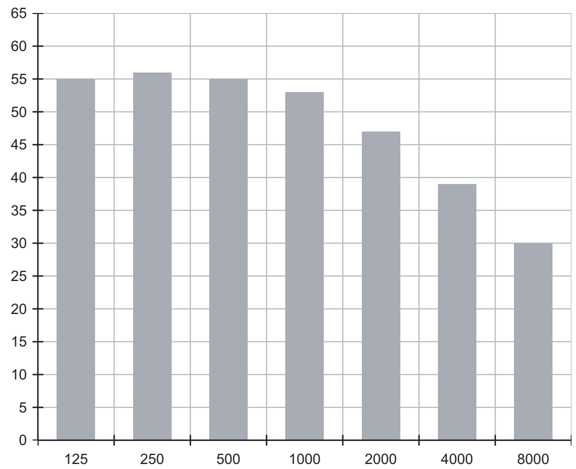
1)AM045FNQDEH/EU



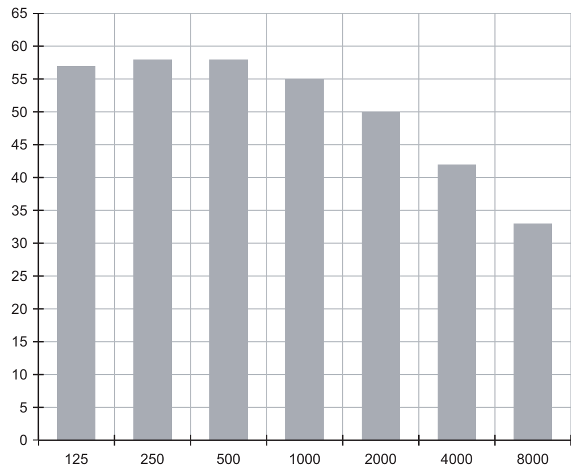
2)AM056FNQDEH/EU



3)AM056FNTDEH/EU



4)AM071FNQDEH/EU



6 Sound power level

Neo Forte

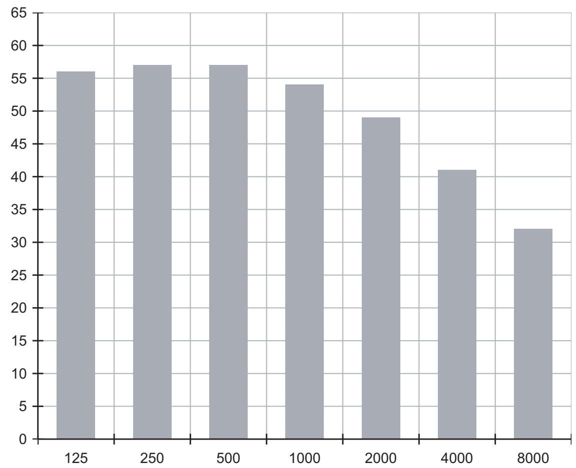
Note

. Specifications may be subject to change without prior notice.
. Sound power level is an absolute value that a sound source generates.
. dBA = A-weighted sound power level.
. Reference power : 1pW.
. Measured according to ISO 3741

Unit: dB(A)

Model	Power
AM071FNTDEH/EU	59

1)AM071FNTDEH/EU

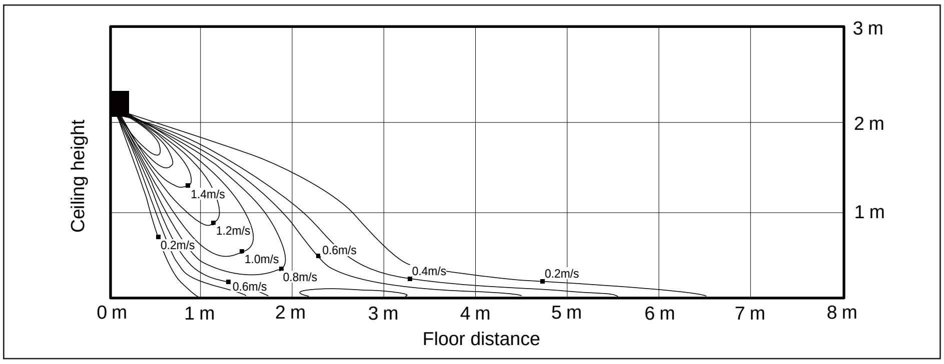


Neo Forte

AM036FNTDEH/EU, AM036FNQDEH/EU

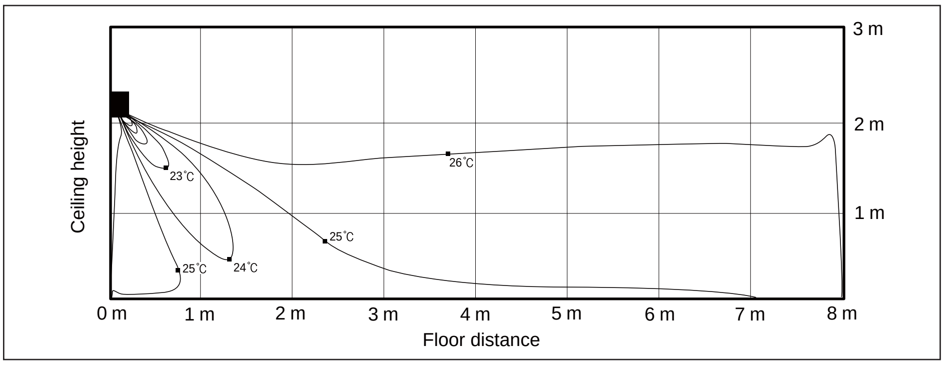
(1) Cooling air velocity distribution

Discharge angle : 60º



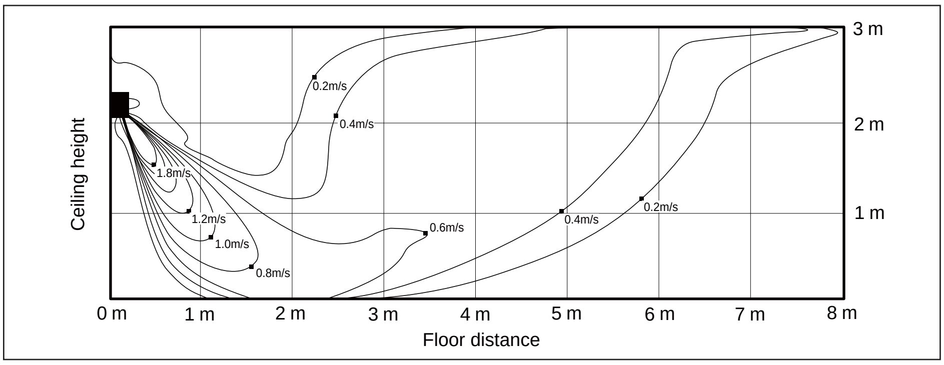
(2) Cooling temperature distribution

Discharge angle : 60º



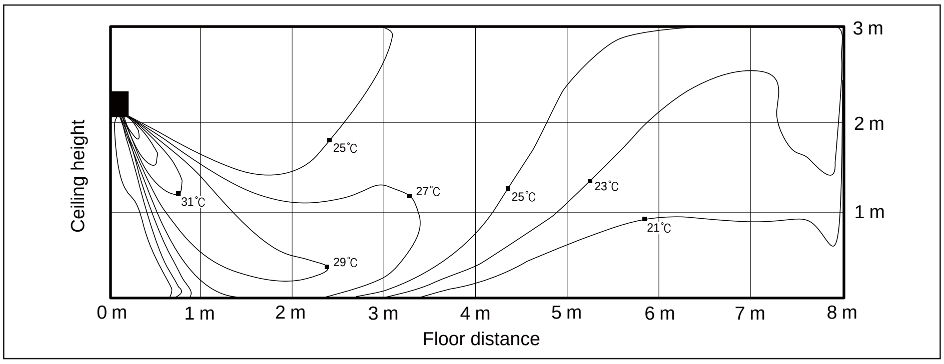
(3) Heating air velocity distribution

Discharge angle : 60º



(4) Heating temperature distribution

Discharge angle : 60º



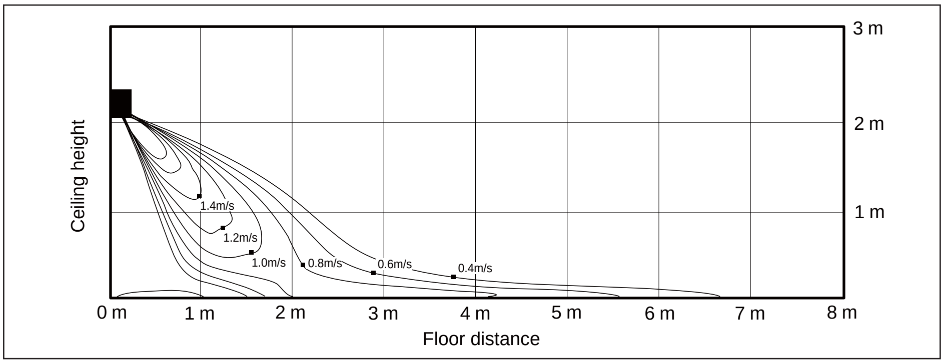
Temperature and air flow distribution

Neo Forte

AM071FNTDEH/EU, AM071FNQDEH/EU

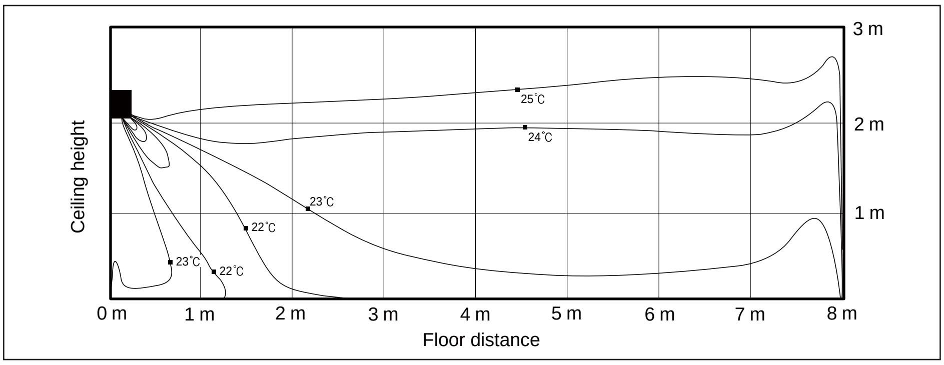
(1) Cooling air velocity distribution

Discharge angle : 60º



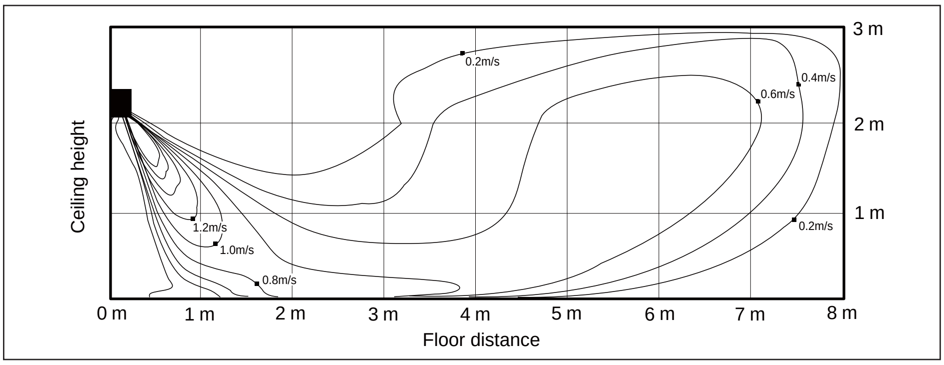
(2) Cooling temperature distribution

Discharge angle : 60º



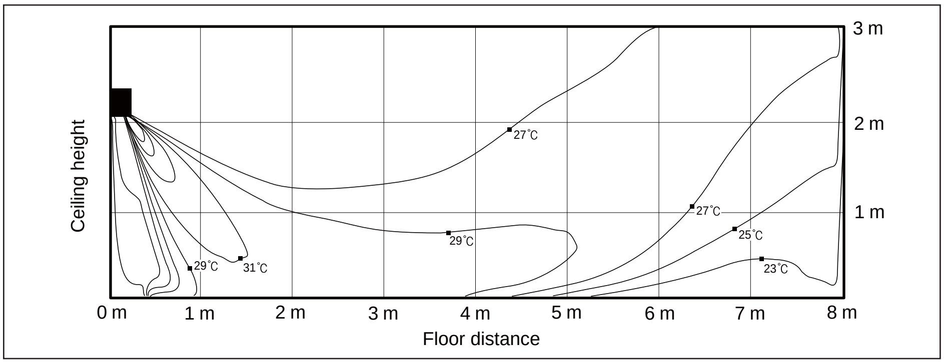
(3) Heating air velocity distribution

Discharge angle : 60º



(4) Heating temperature distribution

Discharge angle : 60º



AR5000

1 Specifications

AR5000

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 / 25 / 24	33 / 29 / 25	36 / 31 / 25
	Power	Cooling		44	50	53
Dimension	Net Weight		kg	7.9	7.9	8.0
	Shipping Weight		kg	9.3	9.3	9.4
	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.
* Heat Exchanger type : Fin & Tube (Fin : Al, Tube : Cu)

1 Specifications

AR5000

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 / 34 / 30	41 / 38 / 34	39 / 36 / 33
	Power	Cooling		54	57	57
Dimension	Net Weight		kg	9.6	9.6	14.5
	Shipping Weight		kg	11.2	11.2	17.7
	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.
* Heat Exchanger type : Fin & Tube (Fin : Al, Tube : Cu)

AR5000

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 / 41 / 36	47 / 43 / 40
	Power	Cooling		61	65
Dimension	Net Weight		kg	14.5	14.5
	Shipping Weight		kg	17.7	17.7
	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.
* Heat Exchanger type : Fin & Tube (Fin : Al, Tube : Cu)

1 Specifications

AR5000

				AR5000	AR5000	AR5000
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 / 24 / 21	33 / 28 / 23	35 / 30 / 25
	Power	Cooling		44	50	53
Dimension	Net Weight		kg	7.7	7.7	7.8
	Shipping Weight		kg	9.1	9.1	9.2
	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.
* Heat Exchanger type : Fin & Tube (Fin : Al, Tube : Cu)

1 Specifications

AR5000

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 / 32 / 29	40 / 37 / 33	39 / 35 / 32
	Power	Cooling		54	57	57
Dimension	Net Weight		kg	9.4	9.4	14.2
	Shipping Weight		kg	11.0	11.0	17.5
	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.
* Heat Exchanger type : Fin & Tube (Fin : Al, Tube : Cu)

1 Specifications

AR5000

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 / 40 / 36	47 / 42 / 40
	Power	Cooling		61	65
Dimension	Net Weight		kg	14.2	14.2
	Shipping Weight		kg	17.5	17.5
	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.
* Heat Exchanger type : Fin & Tube (Fin : Al, Tube : Cu)

2 Capacity table

AR5000

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity

Model	Outdoor temperature (ºC, DB)	Indoor temperature (ºC, 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	3.70	5.60	3.80	5.80	3.80	6.20	3.80	6.60	3.50
	25	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
	27	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

AR5000

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity

Model	Outdoor temperature (ºC, DB)	Indoor temperature (ºC, 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
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

AR5000

Heating

TC : Total Capacity

Model	Outdoor temperature (ºC)		Indoor temperature (ºC, DB)				
			16.0	18.0	20.0	22.0	24.0
			TC	TC	TC	TC	TC
	DB	WB	kW	kW	kW	kW	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
	15	14	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	2.20	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	3.00	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
	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

AR5000

Heating

TC : Total Capacity

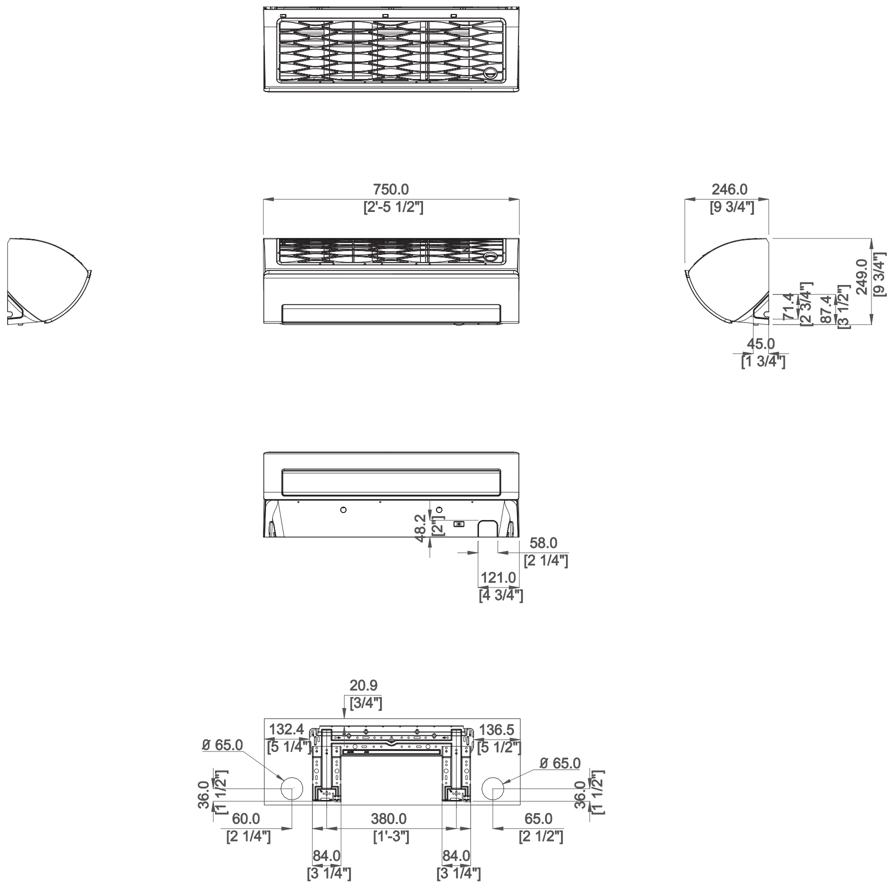
Model	Outdoor temperature (ºC)		Indoor temperature (ºC, DB)				
			16.0	18.0	20.0	22.0	24.0
			TC	TC	TC	TC	TC
	DB	WB	kW	kW	kW	kW	kW
5.60	5	4	6.20	6.10	6.00	5.70	5.30
	7	6	6.50	6.40	6.30	5.80	5.30
	9	8	6.70	6.50	6.30	5.80	5.30
	11	10	6.90	6.60	6.30	5.80	5.30
	13	12	7.10	6.70	6.30	5.80	5.30
	15	14	7.30	6.80	6.30	5.80	5.30
7.10	-20	-21	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
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

AR5000

AM015/022/028JN*DKH***

Units : mm / inches

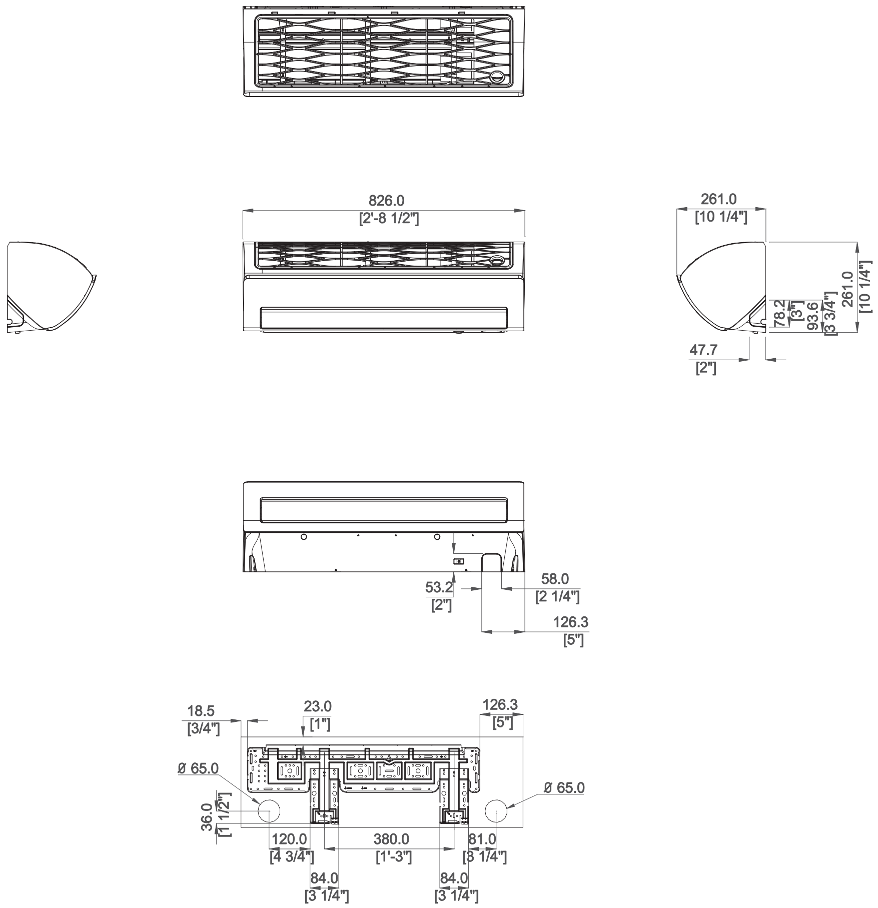


No.	Name	Description		
		1.5kW	2.2kW	2.8kW
1	Refrigerant gas pipe	Ø12.7 Flare		
2	Refrigerant liquid pipe	Ø6.35 Flare		
3	Drain pipe connection	ID 18 Hose		

AR5000

AM036/045JN*DKH***

Units : mm / inches



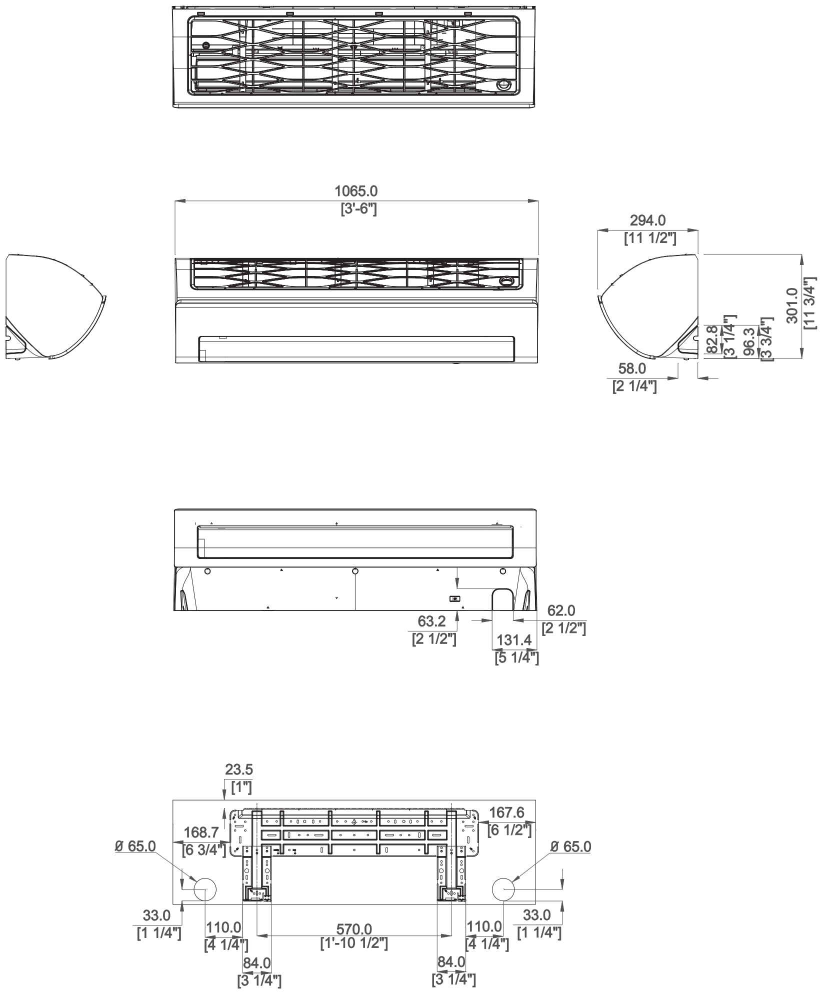
No.	Name	Description	
		3.6kW	4.5kW
1	Refrigerant gas pipe	Ø12.7 Flare	
2	Refrigerant liquid pipe	Ø6.35 Flare	
3	Drain pipe connection	ID 18 Hose	

3 Dimensional drawing

AR5000

AM056/071/082JN*DKH***

Units : mm / inches

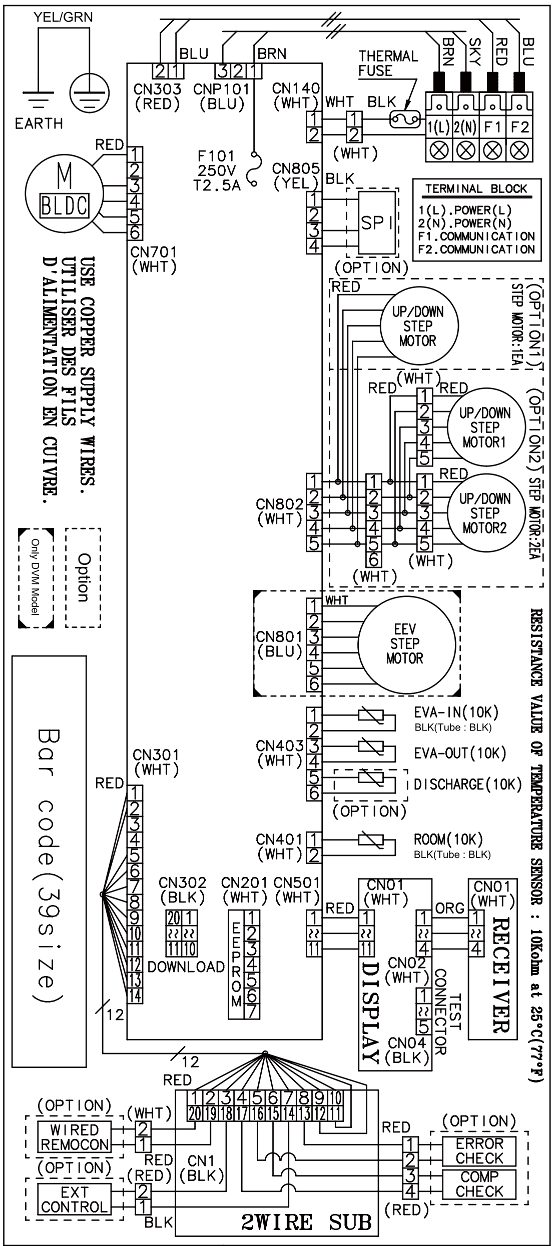


No.	Name	Description		
		5.6kW	7.1kW	8.2kW
1	Refrigerant gas pipe	Ø12.7 Flare	Ø15.88 Flare	
2	Refrigerant liquid pipe	Ø6.35 Flare	Ø9.52 Flare	
3	Drain pipe connection	ID 18 Hose		

4 Electrical Wiring Diagram

AR5000

AM015/022/028/036/045/056/071/082JNADKH/EU, AM015/022/028/036/045/056/071/082JNVDKH/EU



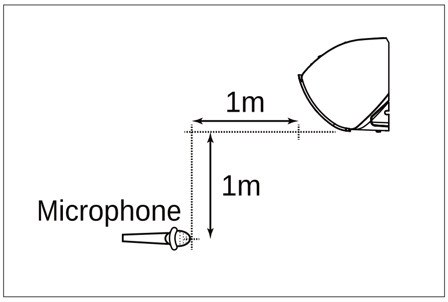
LED LAMP DISPLAY			DESCRIPTION
OPERATION	TIMER	TURBO	
⏻	🕘	TURBO	○:ON ×:OFF ◑:BLINKS
×	◑	×	ROOM TEMPERATURE SENSOR ERROR(OPEN/SHORT)
◑	◑	×	EVA-IN/OUT TEMPERATURE SENSOR ERROR(OPEN/SHORT)
×	×	◑	FAN RPM FEEDBACK ERROR(INDOOR UNIT)
◑	×	◑	TEMPERATURE SENSOR ERROR(OUTDOOR UNIT)
×	◑	◑	COMMUNICATION ERROR(OUTDOOR UNIT↔INDOOR UNIT)
○	◑	◑	SELF-DIAGNOSIS/ERROR OF OUTDOOR UNIT (CHECK ERROR CODE AT OUTDOOR UNIT'S OR SOLUTION DISPLAY)
◑	◑	◑	EEPROM ERROR/EEPROM OPTION ERROR(INDOOR UNIT)
◑	○	◑	NO MATCH BETWEEN OUTDOOR UNIT AND INDOOR UNIT

NOTE

1. This wiring diagram applies only to the indoor unit.
2. Symbols show as follow;
   BLK : black, RED : red, BLU : blue, WHT:white, YEL : yellow, BRN : brown, SKY : sky-blue, GRN : green
3. For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remotecontroller transmission F3-F4.
4. : Protective earth(screw), : Connector, n : The wire quantity

5 Sound pressure level

AR5000



Unit: dB(A)

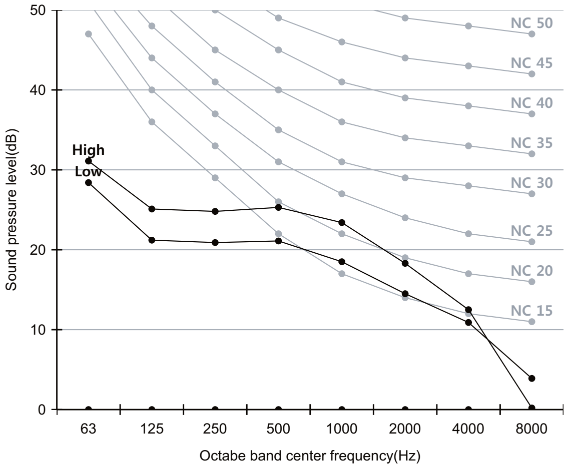
Model	High	Low
AM015JNVDKH/EU	28	24
AM022JNVDKH/EU	33	25
AM028JNVDKH/EU	36	25
AM036JNVDKH/EU	37	30

Note

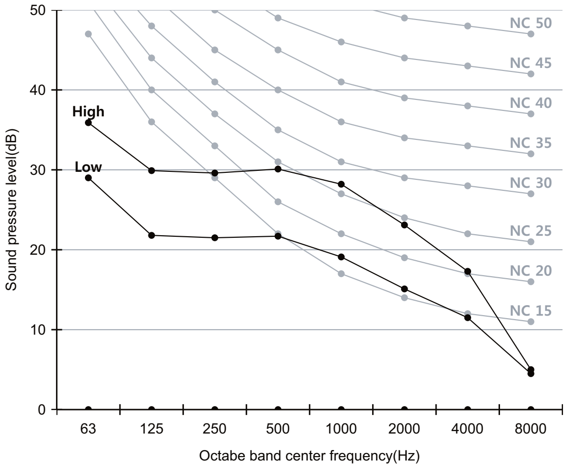
Specifications may be subject to change without prior notice.
Sound pressure level is obtained in an anechoic room.
Sound pressure level is a relative value, depending on the distance and acoustic environment.
Sound pressure level may differ depending on operation condition.
dBA = A-weighted sound pressure level
Reference acoustic pressure 0 dB= 20 uPa

NC curve

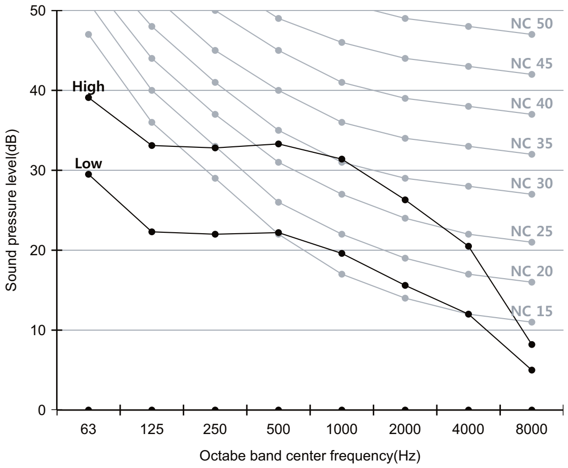
1) AM015JNVDKH/EU



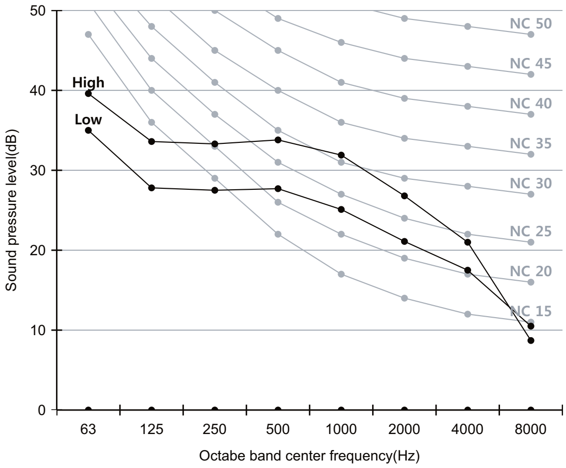
2) AM022JNVDKH/EU



3) AM028JNVDKH/EU

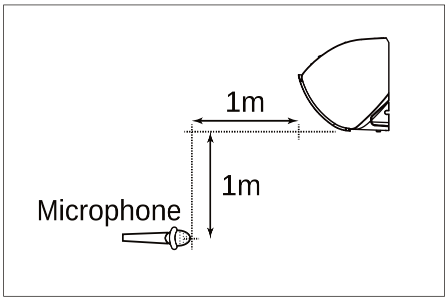


4) AM036JNVDKH/EU



5 Sound pressure level

AR5000



Unit: dB(A)

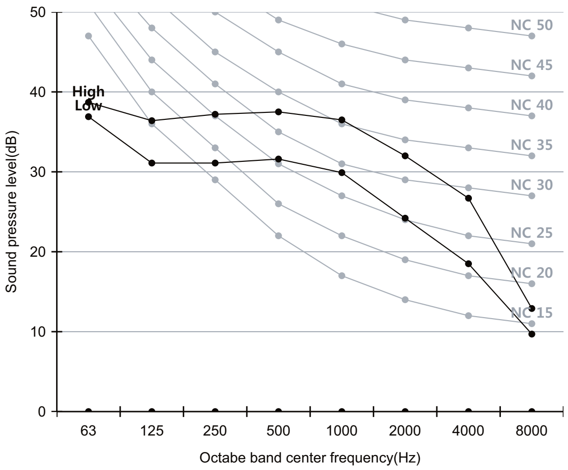
Model	High	Low
AM045JNVDKH/EU	41	34
AM056JNVDKH/EU	39	33
AM071JNVDKH/EU	44	36
AM082JNVDKH/EU	47	40

Note

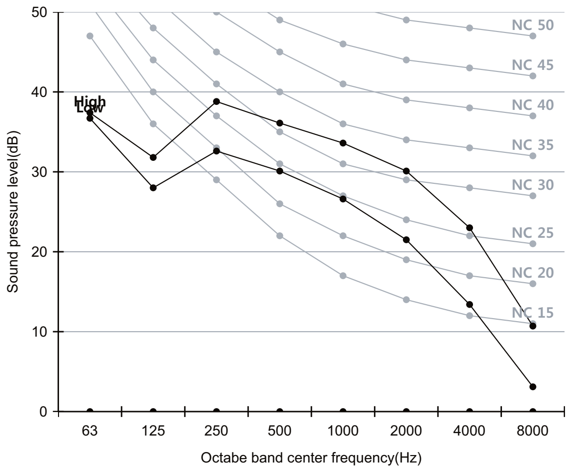
Specifications may be subject to change without prior notice.
Sound pressure level is obtained in an anechoic room.
Sound pressure level is a relative value, depending on the distance and acoustic environment.
Sound pressure level may differ depending on operation condition.
dBA = A-weighted sound pressure level
Reference acoustic pressure 0 dB= 20 uPa

NC curve

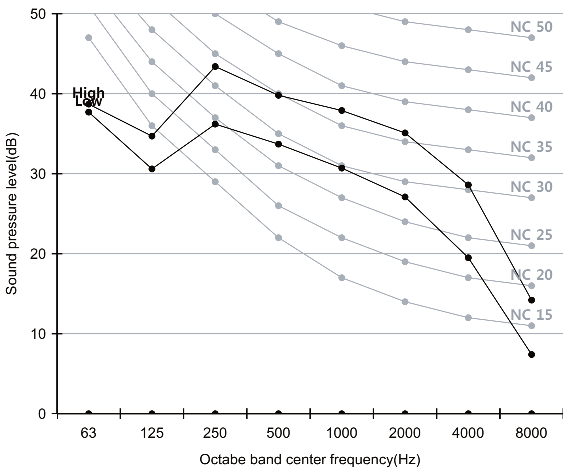
1) AM045JNVDKH/EU



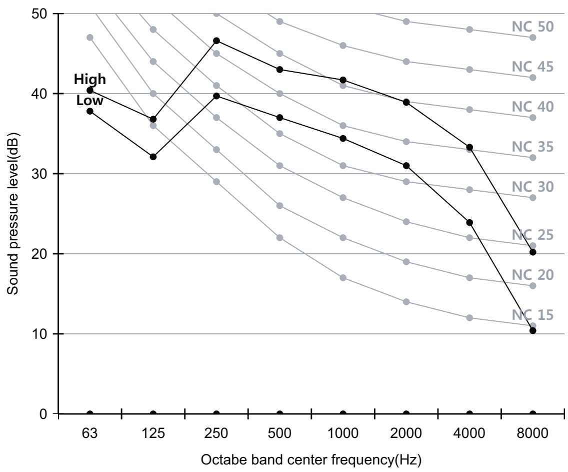
2) AM056JNVDKH/EU



3) AM071JNVDKH/EU

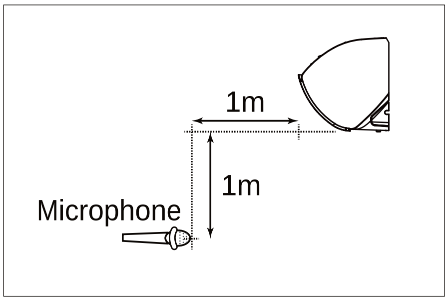


4) AM082JNVDKH/EU



5 Sound pressure level

AR5000



Unit: dB(A)

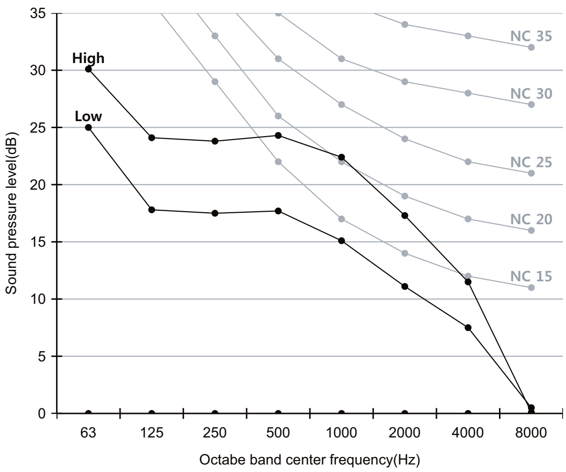
Model	High	Low
AM015JNADKH/EU	26	21
AM022JNADKH/EU	33	23
AM028JNADKH/EU	35	25
AM036JNADKH/EU	36	29

Note

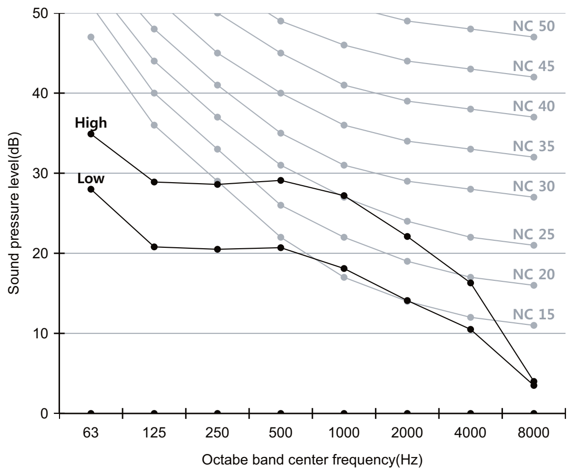
Specifications may be subject to change without prior notice.
Sound pressure level is obtained in an anechoic room.
Sound pressure level is a relative value, depending on the distance and acoustic environment.
Sound pressure level may differ depending on operation condition.
dBA = A-weighted sound pressure level
Reference acoustic pressure 0 dB= 20 uPa

NC curve

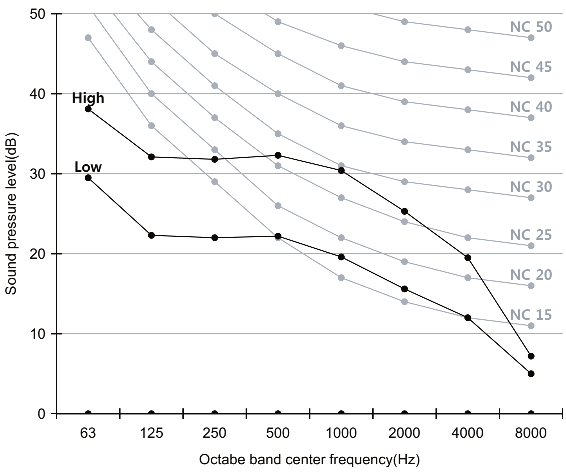
1) AM015JNADKH/EU



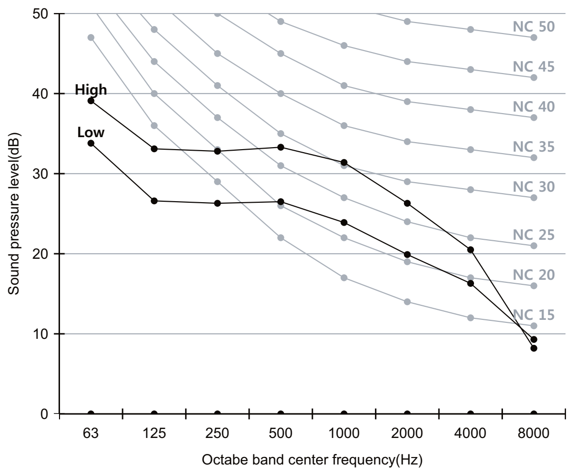
2) AM022JNADKH/EU



3) AM028JNADKH/EU

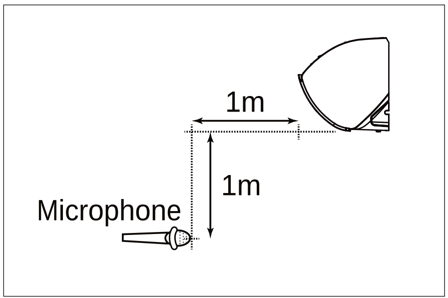


4) AM036JNADKH/EU



5 Sound pressure level

AR5000



Model	High	Low
AM045JNADKH/EU	40	33
AM056JNADKH/EU	39	32
AM071JNADKH/EU	44	36
AM082JNADKH/EU	47	40

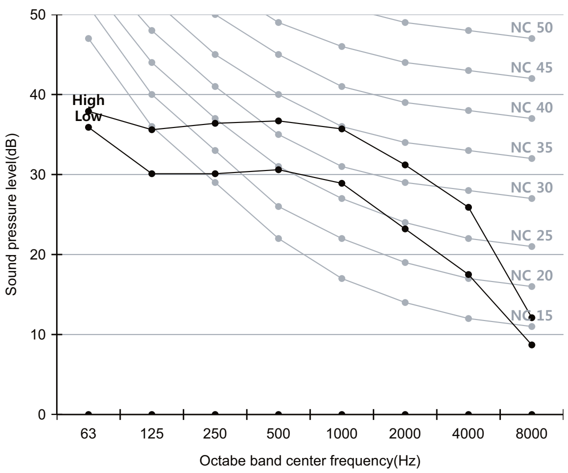
Unit: dB(A)

Note

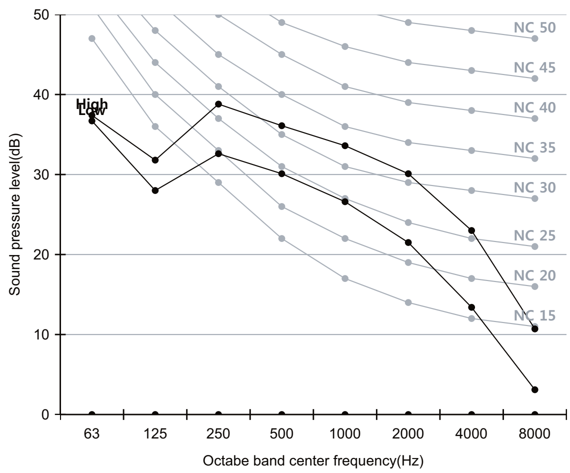
Specifications may be subject to change without prior notice.
Sound pressure level is obtained in an anechoic room.
Sound pressure level is a relative value, depending on the distance and acoustic environment.
Sound pressure level may differ depending on operation condition.
dBA = A-weighted sound pressure level
Reference acoustic pressure 0 dB= 20 uPa

NC curve

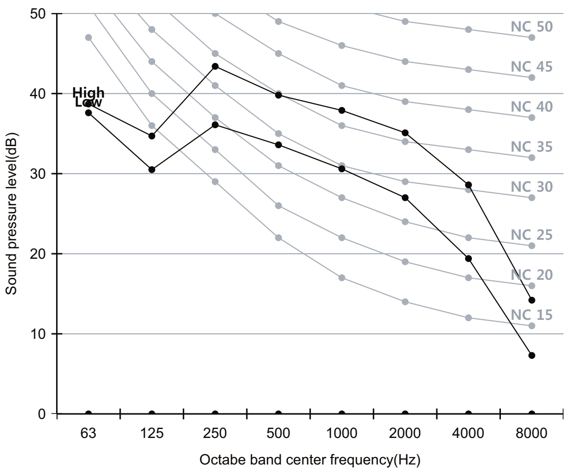
1) AM045JNADKH/EU



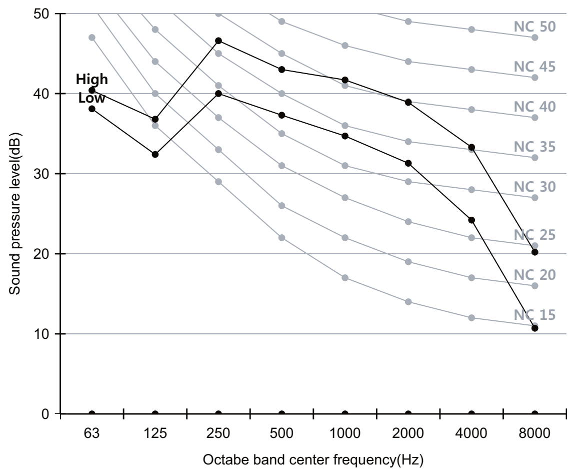
2) AM056JNADKH/EU



3) AM071JNADKH/EU



4) AM082JNADKH/EU



6 Sound power level

AR5000

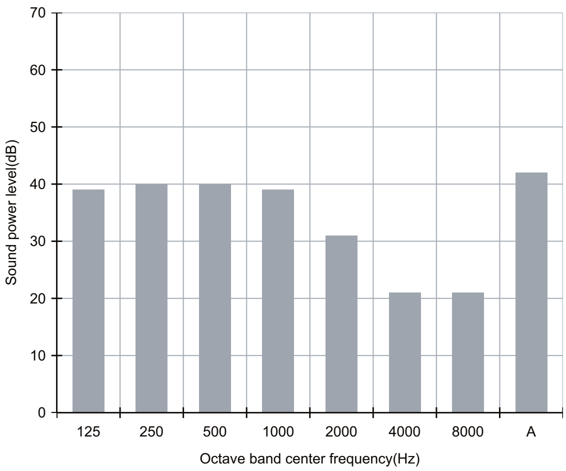
Note

. Specifications may be subject to change without prior notice.
. Sound power level is an absolute value that a sound source generates.
. dBA = A-weighted sound power level.
. Reference power : 1pW.
. Measured according to ISO 3741

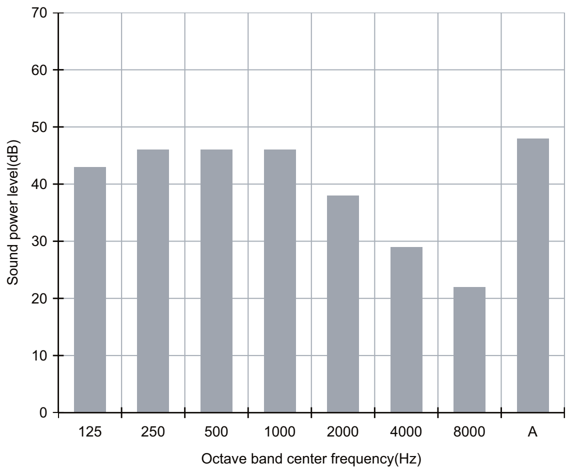
Unit: dB(A)

Model	Power
AM015JN*DKH/EU	44
AM022JN*DKH/EU	50
AM028JN*DKH/EU	53
AM036JN*DKH/EU	54

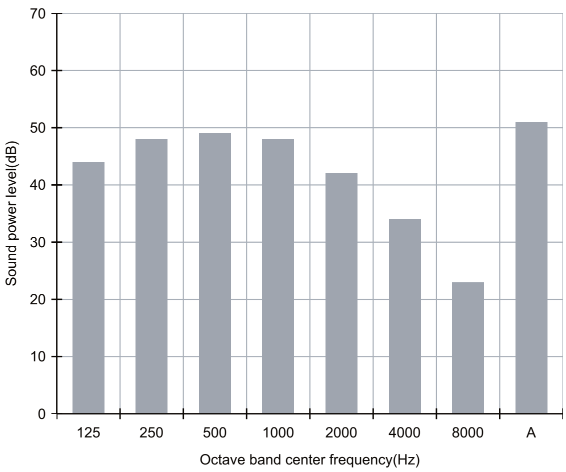
1)AM015JN*DKH/EU



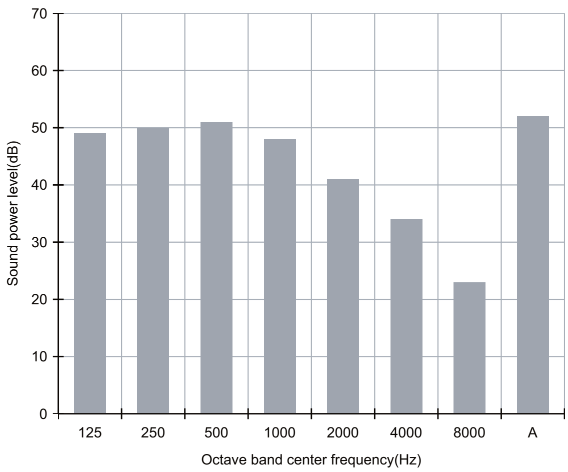
2)AM022JN*DKH/EU



3)AM028JN*DKH/EU



4)AM036JN*DKH/EU



6 Sound power level

AR5000

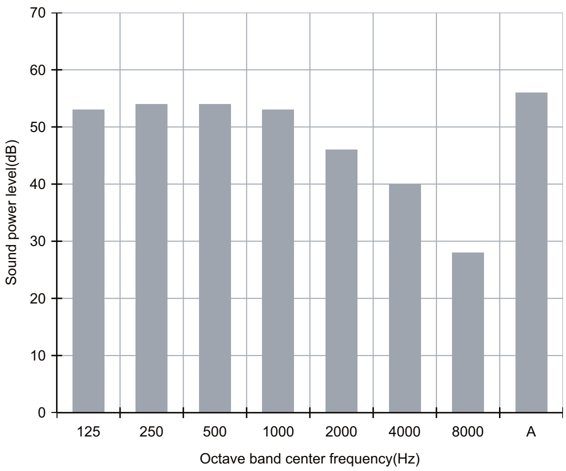
Note

. Specifications may be subject to change without prior notice.
. Sound power level is an absolute value that a sound source generates.
. dBA = A-weighted sound power level.
. Reference power : 1pW.
. Measured according to ISO 3741

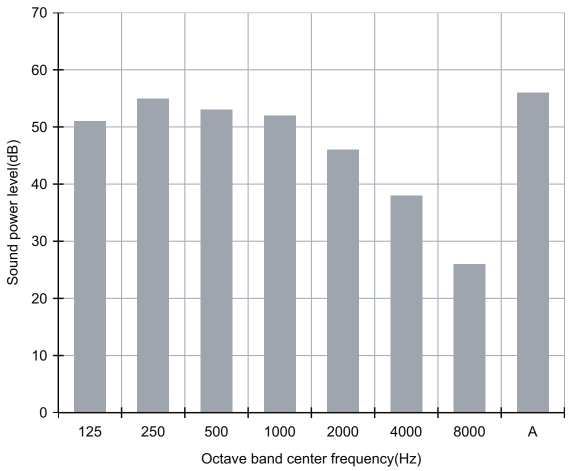
Unit: dB(A)

Model	Power
AM045JN*DKH/EU	57
AM056JN*DKH/EU	57
AM071JN*DKH/EU	61
AM082JN*DKH/EU	65

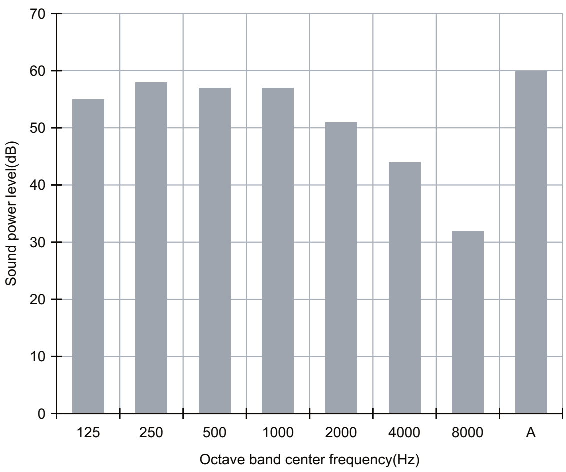
1)AM045JN*DKH/EU



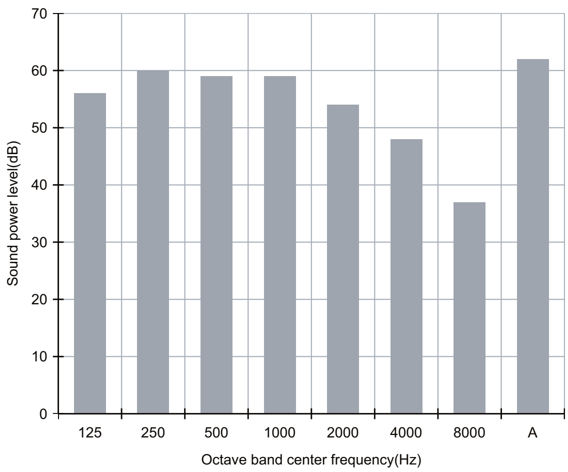
2)AM056JN*DKH/EU



3)AM071JN*DKH/EU



4)AM082JN*DKH/EU



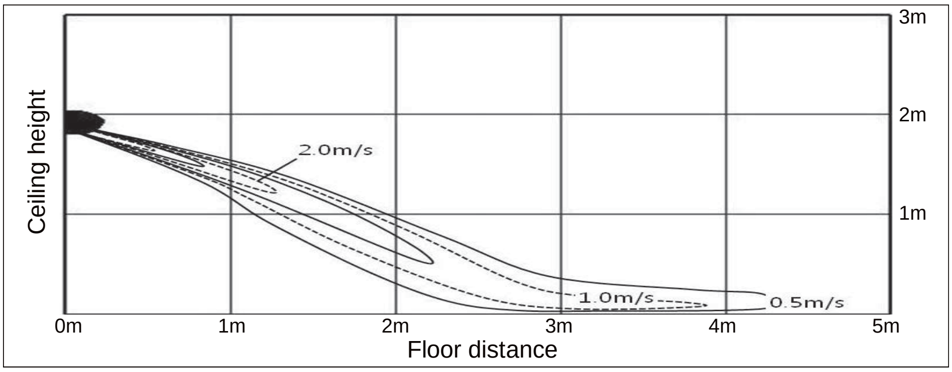
7 Temperature and air flow distribution

AR5000

AM015/022/028JNADKH/EU, AM015/022/028JNVDKH/EU

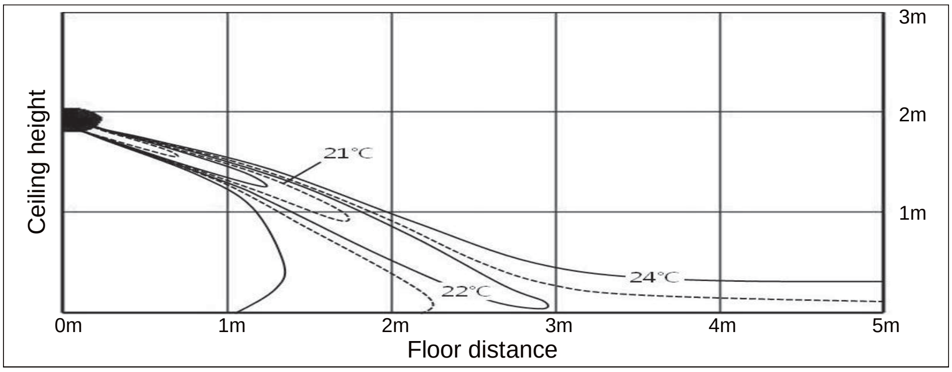
(1) Cooling air velocity distribution

Discharge angle : 25º



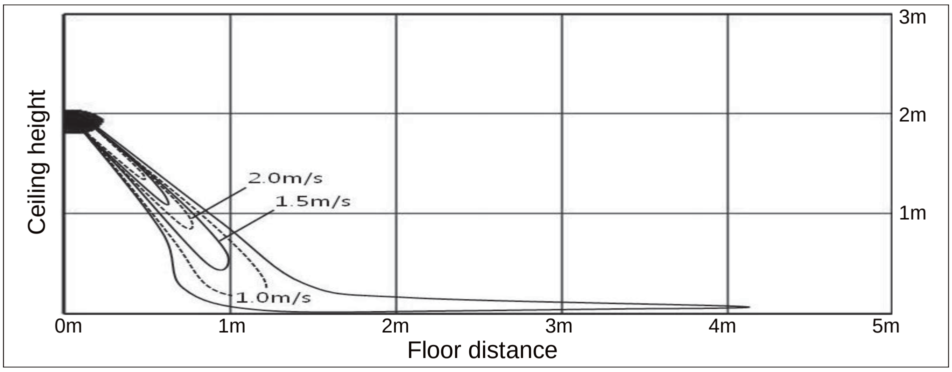
(2) Cooling temperature distribution

Discharge angle : 25º



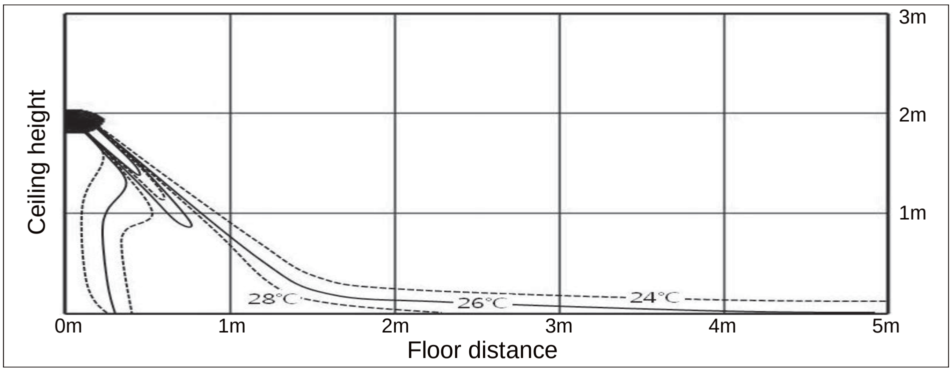
(3) Heating air velocity distribution

Discharge angle : 55º



(4) Heating temperature distribution

Discharge angle : 55º

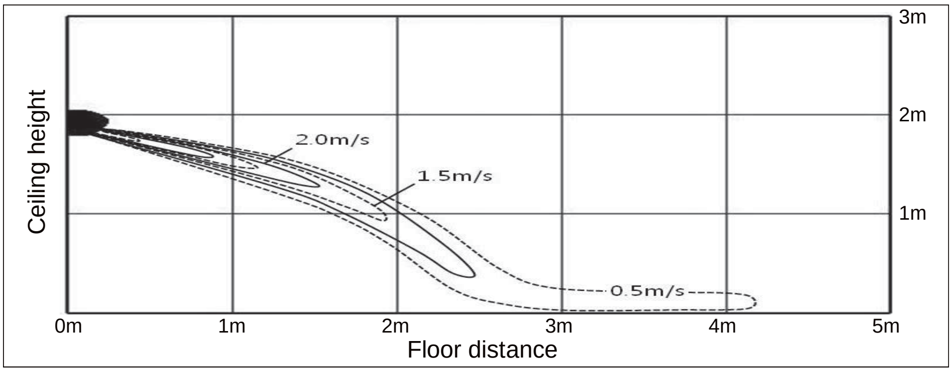


AR5000

AM036/045JNADKH/EU, AM036/045JNVDKH/EU

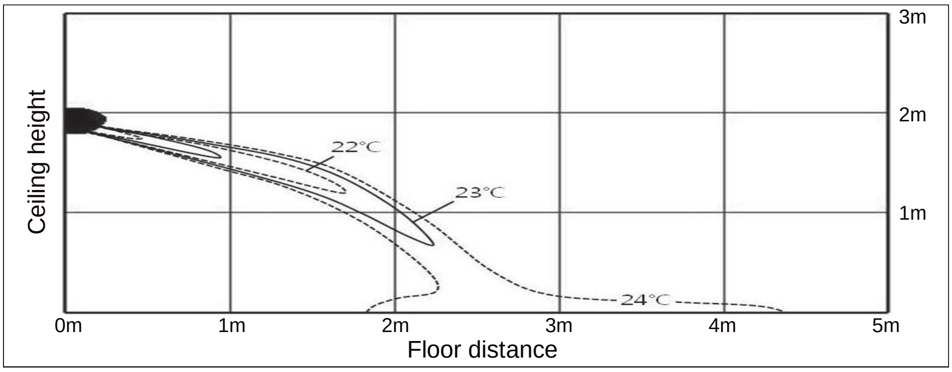
(1) Cooling air velocity distribution

Discharge angle : 18º



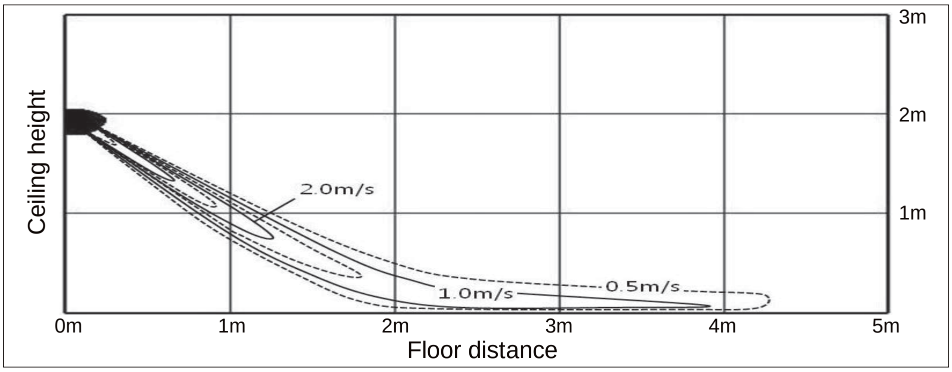
(2) Cooling temperature distribution

Discharge angle : 18º



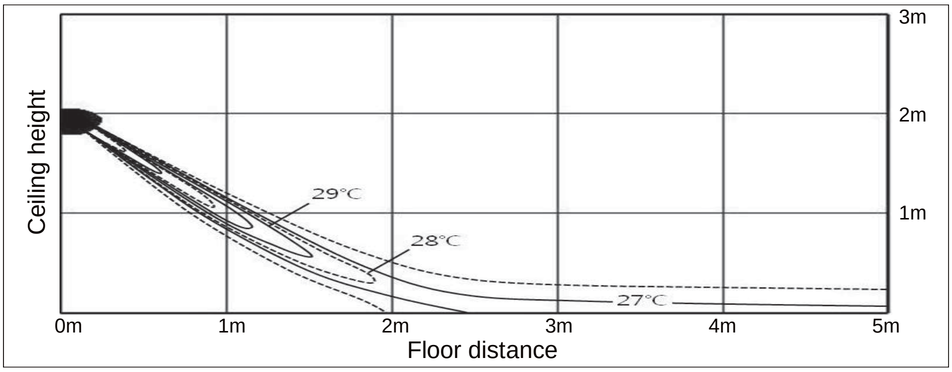
(3) Heating air velocity distribution

Discharge angle : 46º



(4) Heating temperature distribution

Discharge angle : 46º



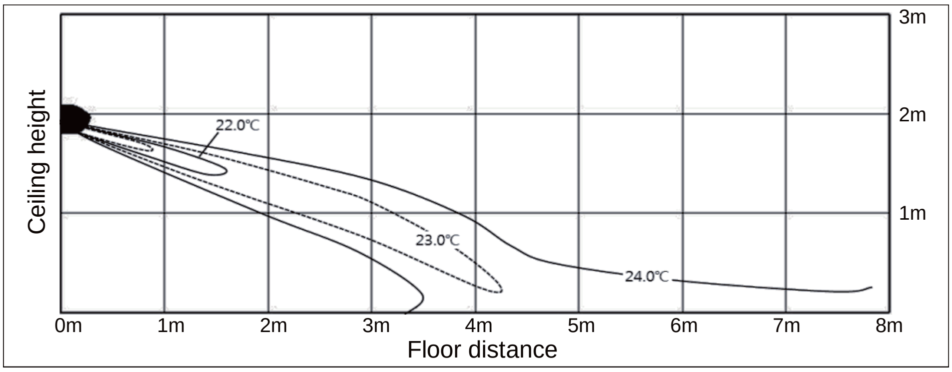
7 Temperature and air flow distribution

AR5000

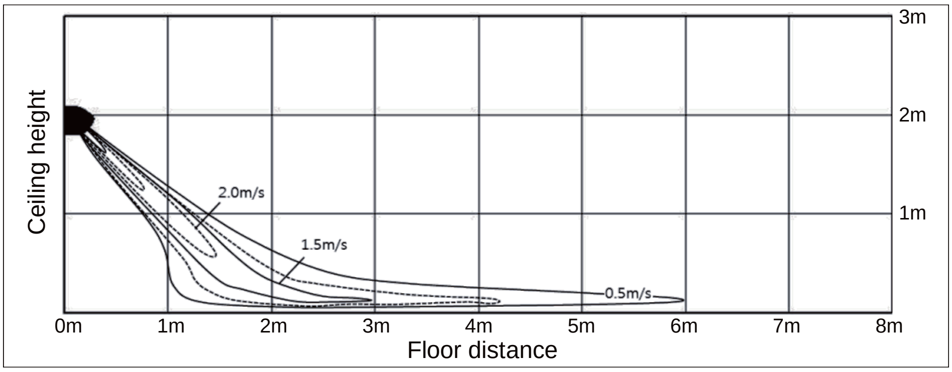
AM056JNADKH/EU, AM056JNVDKH/EU

(1) Cooling air velocity distribution   Discharge angle : 18º

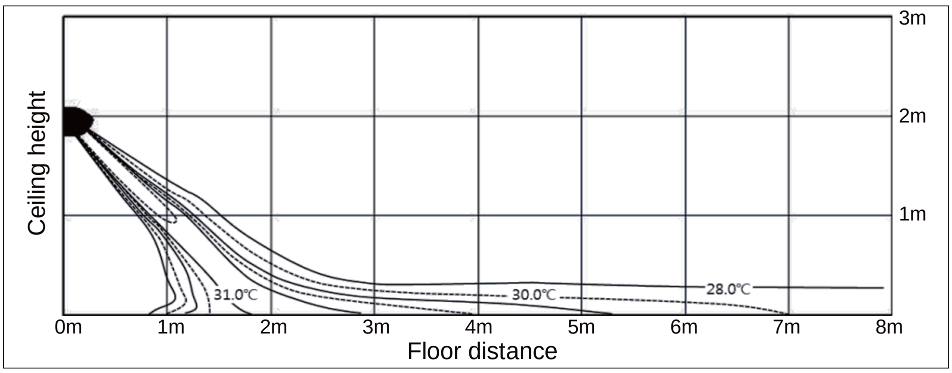
(2) Cooling temperature distribution   Discharge angle : 18º



(3) Heating air velocity distribution   Discharge angle : 46º



(4) Heating temperature distribution   Discharge angle : 46º



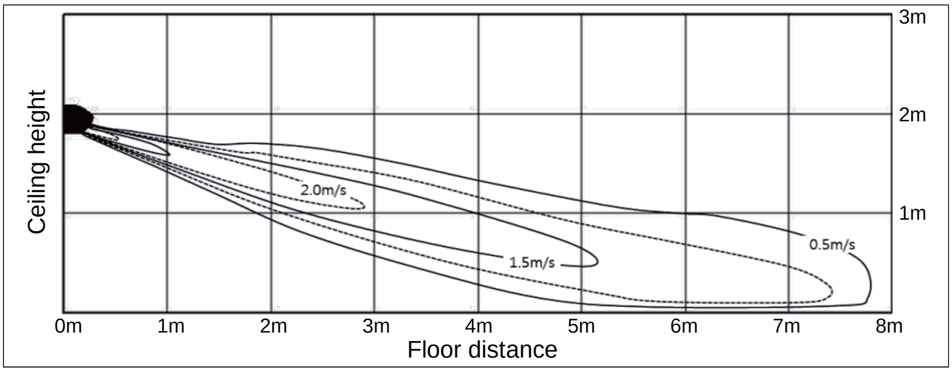
7 Temperature and air flow distribution

AR5000

AM071JNADKH/EU, AM071JNVDKH/EU

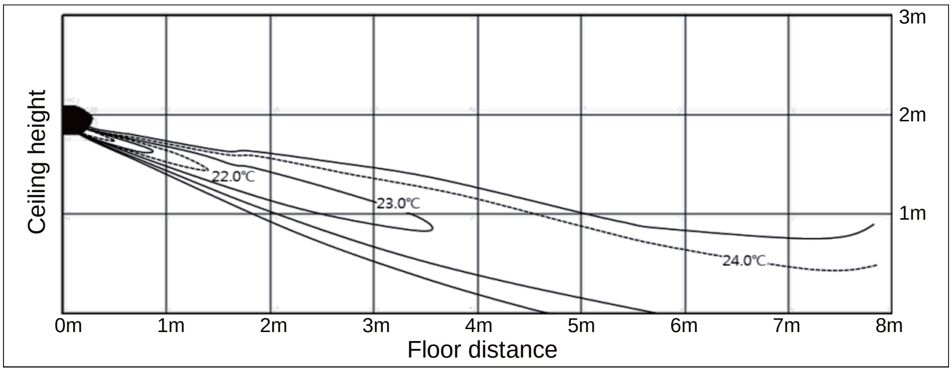
(1) Cooling air velocity distribution

Discharge angle : 18º



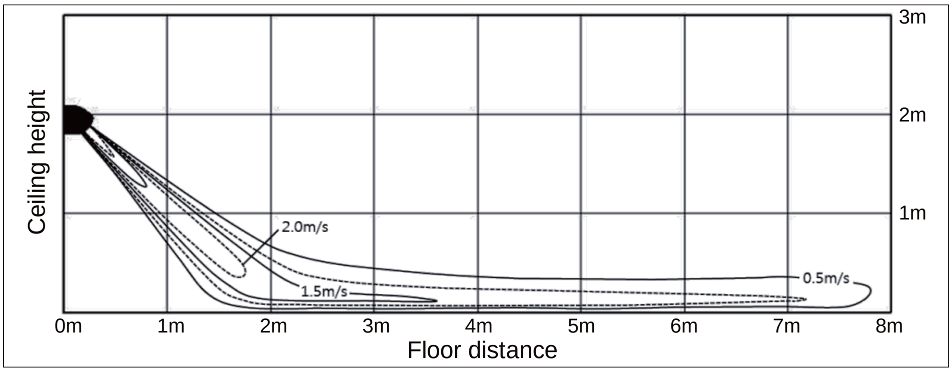
(2) Cooling temperature distribution

Discharge angle : 18º



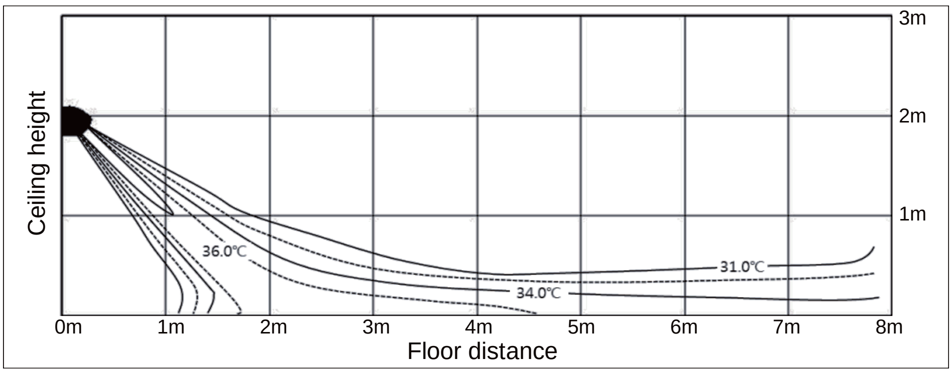
(3) Heating air velocity distribution

Discharge angle : 46º



(4) Heating temperature distribution

Discharge angle : 46º



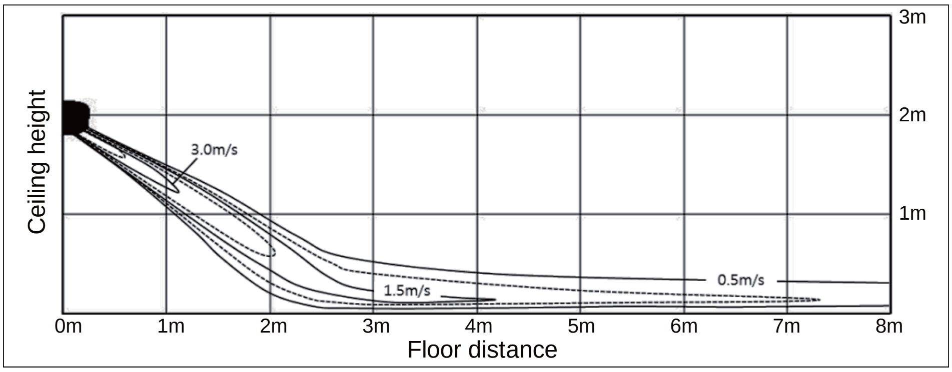
7 Temperature and air flow distribution

AR5000

AM082JNADKH/EU, AM082JNVDKH/EU

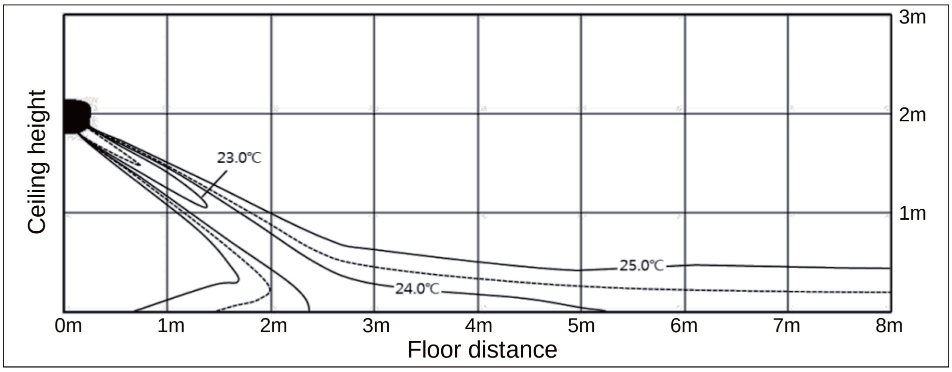
(1) Cooling air velocity distribution

Discharge angle : 32º



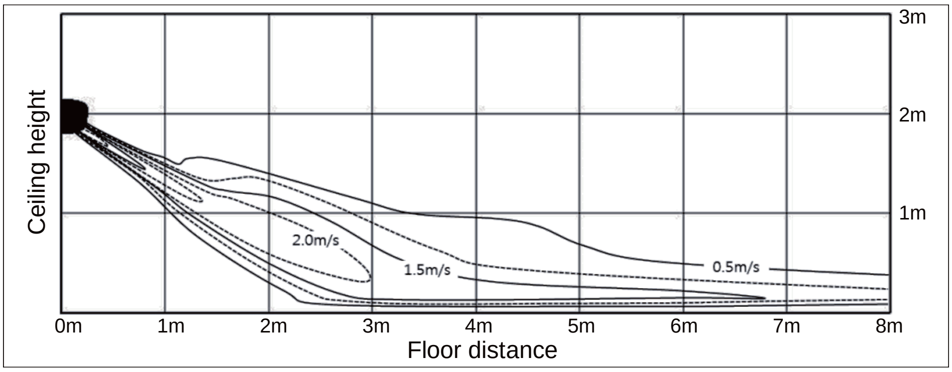
(2) Cooling temperature distribution

Discharge angle : 32º



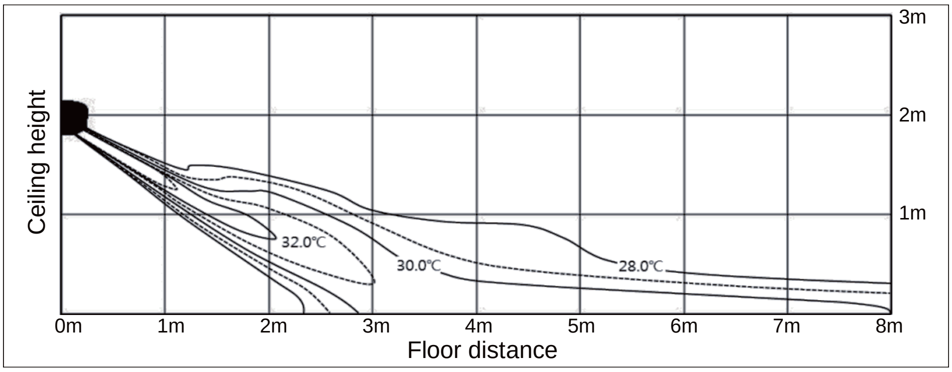
(3) Heating air velocity distribution

Discharge angle : 32º



(4) Heating temperature distribution

Discharge angle : 32º



BORACAY

1. Specification

BORACAY

Type				WALL MOUNTED	WALL MOUNTED	WALL MOUNTED	WALL MOUNTED
Model CODE				AM015KNTDEH/EU	AM022KNTDEH/EU	AM028KNTDEH/EU	AM036KNTDEH/EU
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			-	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP
Performance	Capacity (Nominal)	Cooling	kW	1.5	2.2	2.8	3.6
			Btu/h	5,100	7,500	9.600	12,300
		Heating	kW	1.7	2.5	3.2	4.0
			Btu/h	5,800	8,500	10,900	13,600
Power	Power Input (Nominal)	Cooling	W	32.0	32.0	38.0	42.0
		Heating		34.0	35.0	39.0	42.0
	Current Input (Nominal)	Cooling	A	0.20	0.20	0.22	0.23
		Heating		0.20	0.20	0.22	0.23
	MCA			0.3	0.3	0.4	0.4
	MFA			15.0	15.0	15.0	15.0
Heat exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al	Al
		Tube	-	Cu	Cu	Cu	Cu
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion	Anti-corrosion
Fan	Type		-	Crossflow Fan	Crossflow Fan	Crossflow Fan	Crossflow Fan
	Quantity		ea	1	1	1	1
	Air Flow Rate	H/M/L (UL)	CMM	6.2/5.7/5.1	6.6/5.7/5.1	7.0/6.2/5.5	8.5/7.5/6.6
			l/s	103.3/95.0/85.0	110.0/95.0/85.0	116.7/103.3/91.7	141.7/125.0/110.0
	External Pressure	Min/Std/Max	mmAq	-	-	-	-
			Pa	-	-	-	-
Fan motor	Type		-	SSR Feedback	SSR Feedback	SSR Feedback	SSR Feedback
	Output x n		-	19W x 1	19W x 1	19W x 1	19W x 1
Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection	Flare connection	Flare connection
			Ø, mm	6.35	6.35	6.35	6.35
			Ø, inch	1/4"	1/4"	1/4"	1/4"
	Gas Pipe		Type	Flare connection	Flare connection	Flare connection	Flare connection
			Ø, mm	12.7	12.7	12.7	12.7
			Ø, inch	1/2"	1/2"	1/2"	1/2"
	Drain Pipe		Ø, mm	ID 18 HOSE	ID 18 HOSE	ID 18 HOSE	ID 18 HOSE
	Heat insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
Field Wiring	Power Source Wire	Minimum	mm2	1.5	1.5	1.5	1.5
	For connection with indoor	Minimum	mm2	0.75	0.75	0.75	0.75
		Remark	-	F1, F2	F1, F2	F1, F2	F1, F2
Refrigerant	Type		-	R410A	R410A	R410A	R410A
	Control Method		-	EEV NOT INCLUDED	EEV NOT INCLUDED	EEV NOT INCLUDED	EEV NOT INCLUDED
Sound	Sound Pressure	High/Mid/Low	dB(A)	30/28/25	31/28/25	31/29/26	36/33/29
	Sound Power	Cooling		47	48	48	51
Dimensions	Net Weight		kg	8.0	8.0	8.5	8.5
	Shipping Weight		kg	9.7	9.7	10.2	10.2
	Net Dimensions (W×H×D)		mm	820 x 285 x 227	820 x 285 x 227	820 x 285 x 227	820 x 285 x 227
	Shipping Dimensions (W×H×D)		mm	880 x 280 x 363	880 x 280 x 363	880 x 280 x 363	880 x 280 x 363

NOTE

- 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.
- Select wire size based on the value of MCA

1. Specification

BORACAY

Type				WALL MOUNTED	WALL MOUNTED	WALL MOUNTED
Model CODE				AM045KNTDEH/EU	AM056KNTDEH/EU	AM071KNTDEH/EU
Power Supply			Ø, #, V, Hz	1,2,220-240,50	1,2,220-240,50	1,2,220-240,50
Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP
Performance	Capacity (Nominal)	Cooling	kW	4.5	5.6	6.8
			Btu/h	15,400	19,100	23,200
		Heating	kW	5.0	6.3	7.0
			Btu/h	17,100	21,500	23.900
Power	Power Input (Nominal)	Cooling	W	47.0	48.0	51.0
		Heating		47.0	48.0	53.0
	Current Input (Nominal)	Cooling	A	0.27	0.27	0.28
		Heating		0.27	0.27	0.28
	MCA			0.4	0.4	0.4
	MFA			15.0	15.0	15.0
Heat exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion
Fan	Type		-	Crossflow Fan	Crossflow Fan	Crossflow Fan
	Quantity		ea	1	1	1
	Air Flow Rate	H/M/L (UL)	CMM	13.9/12.4/11.2	14.4/12.9/11.2	15.7/14.1/12.9
			l/s	231.7/206.7/186.7	240.0/215.0/186.7	261.7/235.0/215.0
	External Pressure	Min/Std/Max	mmAq	-	-	-
			Pa	-	-	-
Fan motor	Type		-	SSR Feedback	SSR Feedback	SSR Feedback
	Output x n		-	28W x 1	28W x 1	28W x 1
Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection	Flare connection
			Ø, mm	6.35	6.35	9.52
			Ø, inch	1/4"	1/4"	3/8"
	Gas Pipe		Type	Flare connection	Flare connection	Flare connection
			Ø, mm	12.7	12.7	15.88
			Ø, inch	1/2"	1/2"	5/8"
	Drain Pipe		Ø, mm	ID 18 HOSE	ID 18 HOSE	ID 18 HOSE
	Heat insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
Field Wiring	Power Source Wire	Minimum	mm2	1.5	1.5	1.5
	For connection with indoor	Minimum	mm2	0.75	0.75	0.75
		Remark	-	F1, F2	F1, F2	F1, F2
Refrigerant	Type		-	R410A	R410A	R410A
	Control Method		-	EEV NOT INCLUDED	EEV NOT INCLUDED	EEV NOT INCLUDED
Sound	Sound Pressure	High/Mid/Low	dB(A)	38/35/33	39/36/33	40/38/35
	Sound Power	Cooling		53	53	55
Dimensions	Net Weight		kg	12.0	12.0	12.0
	Shipping Weight		kg	14.0	14.0	14.0
	Net Dimensions (W×H×D)		mm	1065 x 298 x 243	1065 x 298 x 243	1065 x 298 x 243
	Shipping Dimensions (W×H×D)		mm	1128 x 299 x 378	1128 x 299 x 378	1128 x 299 x 378

NOTE

- 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.
- Select wire size based on the value of MCA

1. Specification

BORACAY

Type				WALL MOUNTED	WALL MOUNTED	WALL MOUNTED	WALL MOUNTED
Model CODE				AM015KNQDEH/EU	AM022KNQDEH/EU	AM028KNQDEH/EU	AM036KNQDEH/EU
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			-	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP
Performance	Capacity (Nominal)	Cooling	kW	1.5	2.2	2.8	3.6
			Btu/h	5,100	7,500	9.600	12,300
		Heating	kW	1.7	2.5	3.2	4.0
			Btu/h	5,800	8,500	10,900	13,600
Power	Power Input (Nominal)	Cooling	W	32.0	32.0	38.0	42.0
		Heating		34.0	35.0	39.0	42.0
	Current Input (Nominal)	Cooling	A	0.20	0.20	0.22	0.23
		Heating		0.20	0.20	0.22	0.23
	MCA			0.3	0.3	0.4	0.4
	MFA			15.0	15.0	15.0	15.0
Heat exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al	Al
		Tube	-	Cu	Cu	Cu	Cu
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion	Anti-corrosion
Fan	Type		-	Crossflow Fan	Crossflow Fan	Crossflow Fan	Crossflow Fan
	Quantity		ea	1	1	1	1
	Air Flow Rate	H/M/L (UL)	CMM	6.2/5.7/5.1	6.6/5.7/5.1	7.0/6.2/5.5	8.5/7.5/6.6
			l/s	103.3/95.0/85.0	110.0/95.0/85.0	116.7/103.3/91.7	141.7/125.0/110.0
	External Pressure	Min/Std/Max	mmAq	-	-	-	-
			Pa	-	-	-	-
Fan motor	Type		-	SSR Feedback	SSR Feedback	SSR Feedback	SSR Feedback
	Output x n		-	19W x 1	19W x 1	19W x 1	19W x 1
Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection	Flare connection	Flare connection
			Ø, mm	6.35	6.35	6.35	6.35
			Ø, inch	1/4"	1/4"	1/4"	1/4"
	Gas Pipe		Type	Flare connection	Flare connection	Flare connection	Flare connection
			Ø, mm	12.7	12.7	12.7	12.7
			Ø, inch	1/2"	1/2"	1/2"	1/2"
	Drain Pipe		Ø, mm	ID 18 HOSE	ID 18 HOSE	ID 18 HOSE	ID 18 HOSE
	Heat insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
Field Wiring	Power Source Wire	Minimum	mm2	1.5	1.5	1.5	1.5
	For connection with indoor	Minimum	mm2	0.75	0.75	0.75	0.75
		Remark	-	F1, F2	F1, F2	F1, F2	F1, F2
Refrigerant	Type		-	R410A	R410A	R410A	R410A
	Control Method		-	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound	Sound Pressure	High/Mid/Low	dB(A)	30/28/25	31/28/25	31/29/26	36/33/29
	Sound Power	Cooling		47	48	48	51
Dimensions	Net Weight		kg	8.5	8.5	9.0	9.0
	Shipping Weight		kg	10.2	10.2	10.6	10.6
	Net Dimensions (W×H×D)		mm	820 x 285 x 227	820 x 285 x 227	820 x 285 x 227	820 x 285 x 227
	Shipping Dimensions (W×H×D)		mm	880 x 280 x 363	880 x 280 x 363	880 x 280 x 363	880 x 280 x 363

NOTE

- 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.
- Select wire size based on the value of MCA

1. Specification

BORACAY

Type				WALL MOUNTED	WALL MOUNTED	WALL MOUNTED
Model CODE				AM045KNQDEH/EU	AM056KNQDEH/EU	AM071KNQDEH/EU
Power Supply			Ø, #, V, Hz	1,2,220-240,50	1,2,220-240,50	1,2,220-240,50
Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP
Performance	Capacity (Nominal)	Cooling	kW	4.5	5.6	6.8
			Btu/h	15,400	19,100	23,200
		Heating	kW	5.0	6.3	7.0
			Btu/h	17,100	21,500	23.900
Power	Power Input (Nominal)	Cooling	W	47.0	48.0	51.0
		Heating		47.0	48.0	53.0
	Current Input (Nominal)	Cooling	A	0.27	0.27	0.28
		Heating		0.27	0.27	0.28
	MCA			0.4	0.4	0.4
	MFA			15.0	15.0	15.0
Heat exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion
Fan	Type		-	Crossflow Fan	Crossflow Fan	Crossflow Fan
	Quantity		ea	1	1	1
	Air Flow Rate	H/M/L (UL)	CMM	13.9/12.4/11.2	14.4/12.9/11.2	15.7/14.1/12.9
			l/s	231.7/206.7/186.7	240.0/215.0/186.7	261.7/235.0/215.0
	External Pressure	Min/Std/Max	mmAq	-	-	-
			Pa	-	-	-
Fan motor	Type		-	SSR Feedback	SSR Feedback	SSR Feedback
	Output x n		-	28W x 1	28W x 1	28W x 1
Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection	Flare connection
			Ø, mm	6.35	6.35	9.52
			Ø, inch	1/4"	1/4"	3/8"
	Gas Pipe		Type	Flare connection	Flare connection	Flare connection
			Ø, mm	12.7	12.7	15.88
			Ø, inch	1/2"	1/2"	5/8"
	Drain Pipe		Ø, mm	ID 18 HOSE	ID 18 HOSE	ID 18 HOSE
	Heat insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
Field Wiring	Power Source Wire	Minimum	mm2	1.5	1.5	1.5
	For connection with indoor	Minimum	mm2	0.75	0.75	0.75
		Remark	-	F1, F2	F1, F2	F1, F2
Refrigerant	Type		-	R410A	R410A	R410A
	Control Method		-	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound	Sound Pressure	High/Mid/Low	dB(A)	38/35/33	39/36/33	40/38/35
	Sound Power	Cooling		53	53	55
Dimensions	Net Weight		kg	12.5	12.5	12.5
	Shipping Weight		kg	14.5	14.5	14.5
	Net Dimensions (W×H×D)		mm	1065 x 298 x 243	1065 x 298 x 243	1065 x 298 x 243
	Shipping Dimensions (W×H×D)		mm	1128 x 299 x 378	1128 x 299 x 378	1128 x 299 x 378

NOTE

- 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.
- Select wire size based on the value of MCA

2. Summary Table

BORACAY

Performance Characteristics

Model Code	Net Weight (kg)	Fan Speed	Nominal Capacity			Airflow (CMM)	Sound Pressure (dBA)	Sound Power (dBA)
			Cooling (kW)	Sensible (Kw)	Heating (kW)			
AM015KNTDEH/EU (AM015KNQDEH/EU)	8.0 (8.5)	High	1.5	1.0	1.7	6.2	30	47
		Mid	1.2	0.9	1.6	5.7	28	-
		Low	1.0	0.8	1.5	5.1	25	-
AM022KNTDEH/EU (AM022KNQDEH/EU)	8.0 (8.5)	High	2.2	1.5	2.5	6.6	31	48
		Mid	1.6	1.4	2.3	5.7	28	-
		Low	1.3	1.2	2.2	5.1	25	-
AM028KNTDEH/EU (AM028KNQDEH/EU)	8.5 (9.0)	High	2.8	1.9	3.2	7.0	31	48
		Mid	2.1	1.7	3.0	6.2	29	-
		Low	1.7	1.5	2.8	5.5	26	-
AM036KNTDEH/EU (AM036KNQDEH/EU)	8.5 (9.0)	High	3.6	2.4	4.0	8.5	36	51
		Mid	2.6	2.2	3.8	7.5	33	-
		Low	2.1	1.8	3.5	6.6	29	-
AM045KNTDEH/EU (AM045KNQDEH/EU)	12.0 (12.5)	High	4.5	3.1	5.0	13.9	38	53
		Mid	3.2	2.7	4.7	12.4	35	-
		Low	2.6	2.1	4.5	11.2	33	-
AM056KNTDEH/EU (AM056KNQDEH/EU)	12.0 (12.5)	High	5.6	3.8	6.3	14.4	39	53
		Mid	4.0	3.3	6.0	12.9	36	-
		Low	3.1	2.7	5.6	11.2	33	-
AM071KNTDEH/EU (AM071KNQDEH/EU)	12.0 (12.5)	High	6.8	4.6	7.0	15.7	40	55
		Mid	4.7	4.0	6.6	14.1	38	-
		Low	3.7	2.9	6.3	12.9	35	-

Electrical Characteristics

Model Code	Power Supply (Ø, #, V, Hz)	Power Input (W) (C / H)	Current Input (A) (C / H)	MCA (A)	MFA (A)	FLA (A)
AM015KN*DEH/EU	1Ø/220~240V/50Hz	32/34	0.20/0.20	0.3	15	0.22
AM022KN*DEH/EU	1Ø/220~240V/50Hz	32/35	0.20/0.20	0.3	15	0.22
AM028KN*DEH/EU	1Ø/220~240V/50Hz	38/39	0.22/0.22	0.4	15	0.25
AM036KN*DEH/EU	1Ø/220~240V/50Hz	42/42	0.23/0.23	0.4	15	0.25
AM045KN*DEH/EU	1Ø/220~240V/50Hz	47/47	0.27/0.27	0.4	15	0.30
AM056KN*DEH/EU	1Ø/220~240V/50Hz	48/48	0.27/0.27	0.4	15	0.30
AM071KN*DEH/EU	1Ø/220~240V/50Hz	51/53	0.28/0.28	0.4	15	0.30

NOTE

- MCA : Minimum circuit amperes
- MFA : Maximum fuse amperes
- Select wire size based on the value of MCA

3. Capacity Table

BORACAY

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	1.10	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

3. Capacity Table

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
3.60	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
	25	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
	27	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
	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

3. Capacity Table

BORACAY

Heating

TC: Total Capacity

Model	Outdoor temperature (°C)		Indoor temperature (°C, WB)				
			16.0	18.0	20.0	22.0	24.0
			TC	TC	TC	TC	TC
	DB	WB	kW	kW	kW	kW	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

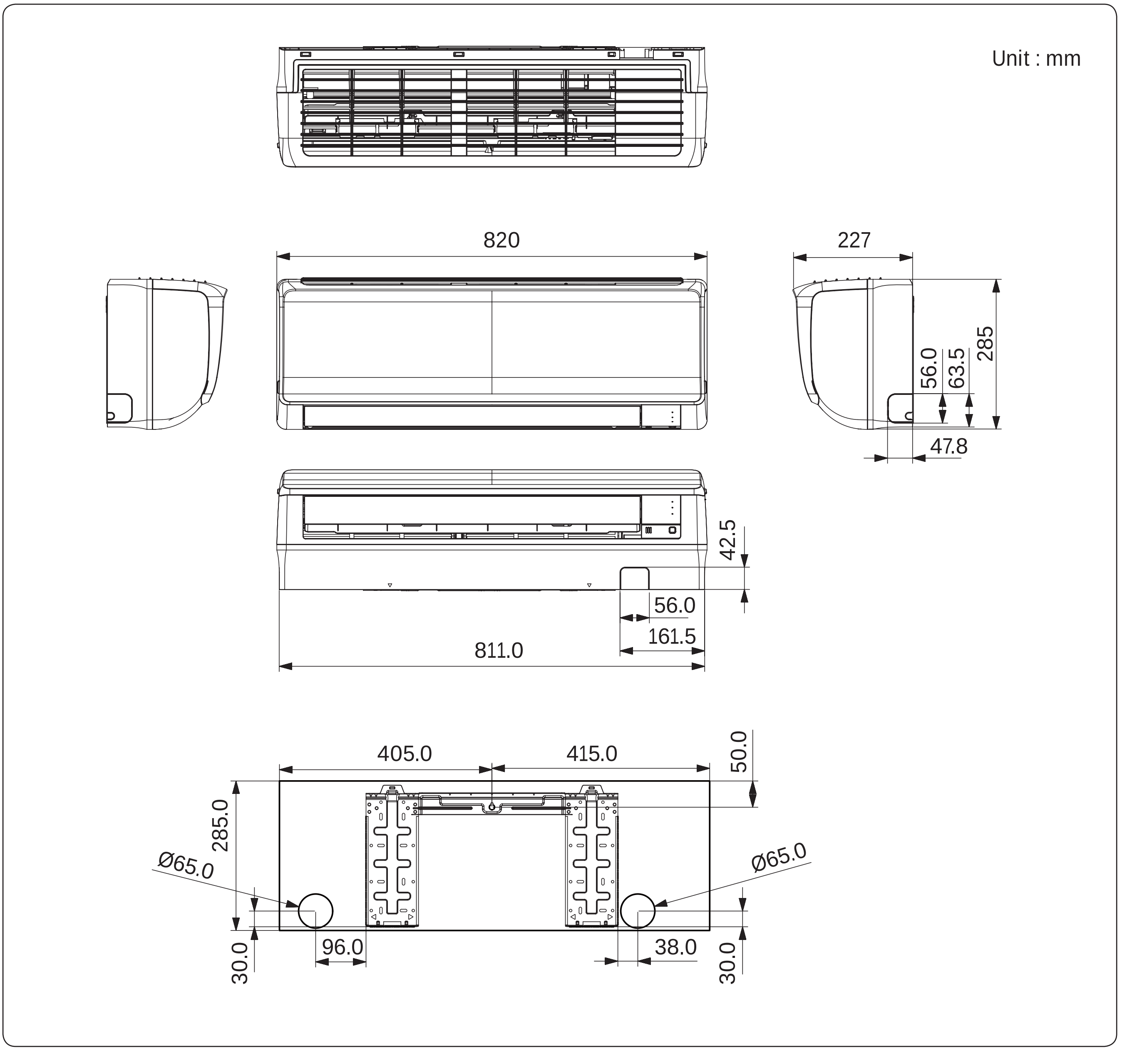
3. Capacity Table

Model	Outdoor temperature (°C)		Indoor temperature (°C, WB)				
			16.0	18.0	20.0	22.0	24.0
			TC	TC	TC	TC	TC
	DB	WB	kW	kW	kW	kW	kW
3.60	-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	3.02	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
	15	14	5.79	5.40	5.00	4.60	4.21
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
	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

4. Dimensional Drawing

BORACAY

AM015/022/028/036KN*D*****

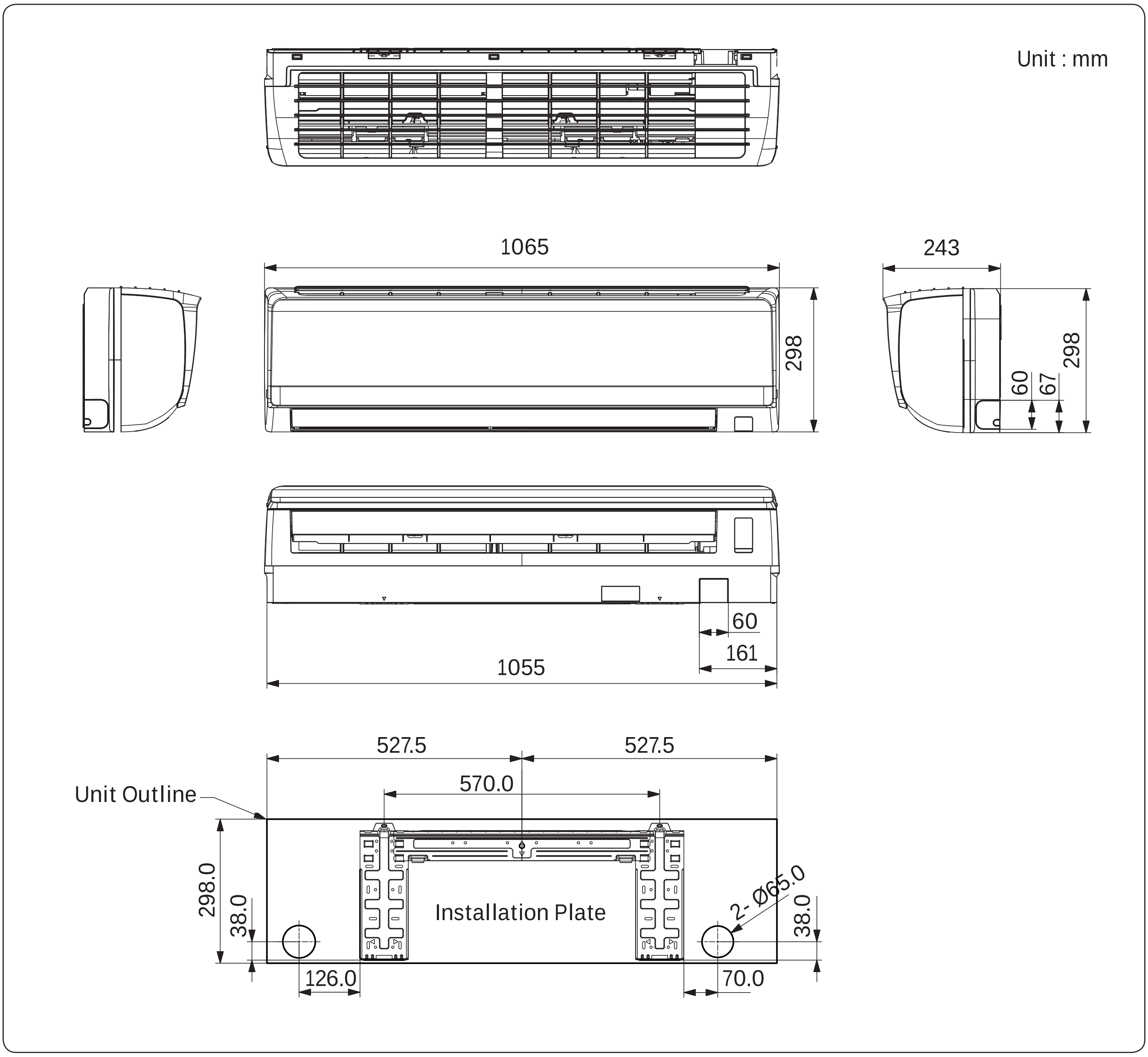


No.	Name	Description
1	Liquid pipe connection	Ø6.35 (Ø1/4)
2	Gas pipe connection	Ø12.7 (Ø1/2)
3	Drain pipe connection	ID 18 HOSE
4	Power & Communication wiring conduit	

4. Dimensional Drawing

BORACAY

AM045/056/071KN*D****

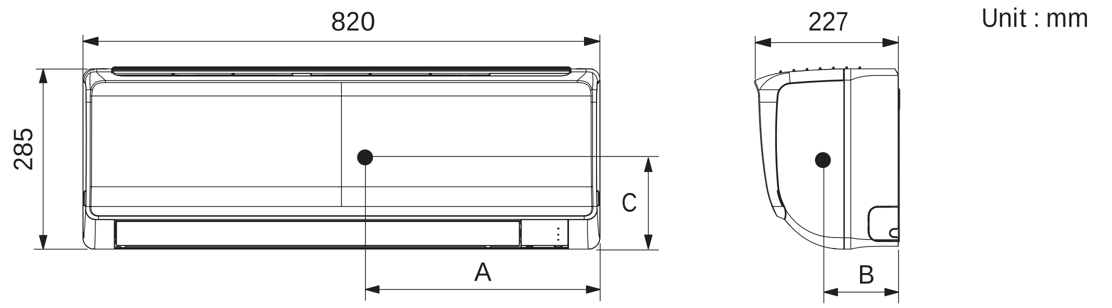


No.	Name	Description	
		045 / 056	071
1	Liquid pipe connection	Ø6.35 (Ø1/4)	Ø9.52 (Ø3/8)
2	Gas pipe connection	Ø12.7 (Ø1/2)	Ø15.88 (Ø5/8)
3	Drain pipe connection	ID 18 HOSE	
4	Power & Communication wiring conduit		

5. Center of Gravity

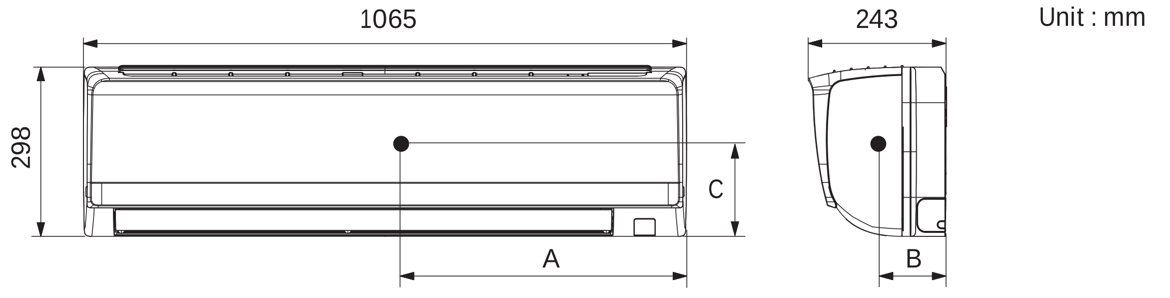
BORACAY

AM015/022/028/036KN*D*****



A	B	C
375	105	155

AM045/056/071KN*D*****

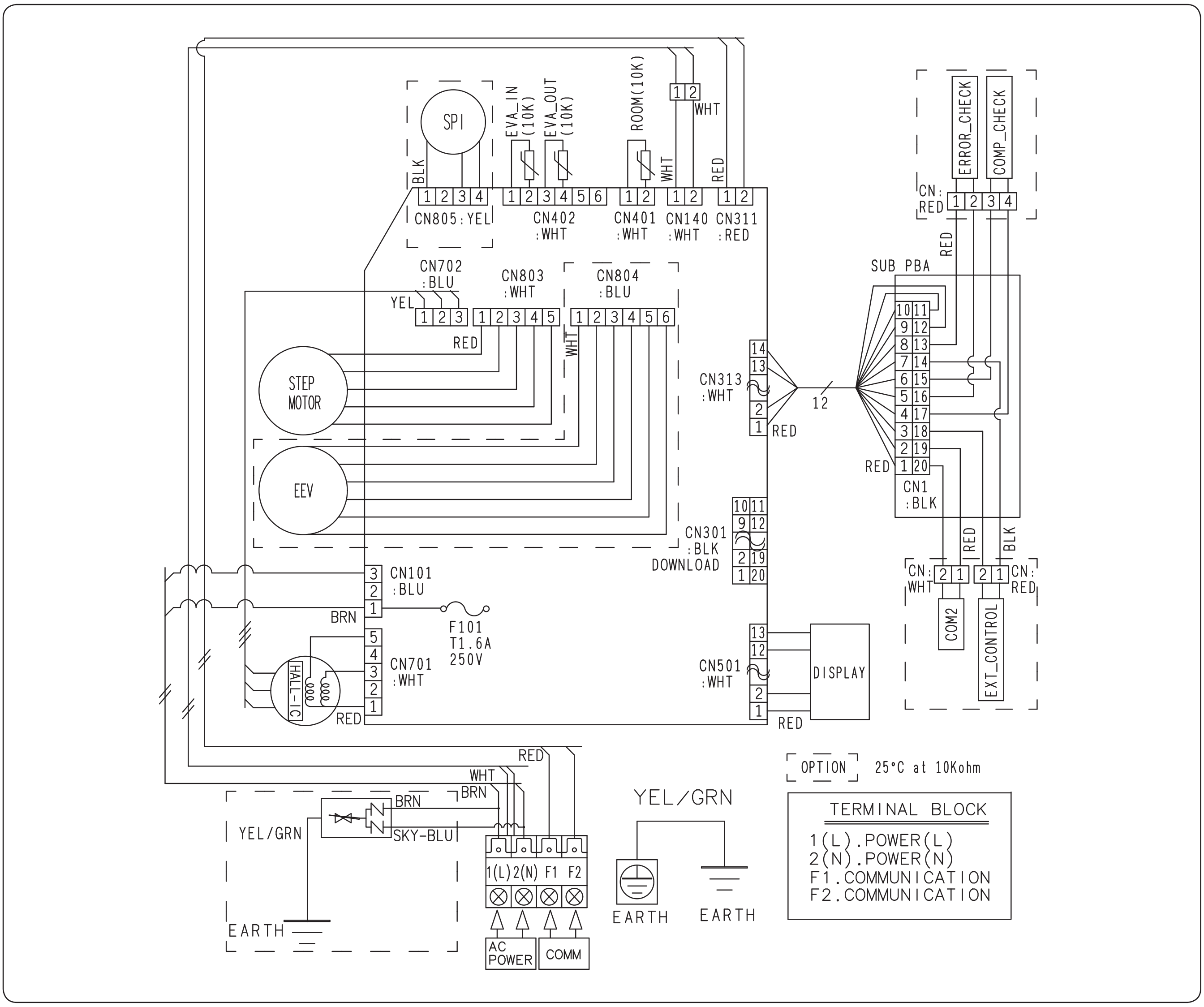


A	B	C
460	120	160

6. Electrical Wiring Diagram

BORACAY

AM***KN*D*****



SUB PBA	Printed Circuit Board(SUB)	SPI	S-Plasma ion	EVA-OUT(10K)	Thermistor EVA OUT(10K)
[HALL IC]	Motor For FAN	ROOM(10K)	Thermistor ROOM In(10K)	EVA-IN(10K)	Thermistor EVA IN(10K)
EEV	electronic expansion valve				

NOTE

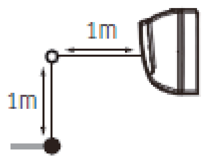
- This wiring diagram applies only to the Indoor unit.
- Symbols show as follow :
  BLK: black, RED: red, BLU: blue, WHT: white, YEL: yellow, BRN: brown, sky: sky blue, GRN: green
- For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remote controller transmission F3-F4.
- EARTH EARTH Protective earth(SCREW)

7. Sound Data

BORACAY

Sound Pressure Level

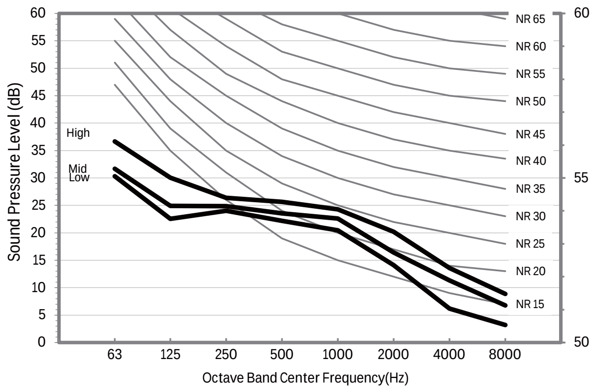
Unit: dB(A)



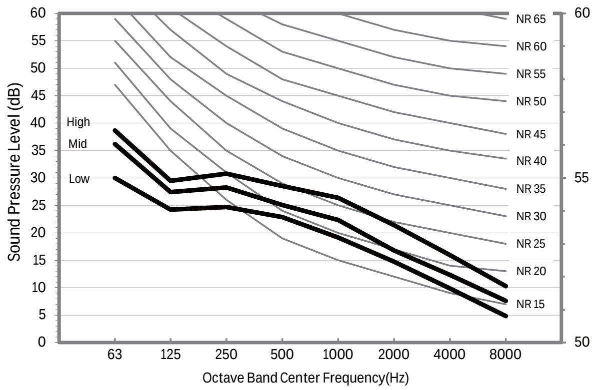
MODEL	Hi	MID	LOW
AM015KN*D*****	30	28	25
AM022KN*D*****	31	28	25
AM028KN*D*****	31	29	26
AM036KN*D*****	36	33	29

NR Curve

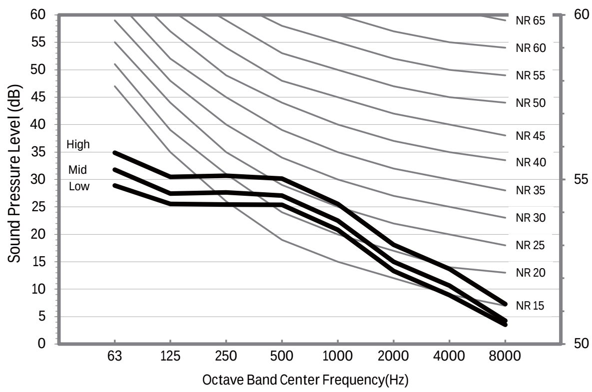
1) AM015KN*D*****



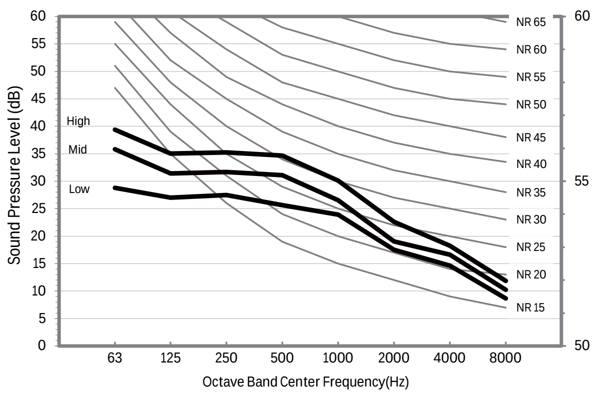
2) AM022KN*D*****



3) AM028KN*D*****



4) AM036KN*D*****



NOTE

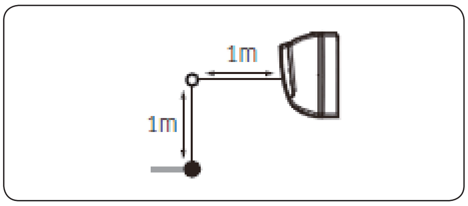
- Specifications may be subject to change without prior notice
- Sound Pressure Level
  - Sound Pressure level is obtained in an anechoic room.
  - Sound Pressure level is a relative value, depending on the distance and acoustic environment.
  - Sound Pressure level may differ depending on operation condition.
  - dBA = A-weighted sound power level.
  - Reference acoustic pressure 0 dB = 20μPa

7. Sound Data

BORACAY

Sound Pressure Level

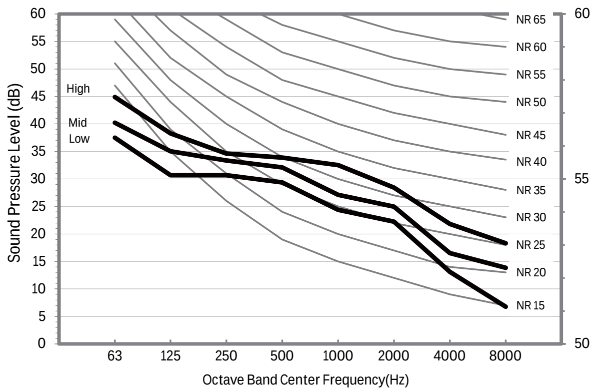
Unit: dB(A)



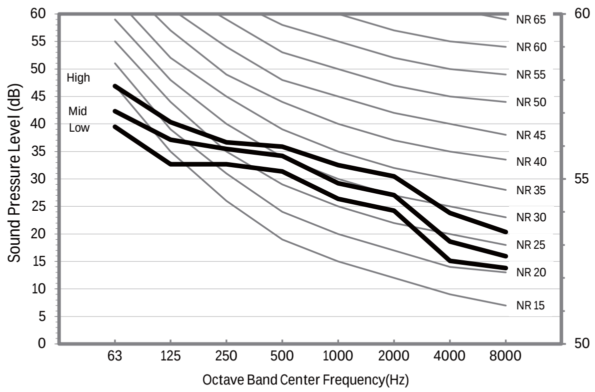
MODEL	Hi	MID	LOW
AM045KN*D*****	38	35	33
AM056KN*D*****	39	36	33
AM071KN*D*****	40	38	35

NR Curve

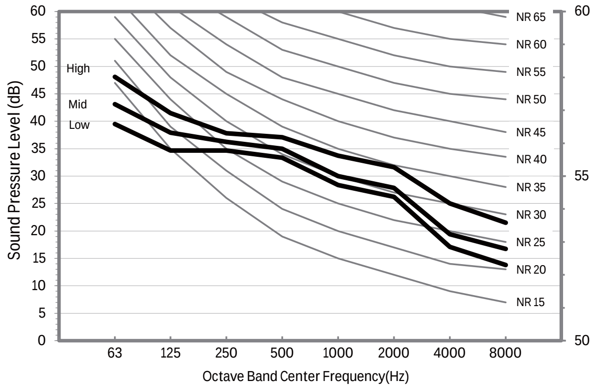
5) AM045KN*D*****



6) AM056KN*D*****



7) AM071KN*D*****



NOTE

- Specifications may be subject to change without prior notice
- Sound Pressure Level
  - Sound Pressure level is obtained in an anechoic room.
  - Sound Pressure level is a relative value, depending on the distance and acoustic environment.
  - Sound Pressure level may differ depending on operation condition.
  - dBA = A-weighted sound power level.
  - Reference acoustic pressure 0 dB = 20µPa

7. Sound Data

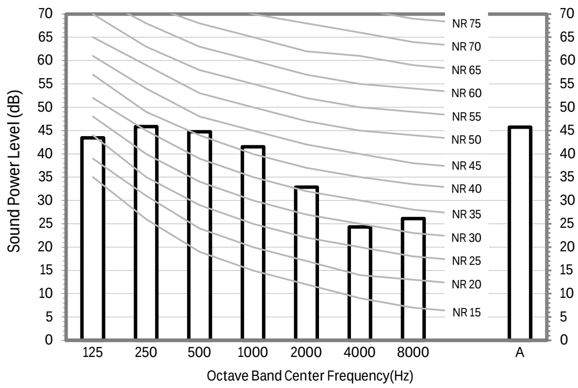
BORACAY

Sound Power Level

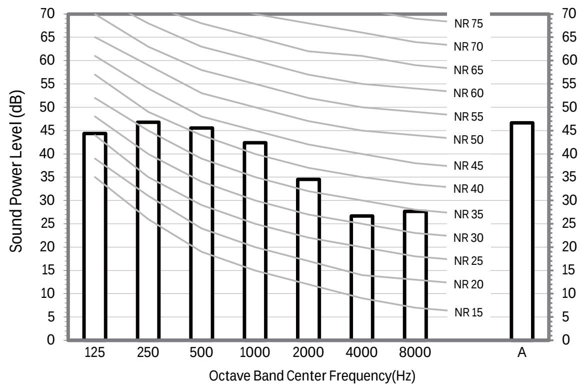
Unit: dB(A)

MODEL	Power
AM015KN*D*****	47
AM022KN*D*****	48
AM028KN*D*****	48
AM036KN*D*****	51

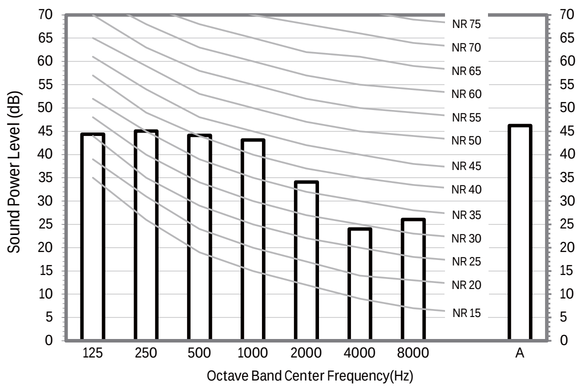
1) AM015KN*D*****



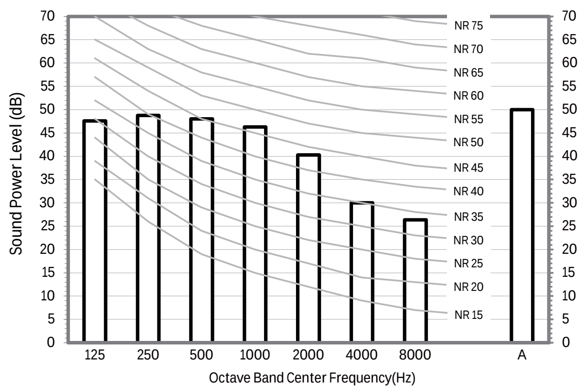
2) AM022KN*D*****



3) AM028KN*D*****



4) AM036KN*D*****



NOTE

- Specifications may be subject to change without prior notice.
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power: 1pW.
  - Measured according to ISO 3741.

7. Sound Data

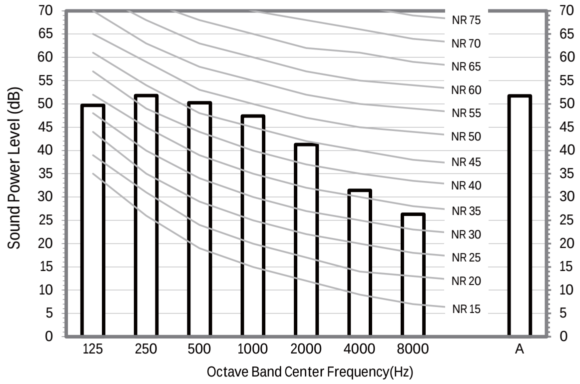
BORACAY

Sound Power Level

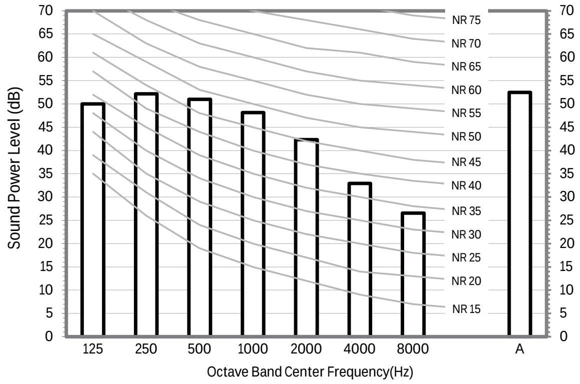
Unit: dB(A)

MODEL	Power
AM045KN*D*****	53
AM056KN*D*****	53
AM071KN*D*****	55

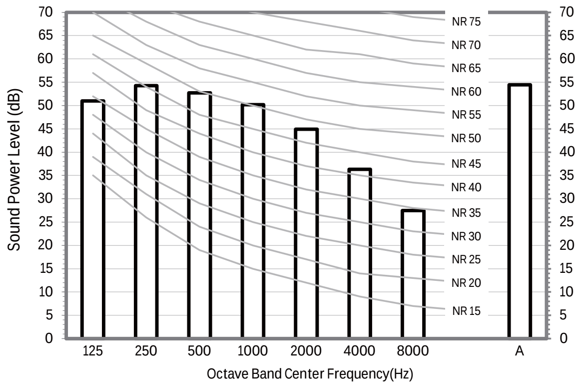
5) AM045KN*D*****



6) AM056KN*D*****



7) AM071KN*D*****



NOTE

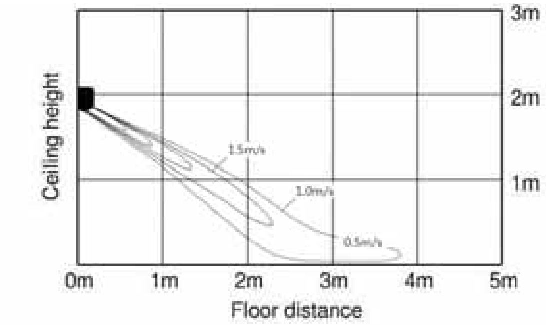
- Specifications may be subject to change without prior notice.
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power: 1pW.
  - Measured according to ISO 3741.

8. Temperature and Air Flow Distribution

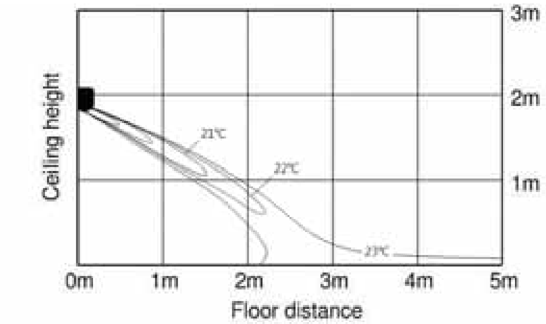
BORACAY

AM015KN*D***** Discharge angle : 26˚

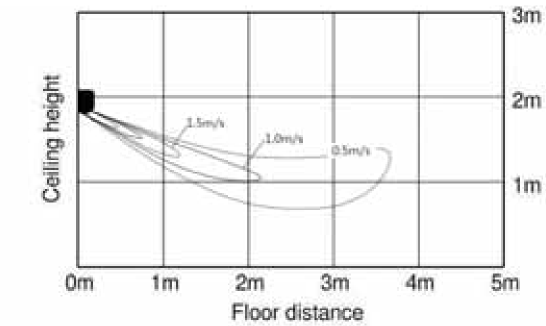
1) Cooling air velocity distribution



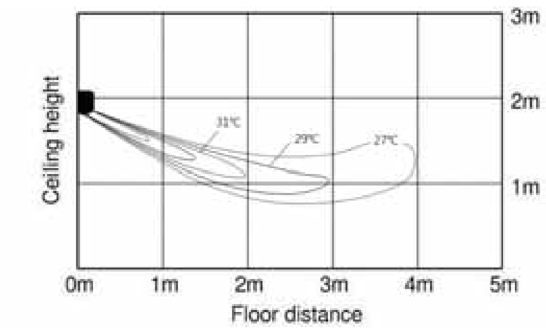
2) Cooling temperature distribution



3) Heating air velocity distribution



4) Heating temperature distribution

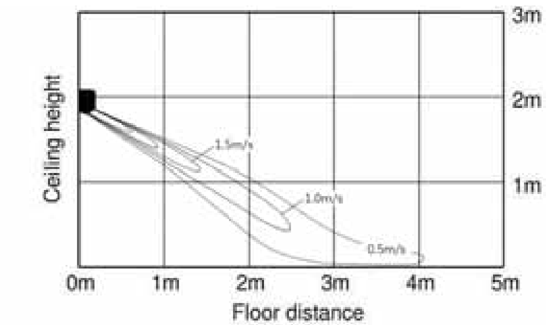


8. Temperature and Air Flow Distribution

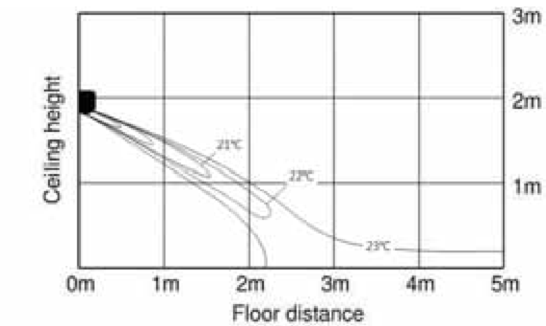
BORACAY

AM022KN*D***** Discharge angle : 26˚

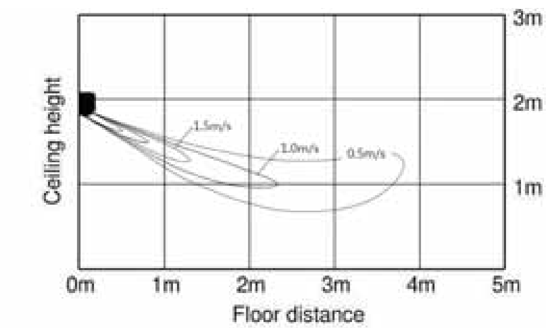
1) Cooling air velocity distribution



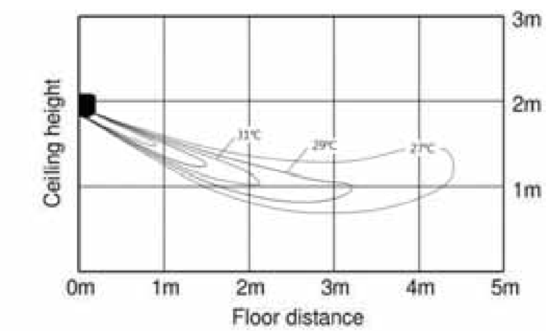
2) Cooling temperature distribution



3) Heating air velocity distribution



4) Heating temperature distribution

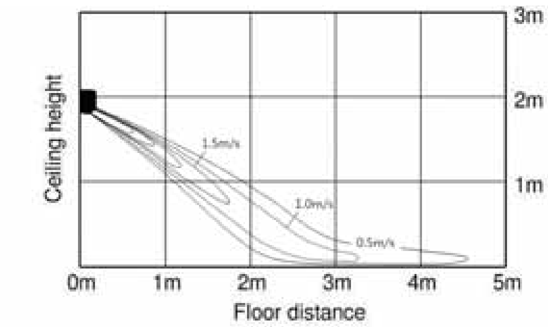


8. Temperature and Air Flow Distribution

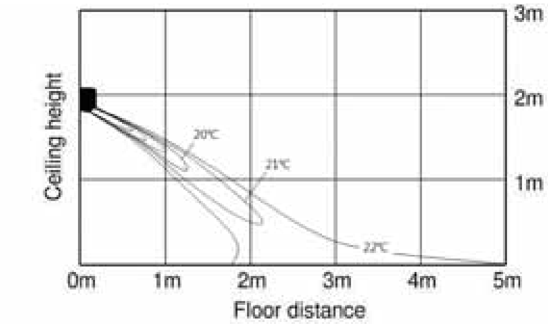
BORACAY

AM028KN*D***** Discharge angle : 26˚

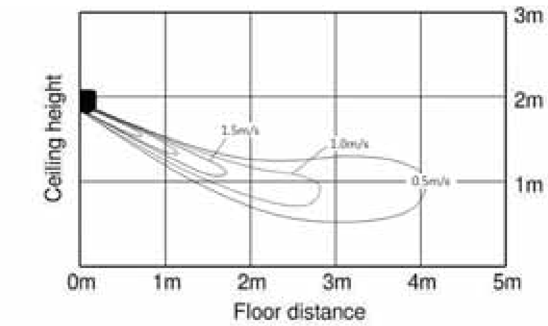
1) Cooling air velocity distribution



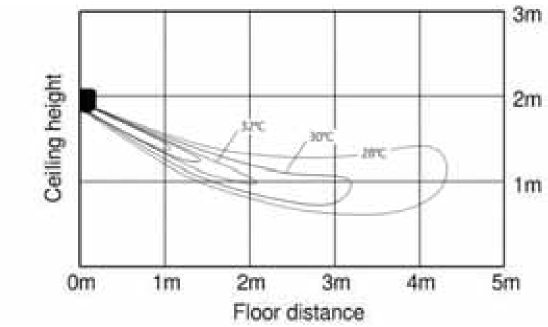
2) Cooling temperature distribution



3) Heating air velocity distribution



4) Heating temperature distribution



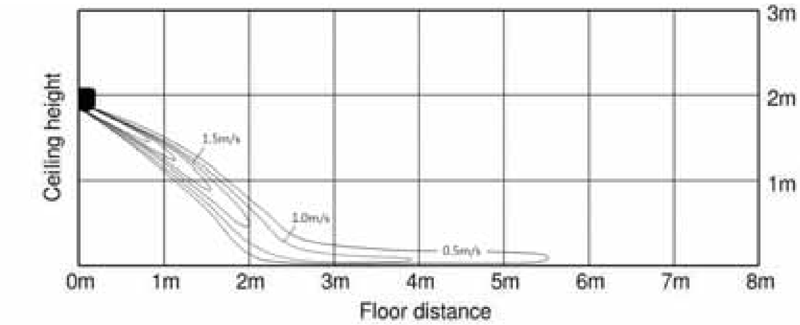
8. Temperature and Air Flow Distribution

BORACAY

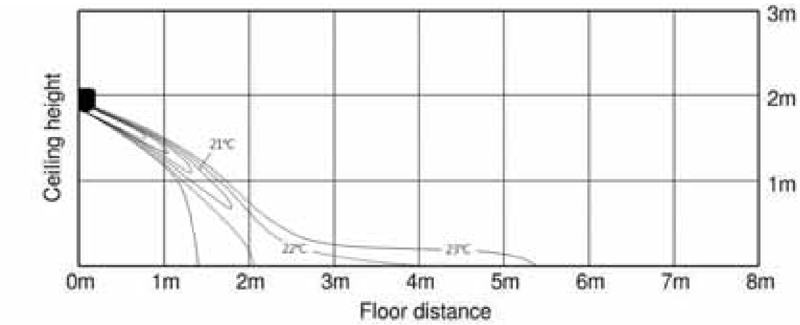
AM036KN*D*****

Discharge angle : 26˚

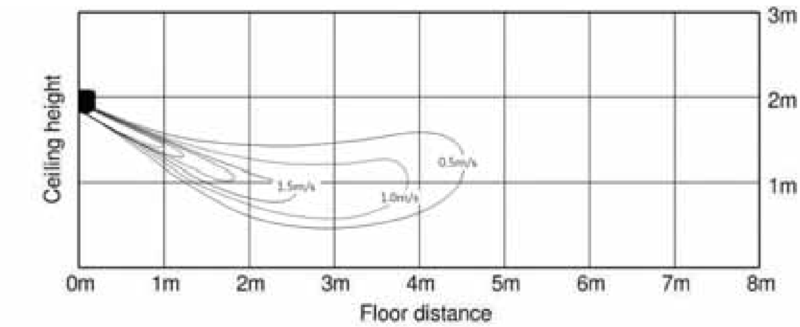
1) Cooling air velocity distribution



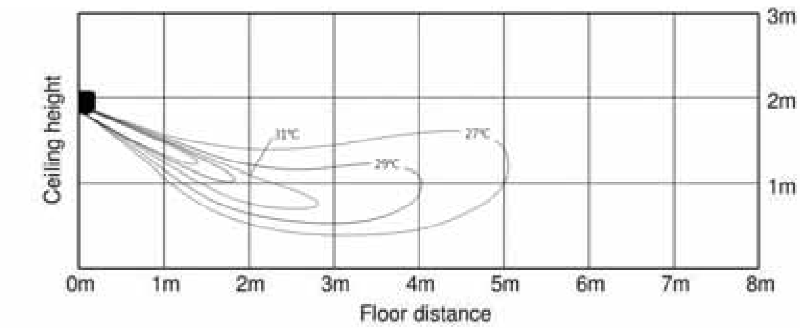
2) Cooling temperature distribution



3) Heating air velocity distribution



4) Heating temperature distribution



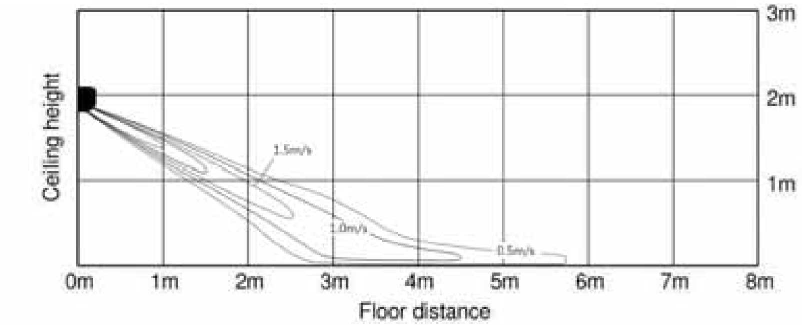
8. Temperature and Air Flow Distribution

BORACAY

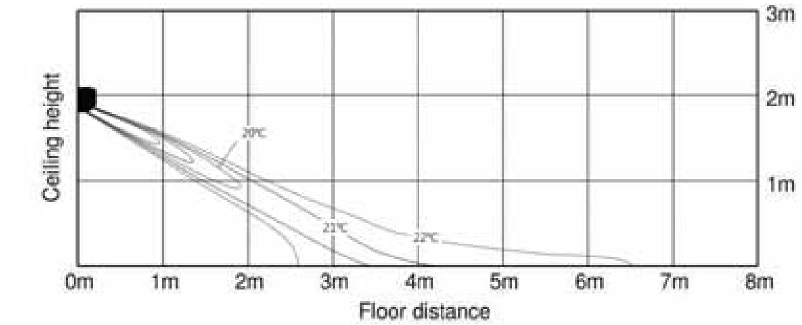
AM045KN*D*****

Discharge angle : 26˚

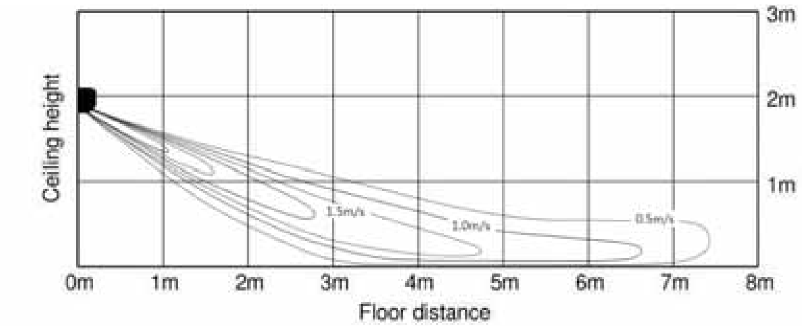
1) Cooling air velocity distribution



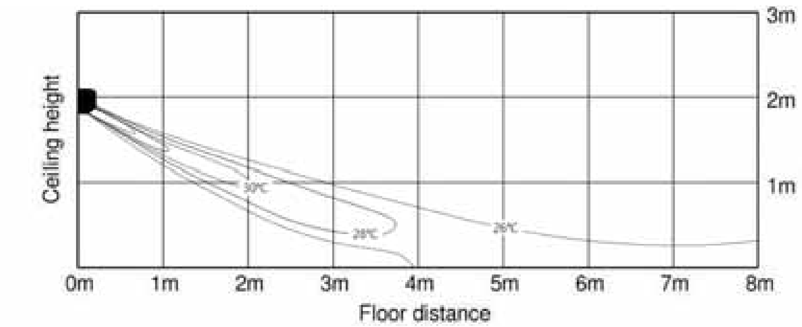
2) Cooling temperature distribution



3) Heating air velocity distribution



4) Heating temperature distribution

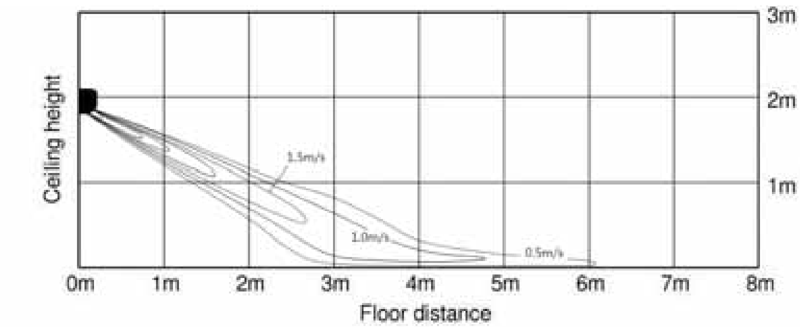


8. Temperature and Air Flow Distribution

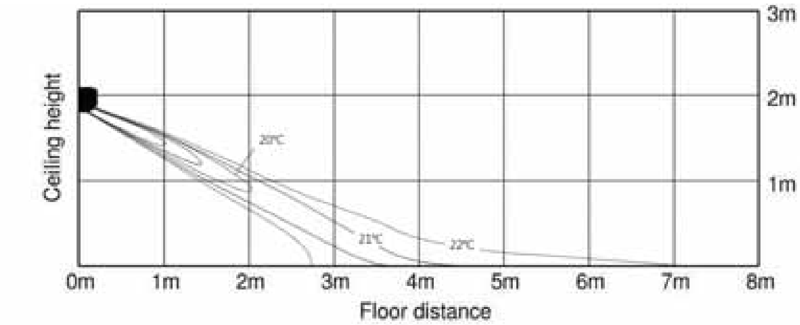
BORACAY

AM056KN*D***** Discharge angle : 26˚

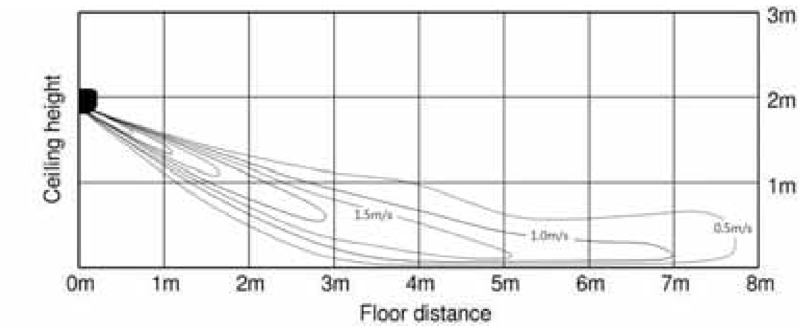
1) Cooling air velocity distribution



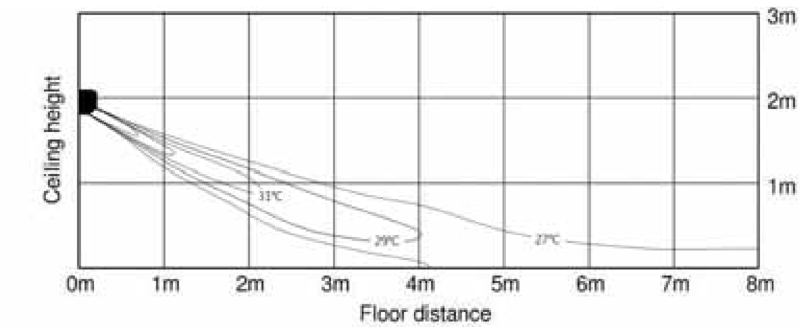
2) Cooling temperature distribution



3) Heating air velocity distribution



4) Heating temperature distribution

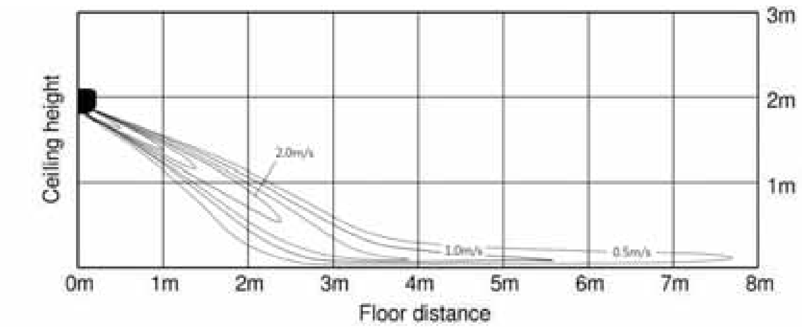


8. Temperature and Air Flow Distribution

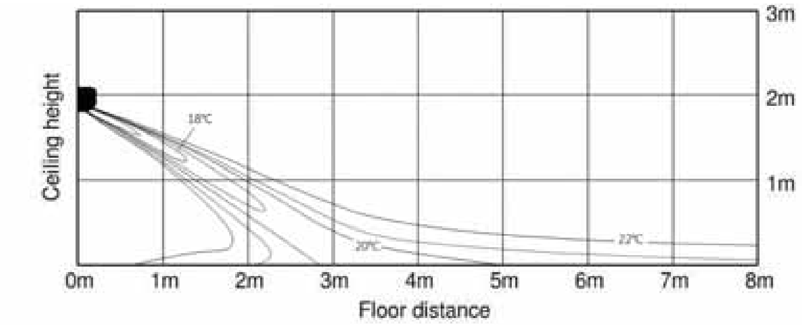
BORACAY

AM071KN*D*** Discharge angle : 26˚

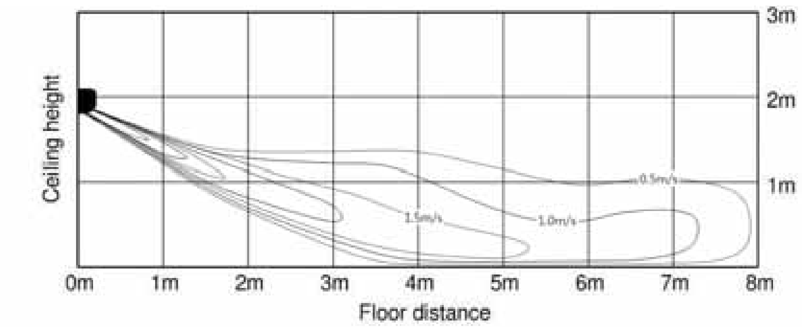
1) Cooling air velocity distribution



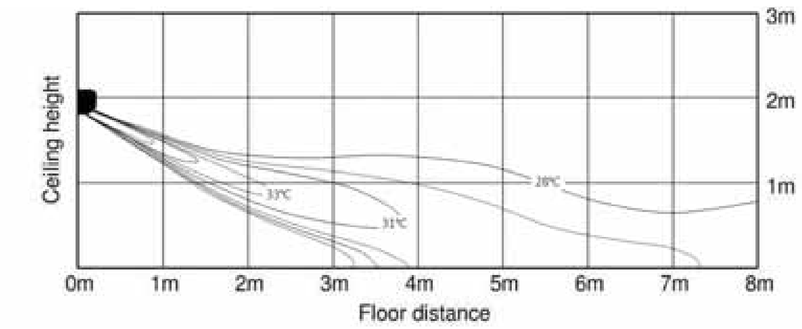
2) Cooling temperature distribution



3) Heating air velocity distribution



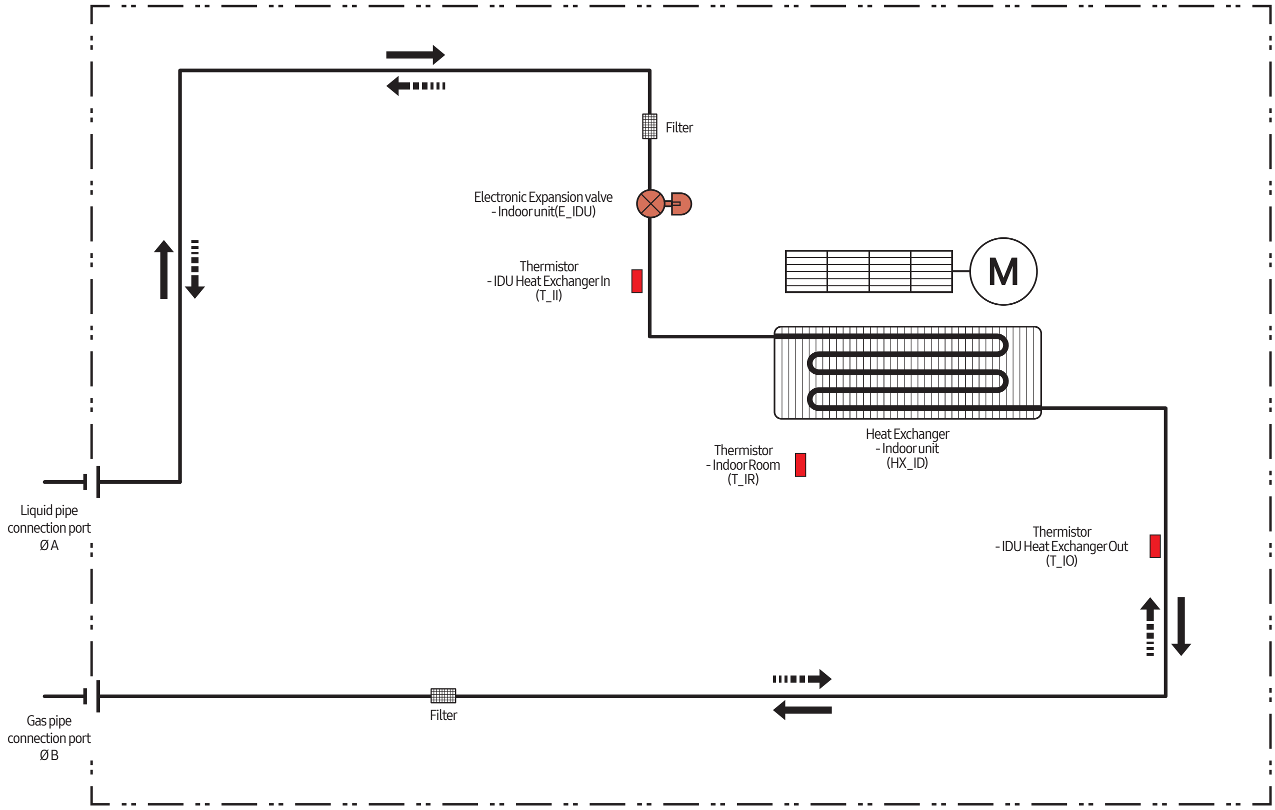
4) Heating temperature distribution



9. Piping Diagram

BORACAY

EEV included Model



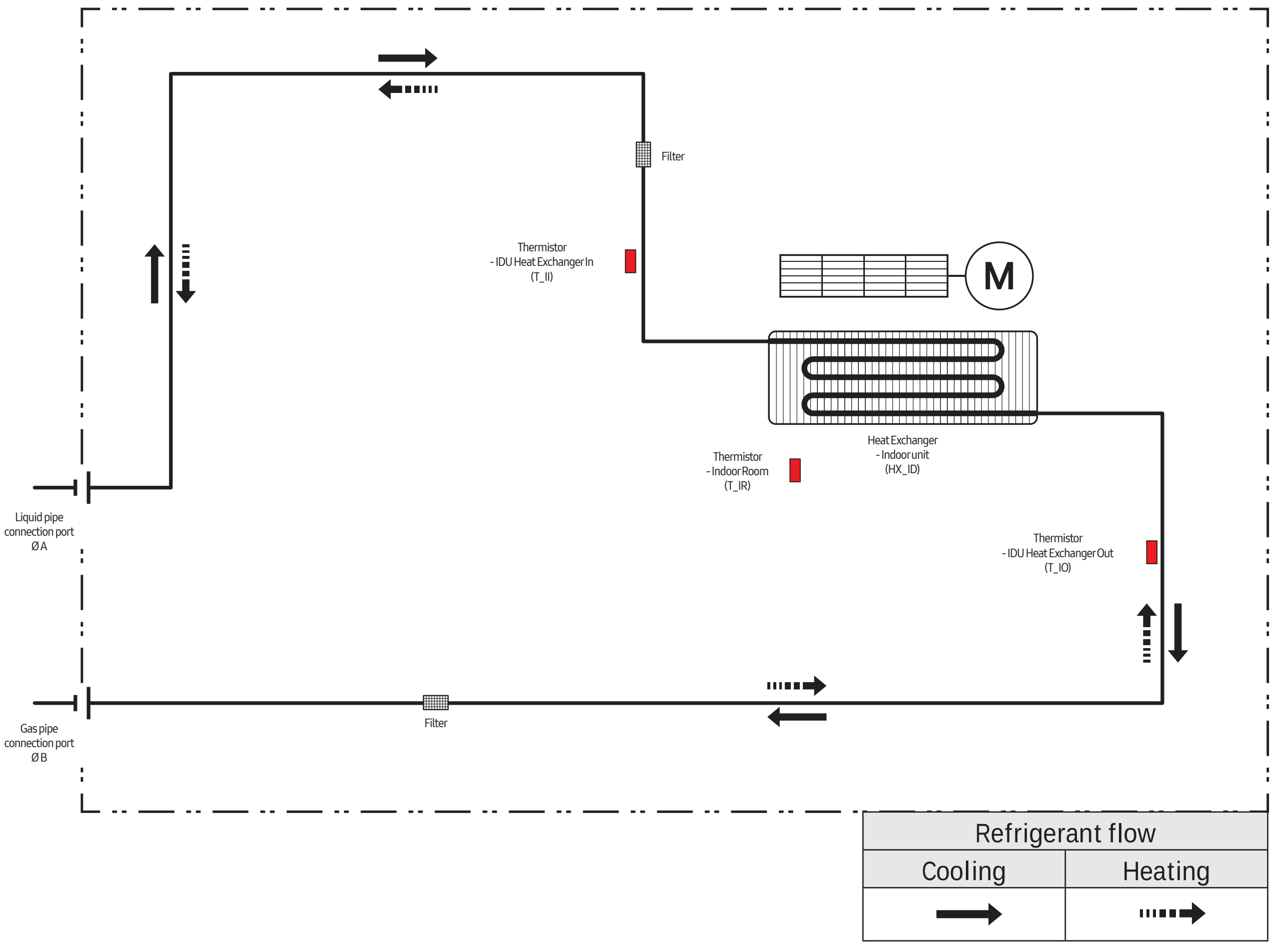
Refrigerant flow	
Cooling	Heating
→ (solid arrow)	→ (dotted arrow)

MODEL	A	B
AM015KNQD*****	6.35	12.7
AM022KNQD*****		
AM028KNQD*****		
AM036KNQD*****		
AM045KNQD*****		
AM056KNQD*****		
AM071KNQD*****	9.52	15.88

9. Piping Diagram

BORACAY

EEV not included Model



MODEL	A	B
AM015KNTD*****	6.35	12.7
AM022KNTD*****		
AM028KNTD*****		
AM036KNTD*****		
AM045KNTD*****		
AM056KNTD*****		
AM071KNTD*****	9.52	15.88

Ceiling

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.

* Heat Exchanger type : Fin & Tube (Fin : Al, Tube : Cu)

2 Capacity table

Ceiling

1) Cooling

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

Model	Outdoor temperature (℃, DB)	Indoor temperature (℃, WB)													
		20 (℃, DB) 14 (℃, WB)		23 (℃, DB) 16 (℃, WB)		26 (℃, DB) 18 (℃, WB)		27 (℃, DB) 19 (℃, WB)		28 (℃, DB) 20 (℃, WB)		30 (℃, DB) 22 (℃, WB)		32 (℃, DB) 24 (℃, 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

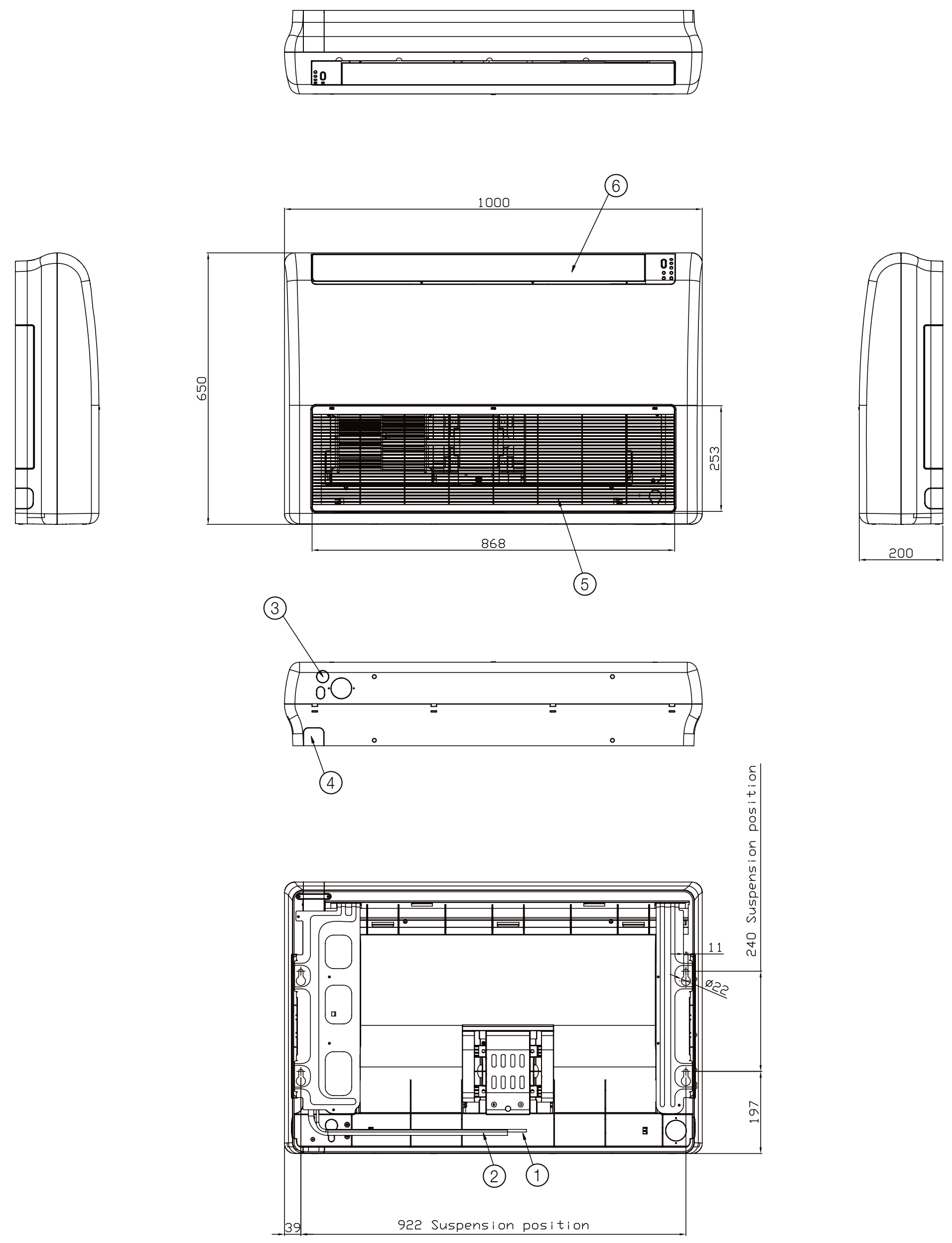
TC : Total Capacity(kW)

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

3 Dimensional drawing

Ceiling

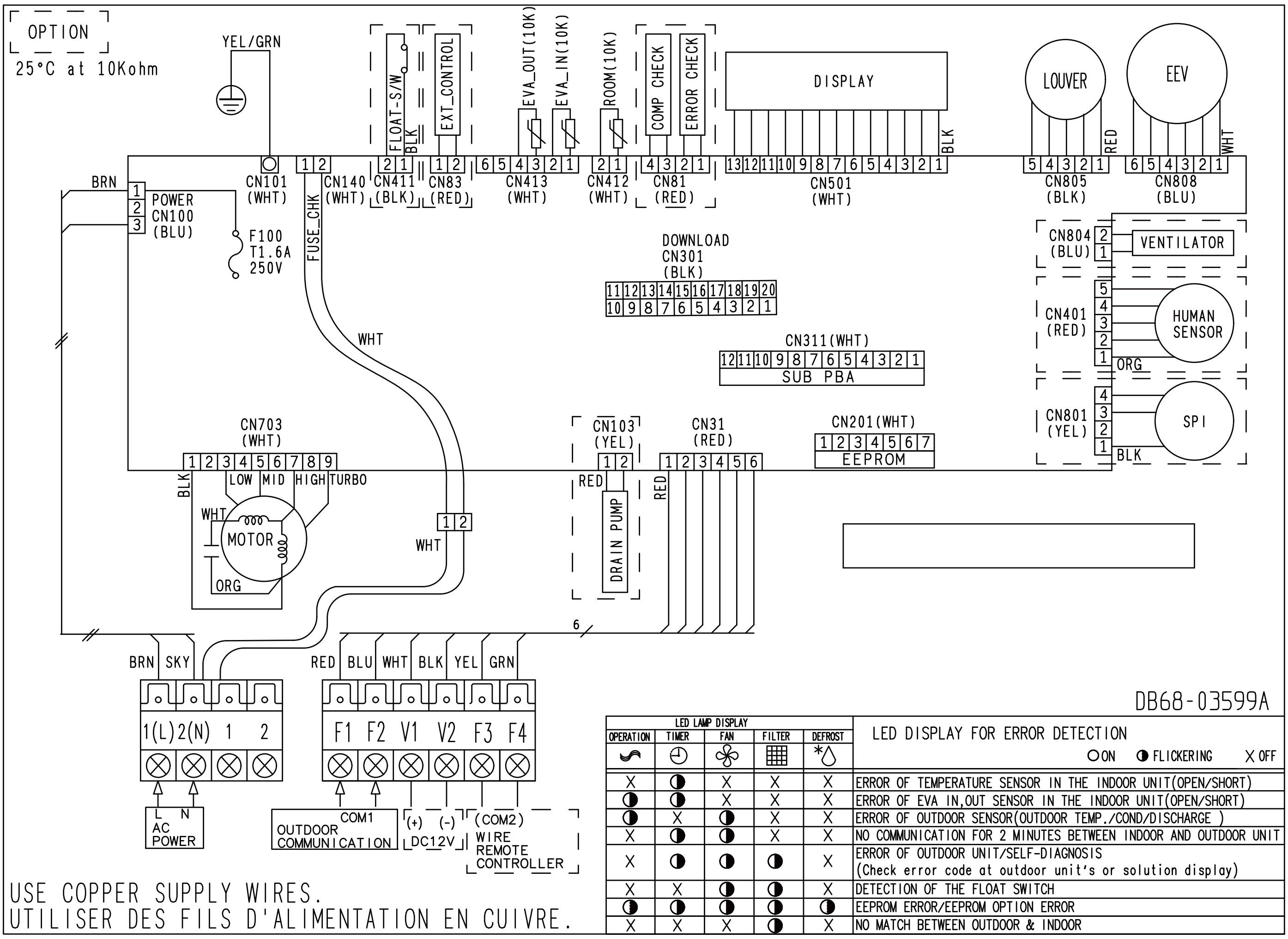
Unit:mm



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	-	

Ceiling

AM056/071FNCDEH/EU



LED DISPLAY FOR ERROR DETECTION

○ ON ◑ FLICKERING X OFF

LED LAMP DISPLAY					
OPERATION	TIMER	FAN	FILTER	DEFROST	
X	◑	X	X	X	ERROR OF TEMPERATURE SENSOR IN THE INDOOR UNIT(OPEN/SHORT)
◑	◑	X	X	X	ERROR OF EVA IN,OUT SENSOR IN THE INDOOR UNIT(OPEN/SHORT)
◑	X	◑	X	X	ERROR OF OUTDOOR SENSOR(OUTDOOR TEMP./COND/DISCHARGE)
X	◑	◑	X	X	NO COMMUNICATION FOR 2 MINUTES BETWEEN INDOOR AND OUTDOOR UNIT
X	◑	◑	◑	X	ERROR OF OUTDOOR UNIT/SELF-DIAGNOSIS (Check error code at outdoor unit's or solution display)
X	X	◑	◑	X	DETECTION OF THE FLOAT SWITCH
◑	◑	◑	◑	◑	EEPROM ERROR/EEPROM OPTION ERROR
X	X	X	◑	X	NO MATCH BETWEEN OUTDOOR & INDOOR

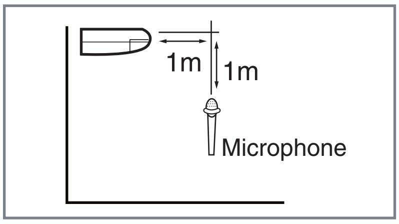
NOTE

1. This wiring diagram applies only to the indoor unit.
2. Symbols show as follow;
   BLK : black, RED : red, BLU : blue, WHT:white, YEL : yellow, BRN : brown, SKY : sky-blue, GRN : green
3. For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remotecontroller transmission F3-F4.
4. ⏚ : Protective earth(screw), ☐☐☐☐ : Connector, n : The wire quantity

5 Sound pressure level

Ceiling

1) Operation sound level



Unit : dB(A)

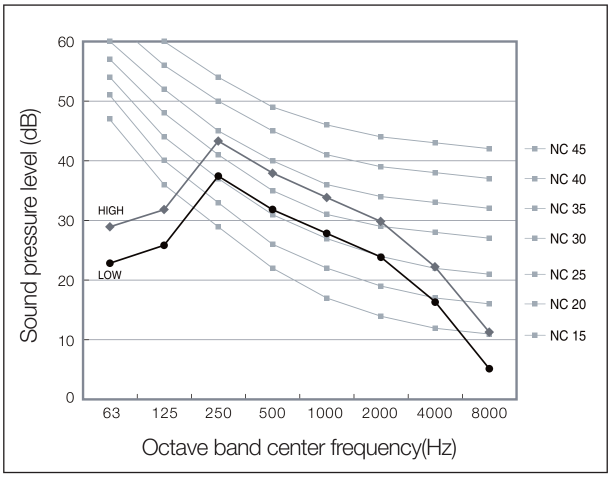
Model	High	Low
AM056FNCDEH✳✳✳	40	34
AM071FNCDEH✳✳✳	44	40

Note

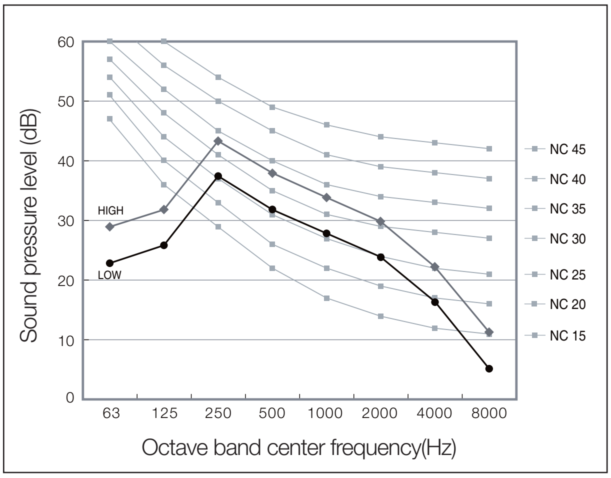
Specifications may be subject to change without prior notice.
Sound pressure level is obtained in an anechoic room.
Sound pressure level is a relative value, depending on the distance and acoustic environment.
Sound pressure level may differ depending on operation condition.
dBA = A-weighted sound pressure level
Reference acoustic pressure 0 dB= 20 uPa

2) NC curves

(1) AM056FNCDEH✳✳✳



(2) AM071FNCDEH✳✳✳

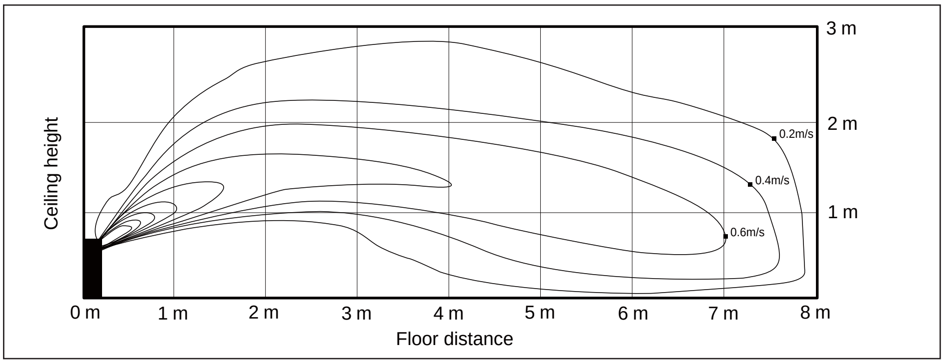


Ceiling

AM071FNCDEH/EU (Floor installation)

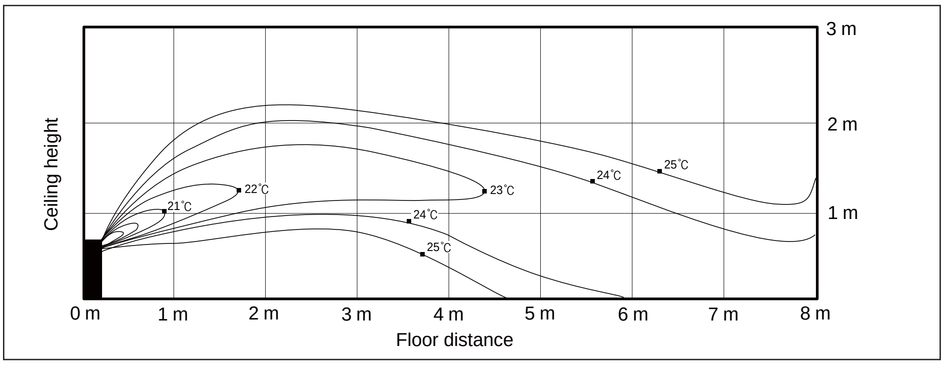
(1) Cooling air velocity distribution

Discharge angle : 36º



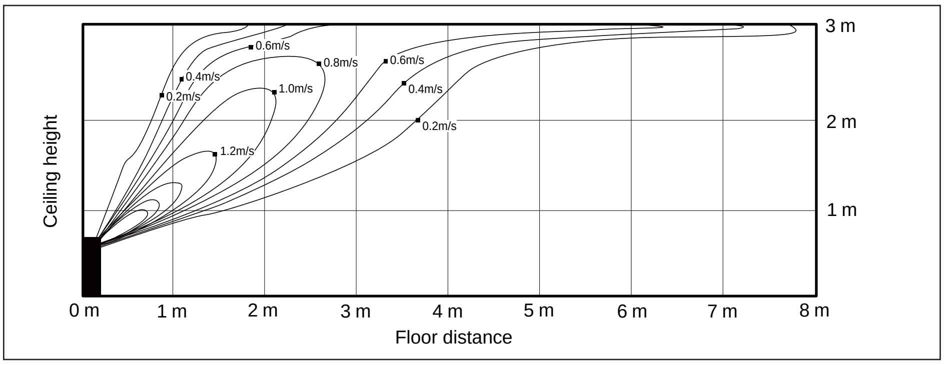
(2) Cooling temperature distribution

Discharge angle : 36º



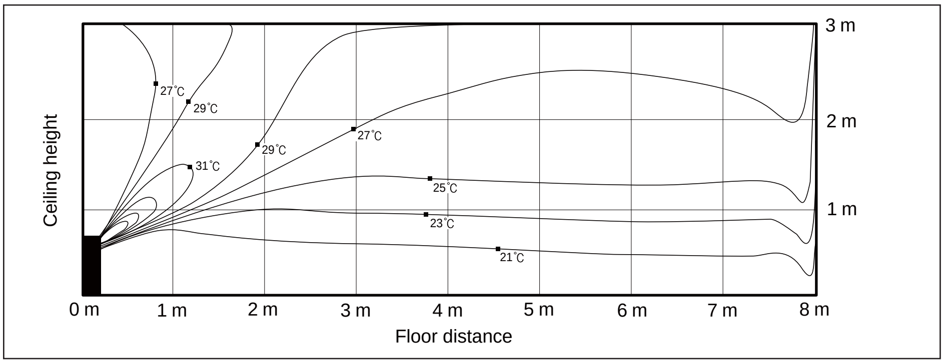
(3) Heating air velocity distribution

Discharge angle : 54º



(4) Heating temperature distribution

Discharge angle : 54º



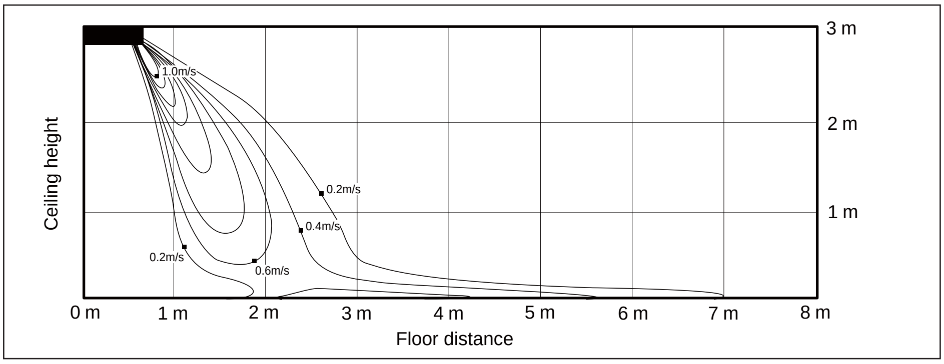
Temperature and air flow distribution

Ceiling

AM071FNCDEH/EU (Ceiling installation)

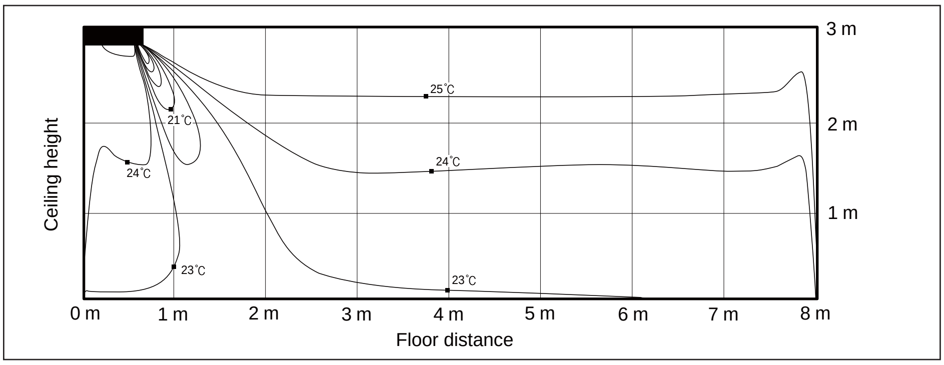
(1) Cooling air velocity distribution

Discharge angle : 36º



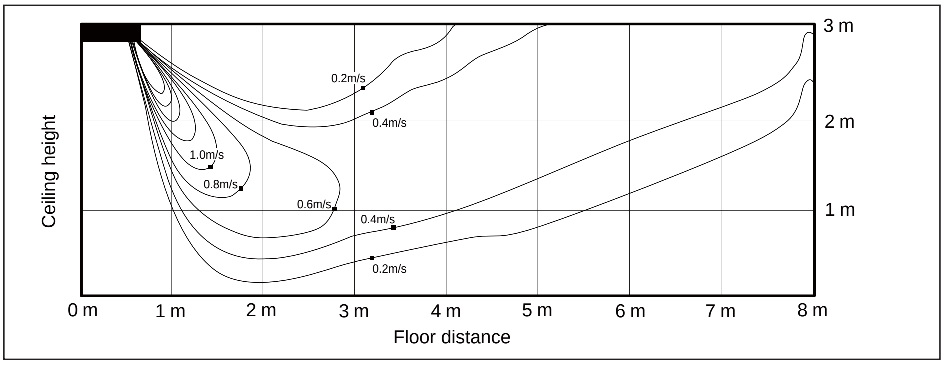
(2) Cooling temperature distribution

Discharge angle : 36º



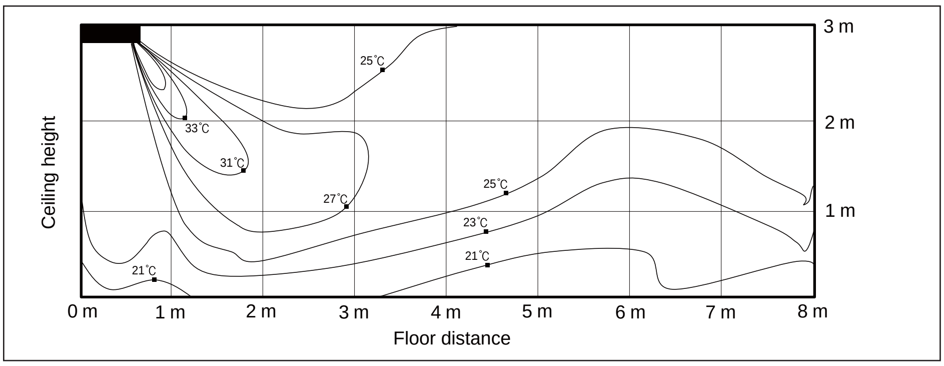
(3) Heating air velocity distribution

Discharge angle : 54º



(4) Heating temperature distribution

Discharge angle : 54º



Big Ceiling

1 Specifications

Big Ceiling

Type				Ceiling	Ceiling
Model				AM112JNCDKH/EU	AM140JNCDKH/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 / 41 / 37	46 / 43 / 38
	Power	Cooling		61	63
Dimension	Net Weight		kg	33.5	42.5
	Shipping Weight		kg	39.5	48.5
	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.
* Heat Exchanger type : Fin & Tube (Fin : Al, Tube : Cu)

2 Capacity table

Big Ceiling

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity

Model	Outdoor temperature (ºC, DB)	Indoor temperature (ºC, 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
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 (ºC)		Indoor temperature (ºC, DB)				
			16.0	18.0	20.0	22.0	24.0
			TC	TC	TC	TC	TC
	DB	WB	kW	kW	kW	kW	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

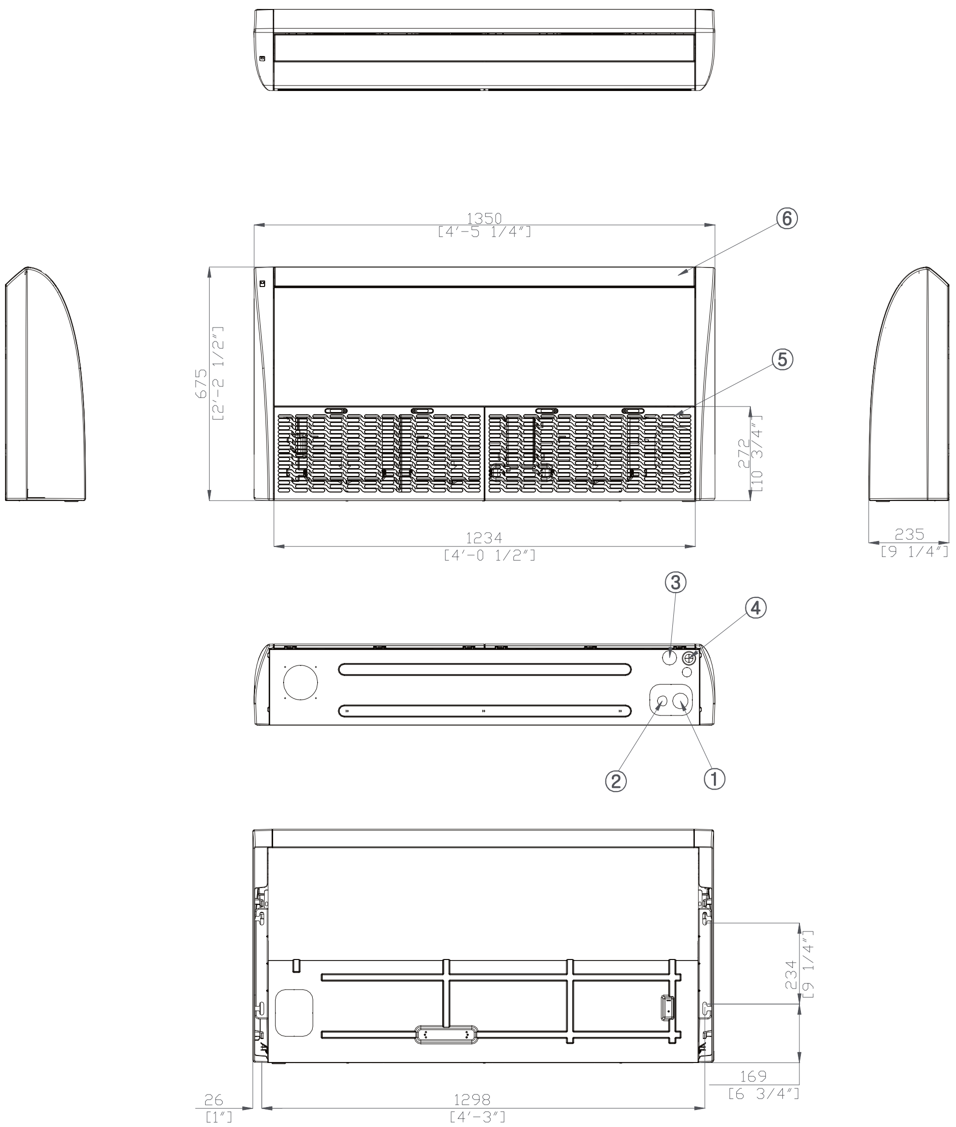


Table of descriptions			
1	Refrigerant gas pipe	7	
2	Refrigerant liquid pipe	8	
3	Condensate drain	9	
4	Power&Comm. wiring conduits	10	
5	Air Inlet grille	11	
6	Air Outlet grille	12	

Big Ceiling

AM140JNCDKH/EU

Units : mm/inches

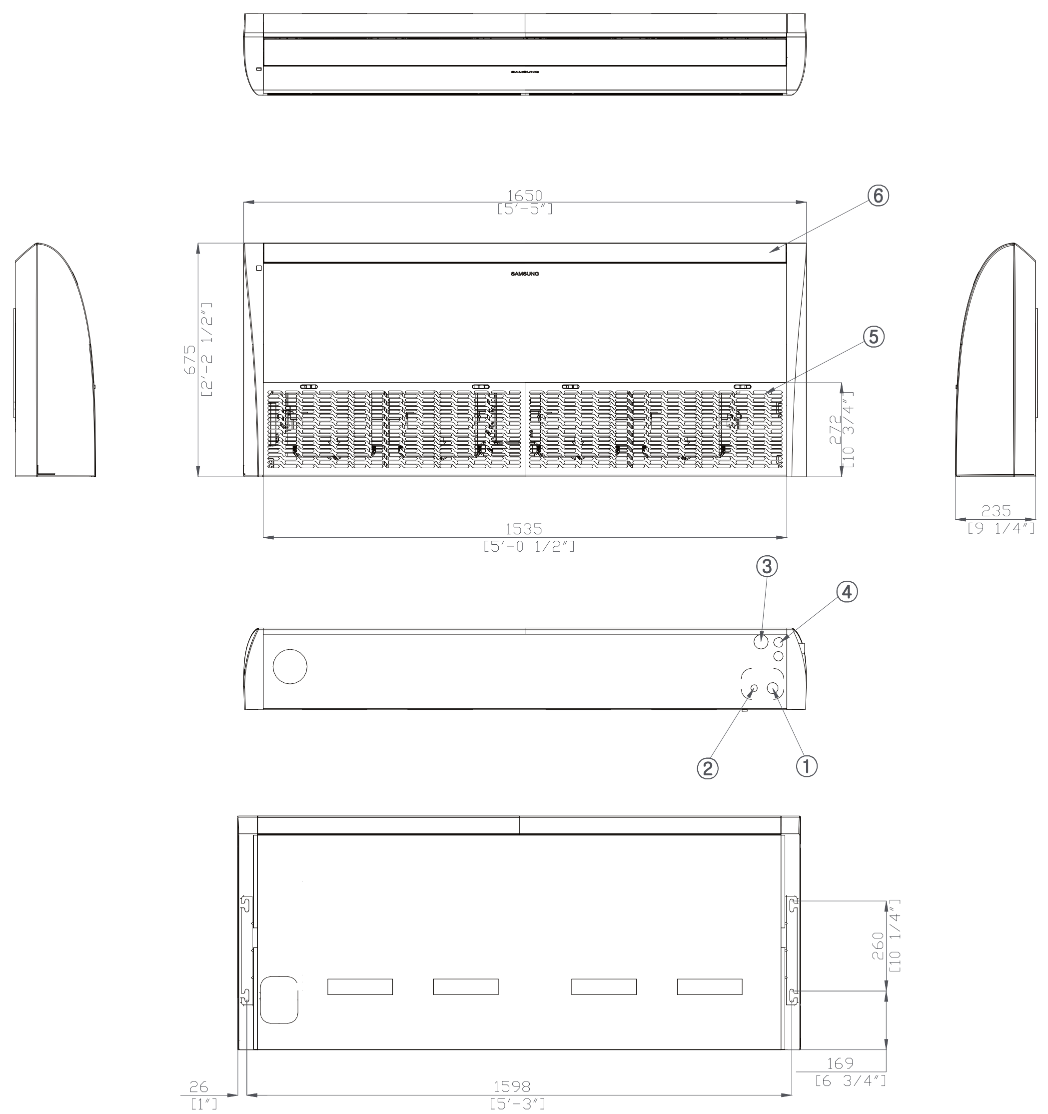
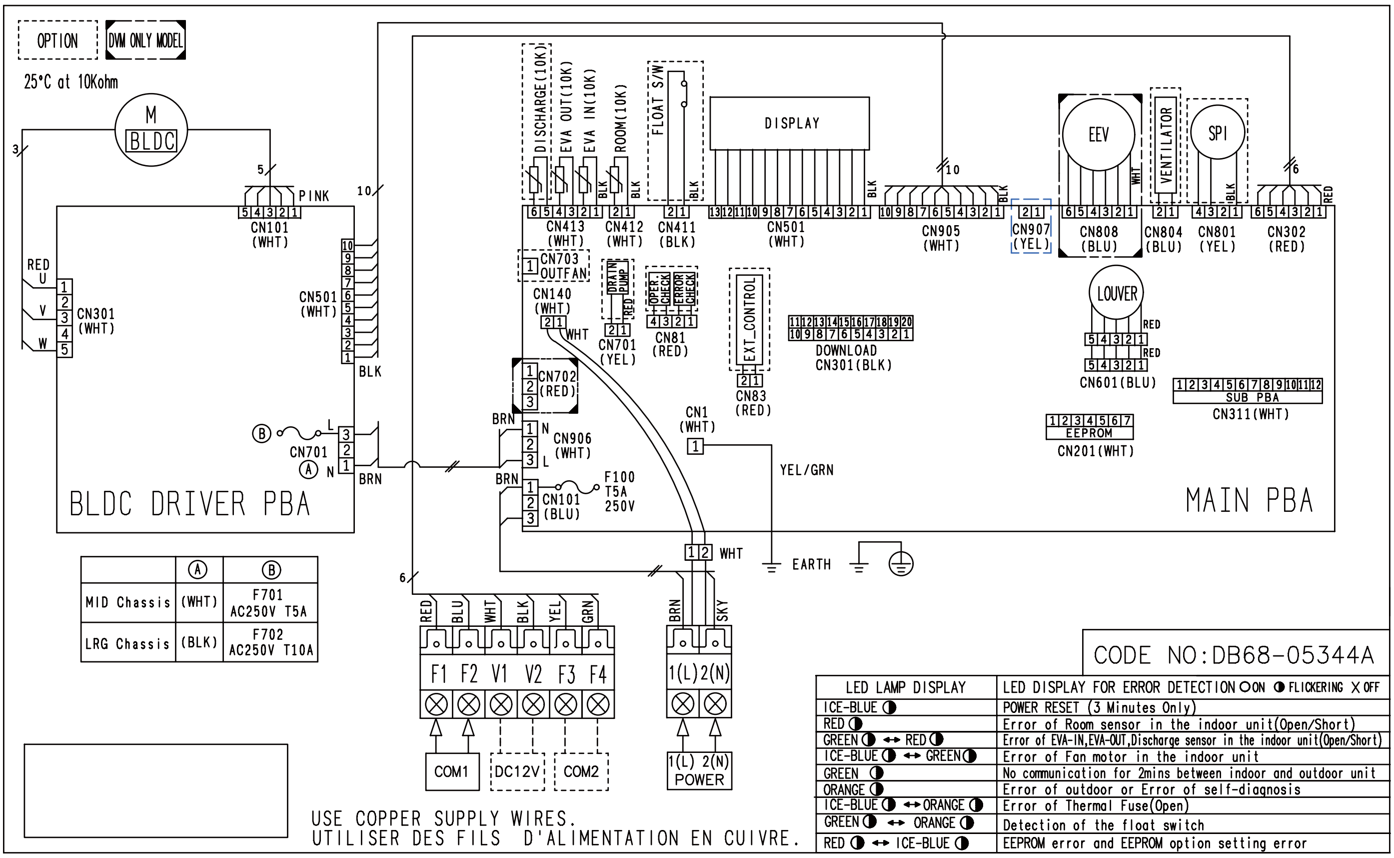


Table of descriptions			
1	Refrigerant gas pipe	7	
2	Refrigerant liquid pipe	8	
3	Condensate drain	9	
4	Power&Comm. wiring conduits	10	
5	Air Inlet grille	11	
6	Air Outlet grille	12	

Big Ceiling

AM112/140JNCDKH/EU

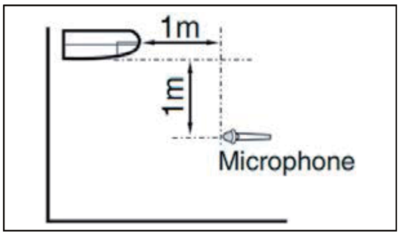


NOTE

1. This wiring diagram applies only to the indoor unit.
2. Symbols show as follow;
   BLK : black, RED : red, BLU : blue, WHT:white, YEL : yellow, BRN : brown, SKY : sky-blue, GRN : green
3. For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remotecontroller transmission F3-F4.
4. ⏚ : Protective earth(screw), □□□□ : Connector, n/ : The wire quantity

5 Sound pressure level

Big Ceiling



Unit: dB(A)

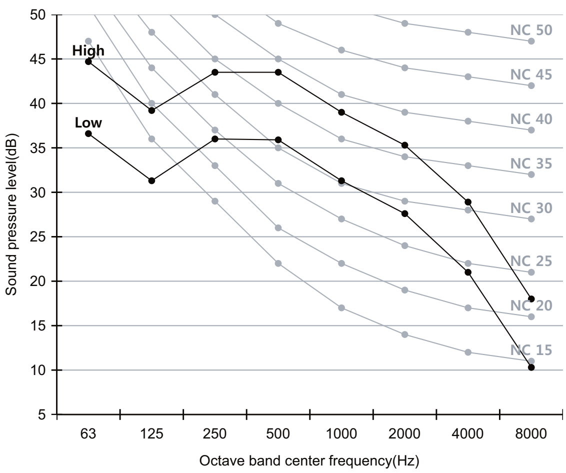
Model	High	Low
AM112JNCDKH/EU	45	37
AM140JNCDKH/EU	46	38

Note

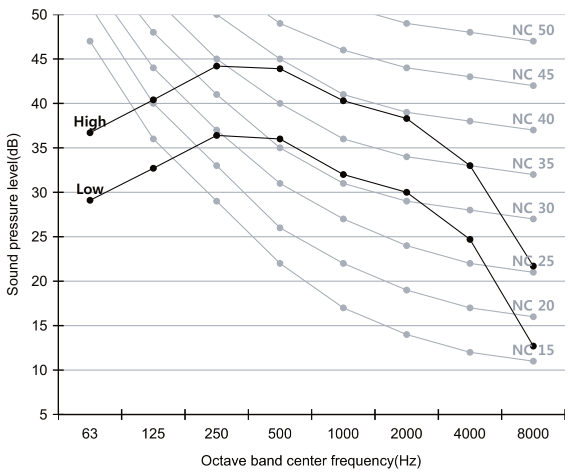
Specifications may be subject to change without prior notice.
Sound pressure level is obtained in an anechoic room.
Sound pressure level is a relative value, depending on the distance and acoustic environment.
Sound pressure level may differ depending on operation condition.
dBA = A-weighted sound pressure level
Reference acoustic pressure 0 dB= 20 uPa

NC curve

1) AM112JNCDKH/EU



2) AM140JNCDKH/EU



6 Sound power level

Big Ceiling

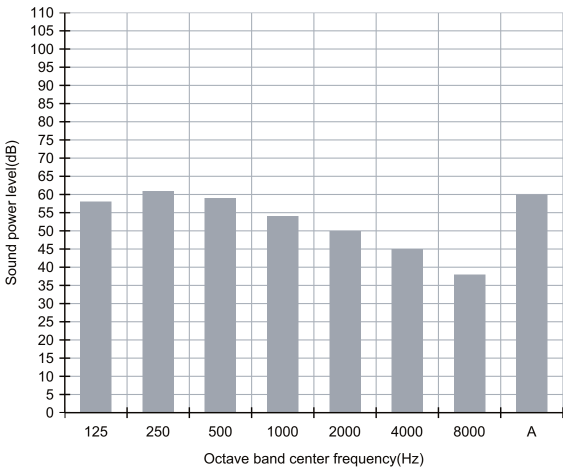
Note

. Specifications may be subject to change without prior notice.
. Sound power level is an absolute value that a sound source generates.
. dBA = A-weighted sound power level.
. Reference power : 1pW.
. Measured according to ISO 3741

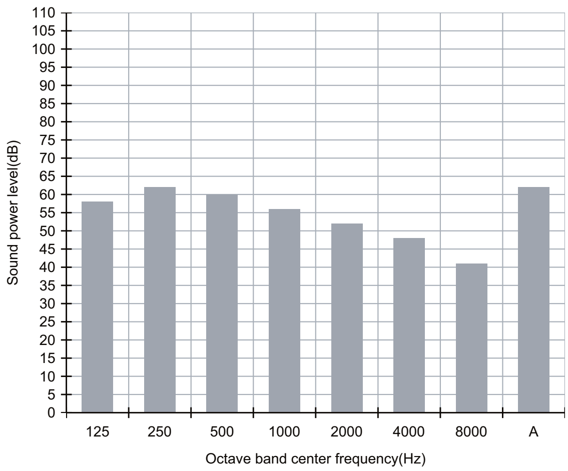
Unit: dB(A)

Model	Power
AM112JNCDKH/EU	61
AM140JNCDKH/EU	63

1)AM112JNCDKH/EU



2)AM140JNCDKH/EU

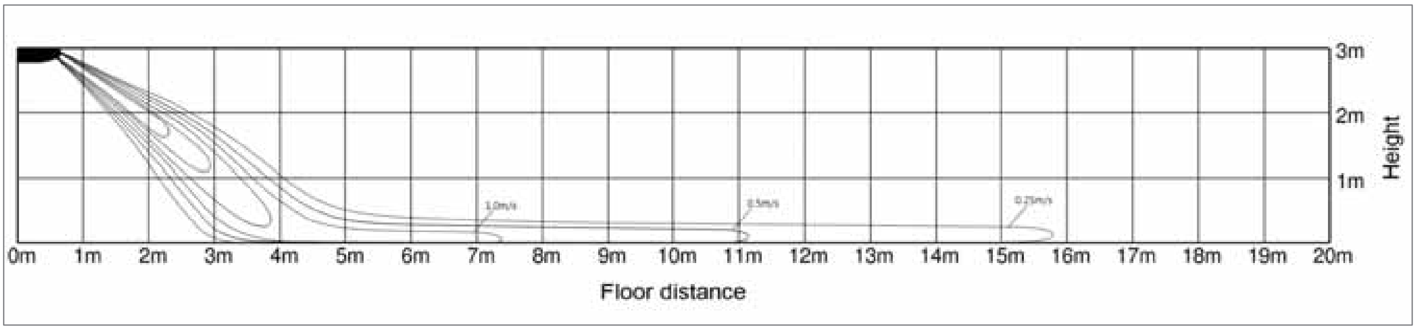


Big Ceiling

AM112JNCDKH/EU

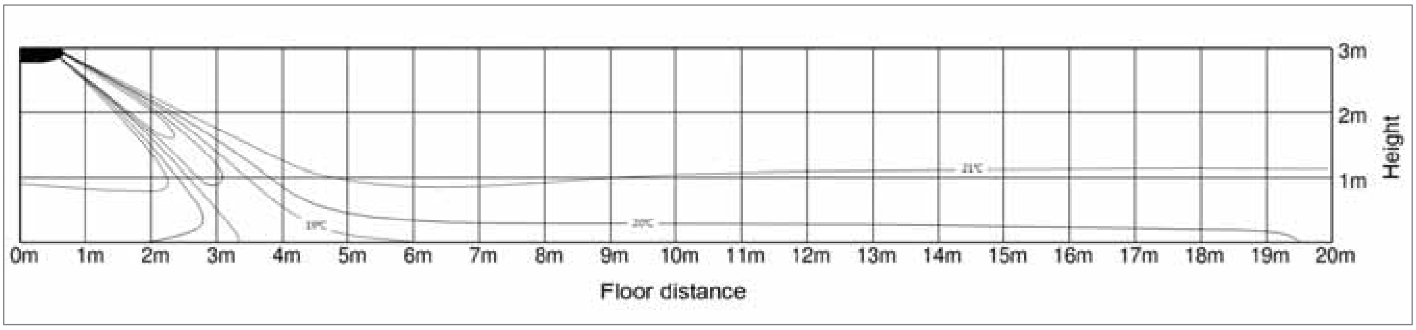
(1) Cooling air velocity distribution

Discharge angle : 32º



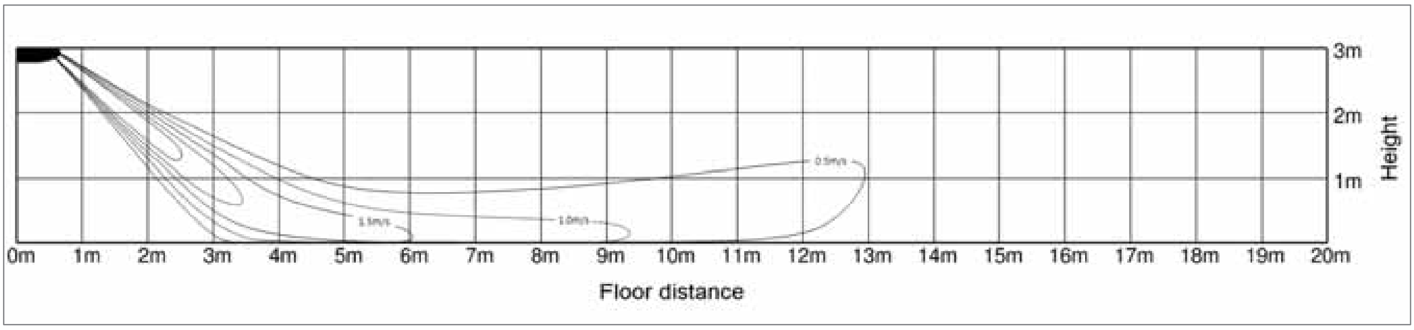
(2) Cooling temperature distribution

Discharge angle : 32º



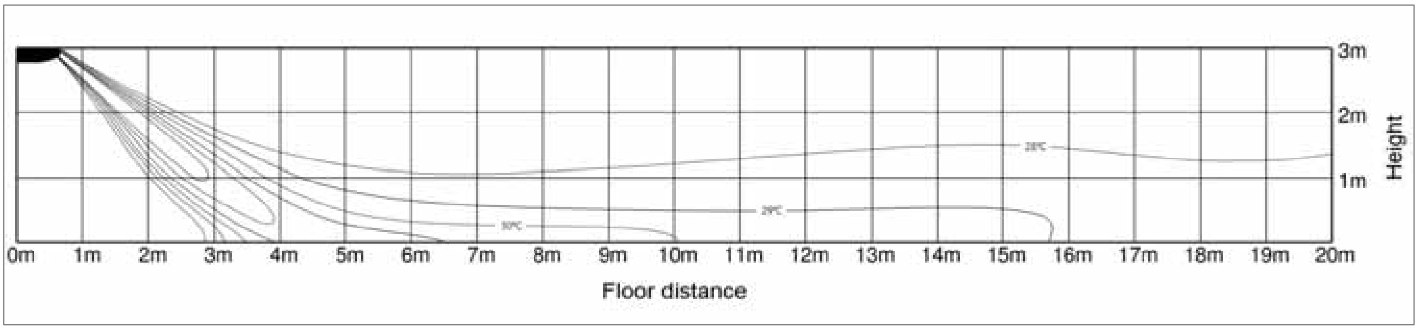
(3) Heating air velocity distribution

Discharge angle : 43º



(4) Heating temperature distribution

Discharge angle : 43º



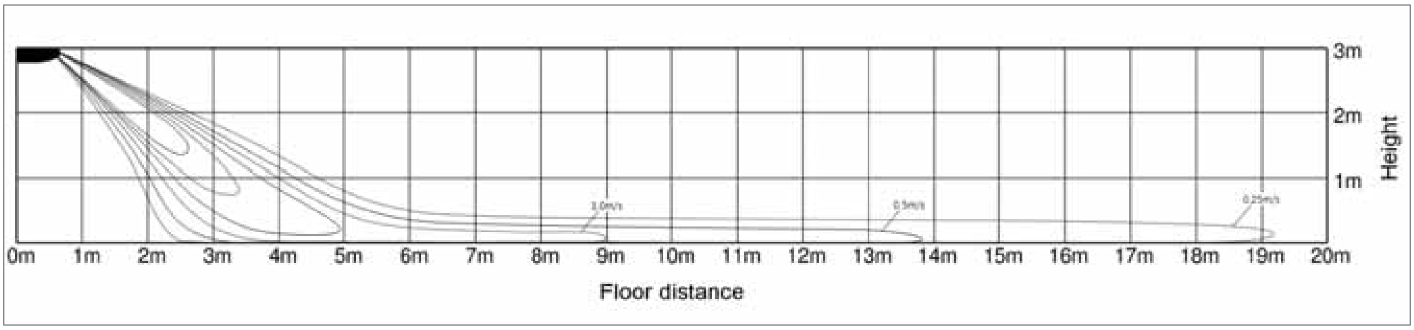
7 Temperature and air flow distribution

Big Ceiling

AM140JNCDKH/EU

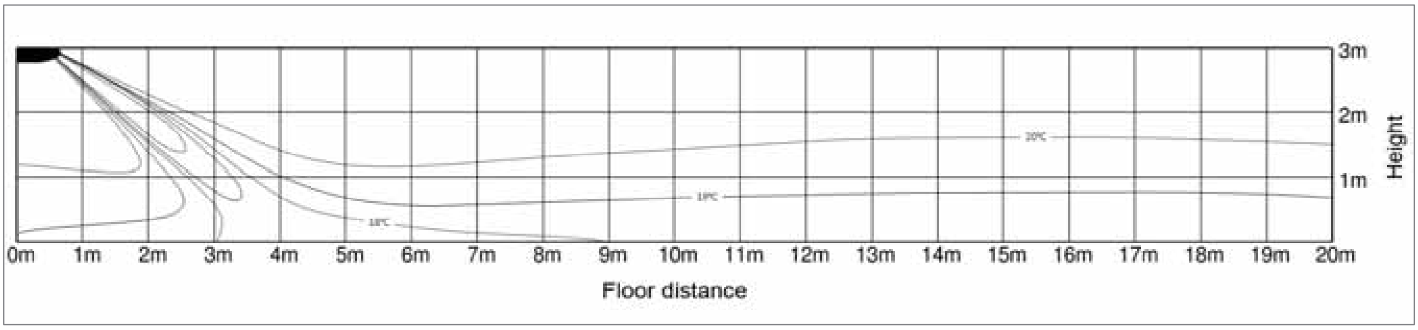
(1) Cooling air velocity distribution

Discharge angle : 32º



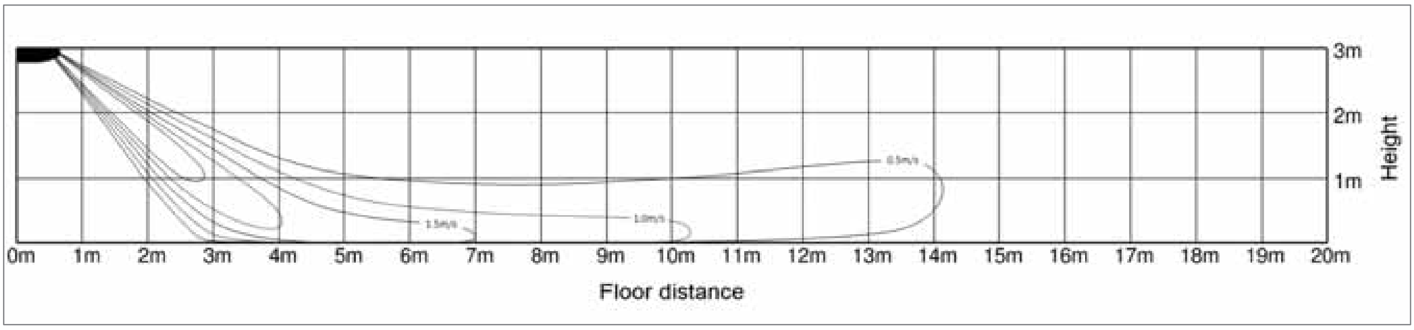
(2) Cooling temperature distribution

Discharge angle : 32º



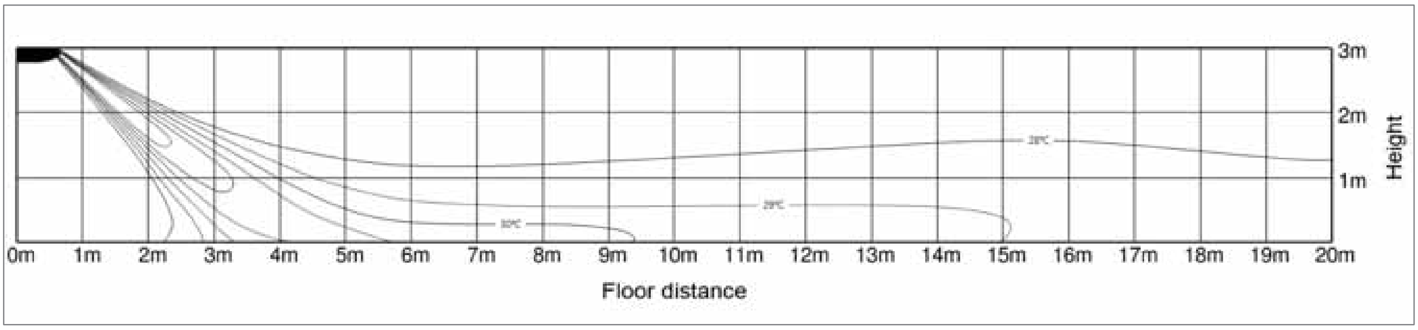
(3) Heating air velocity distribution

Discharge angle : 43º



(4) Heating temperature distribution

Discharge angle : 43º



Console

1 Specifications

Console

Type				Console	Console
Model				AM022KNJDEH/EU	AM045KNJDEH/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	4.50
			Btu/h	7,500	15,400
		Heating	kW	2.50	5.00
			Btu/h	8,500	17,100
Power	Power Input (Nominal)	Cooling	W	16.00	36.00
		Heating		16.00	36.00
	Current Input (Nominal)	Cooling	A	0.13	0.30
		Heating		0.13	0.30
Fan	Motor	Type	-	Turbo Fan	Turbo Fan
		Output x n	w	37 x 1	37 x 1
	Air Flow Rate	H/M/L (UL)	CMM	6.30 / 5.40 / 4.90	11.30 / 9.80 / 8.20
			l/s	105.00 / 90.00 / 81.67	188.33 / 163.33 / 136.67
	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 INCLUDED
Sound	Pressure	High / Mid / Low	dB(A)	34 / 32 / 30	42 / 39 / 36
	Power	Cooling		52	63
Dimension	Net Weight		kg	15.50	16.00
	Shipping Weight		kg	20.50	21.00
	Net Dimensions (WxHxD)		mm	720 x 620 x 199	720 x 620 x 199
	Shipping Dimensions (WxHxD)		mm	810 x 710 x 295	810 x 710 x 295
Panel Size	Panel model		-	-	-
	Panel Net Weight		kg	-	-
	Shipping Weight		kg	-	-
	Net Dimensions (WxHxD)		mm	-	-
	Shipping Dimensions (WxHxD)		mm	-	-
Additional Accessories	Drain Pump	Drain Pump	- / Model	-	-
		Max. lifting Height / Displacement	mm/liter/h	-	-
	Air Filter		-	-	-

NOTE

1) Mode : HP(Heat Pump), HR(Heat Recovery)
2) Nominal Cooling : Indoor temperature 27ºCDB / 19ºCWB, Outdoor temperature 35ºCDB/24ºCWB, Refrigerant pipe length 7.5m, Level difference 0m.
3) Nominal Heating : Indoor temperature 20ºCDB / 15ºCWB, Outdoor temperature 7ºCDB / 6ºCWB, Refrigerant pipe length 7.5m, Level difference 0m.
4) Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
5) These products contain R410A which is fluorinated greenhouse gas.
6) Specifications may be subject to change without prior notice.
* Heat Exchanger type : Fin & Tube (Fin : Al, Tube : Cu)

Console

Model				AM028FNJDEH/EU	AM036FNJDEH/EU	AM056FNJDEH/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	2.8	3.6	5.6
			Btu/h	9,600	12,300	19,100
		Heating	kW	3.2	4.0	6.3
			Btu/h	10,900	13,600	21,500
Power	Power Input (Nominal)	Cooling	W	30	35	62
		Heating		30	35	62
	Current Input (Nominal)	Cooling	A	0.25	0.29	0.49
		Heating		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	dBA	38 / 36 / 34	39 / 37 / 34	43 / 40 / 37
	Sound Power		dBA	58	59	64
Dimensions	Net Weight		kg	16.00	16.00	16.00
	Shipping Weight		kg	21.00	21.00	21.00
	Net Dimensions (W×H×D)		mm	720 x 620 x 199	720 x 620 x 199	720 x 620 x 199
	Shipping Dimensions (W×H×D)		mm	810 x 710 x 295	810 x 710 x 295	810 x 710 x 295
Panel Size	Panel model		-	-	-	-
	Panel Net Weight		kg	-	-	-
	Shipping Weight		kg	-	-	-
	Net Dimensions (W×H×D)		mm	-	-	-
	Shipping Dimensions (W×H×D)		mm	-	-	-
Additional Accessories	Drain pump	Drain pump	- / Model	-	-	-
		Max. lifting Height / Displacement	mm/liter/h	-	-	-
	Air Filter		-	Long life filter	Long life filter	Long life filter

NOTE

1) Mode : HP(Heat Pump), HR(Heat Recovery)
2) Nominal Cooling : Indoor temperature 27ºCDB / 19ºCWB, Outdoor temperature 35ºCDB/24ºCWB, Refrigerant pipe length 7.5m, Level difference 0m.
3) Nominal Heating : Indoor temperature 20ºCDB / 15ºCWB, Outdoor temperature 7ºCDB / 6ºCWB, Refrigerant pipe length 7.5m, Level difference 0m.
4) Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
5) These products contain R410A which is fluorinated greenhouse gas.
6) Specifications may be subject to change without prior notice.
* Heat Exchanger type : Fin & Tube (Fin : Al, Tube : Cu)

2 Capacity Table

Console

Cooling

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

Model	Outdoor Air Temp. (DB)	Indoor temperature													
		20 (ºC, DB)		23 (ºC, DB)		26 (ºC, DB)		27 (ºC, DB)		28 (ºC, DB)		30 (ºC, DB)		32 (ºC, DB)	
		14 (ºC, WB)		16 (ºC, WB)		18 (ºC, WB)		19 (ºC, WB)		20 (ºC, WB)		22 (ºC, WB)		24 (ºC, WB)	
		TC(kW)	SHC(kW)	TC(kW)	SHC(kW)	TC(kW)	SHC(kW)	TC(kW)	SHC(kW)	TC(kW)	SHC(kW)	TC(kW)	SHC(kW)	TC(kW)	SHC(kW)
022	10.0	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
	12.0	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
	14.0	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
	16.0	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
	18.0	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
	20.0	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
	21.0	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
	23.0	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
	25.0	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
	27.0	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
	29.0	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
	31.0	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
	33.0	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
	35.0	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
	37.0	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
	39.0	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
045	10.0	3.10	2.60	3.70	2.70	4.20	2.90	4.50	3.00	4.70	3.00	5.00	3.00	5.40	2.80
	12.0	3.10	2.60	3.70	2.70	4.20	2.90	4.50	3.00	4.70	3.00	5.00	3.00	5.40	2.80
	14.0	3.10	2.60	3.70	2.70	4.20	2.90	4.50	3.00	4.70	3.00	5.00	3.00	5.40	2.80
	16.0	3.10	2.60	3.70	2.70	4.20	2.90	4.50	3.00	4.70	3.00	5.00	3.00	5.30	2.70
	18.0	3.10	2.60	3.70	2.70	4.20	2.90	4.50	3.00	4.70	3.00	5.00	3.00	5.30	2.70
	20.0	3.10	2.60	3.70	2.70	4.20	2.90	4.50	3.00	4.70	3.00	5.00	3.00	5.30	2.70
	21.0	3.10	2.60	3.70	2.70	4.20	2.90	4.50	3.00	4.70	3.00	5.00	3.00	5.30	2.70
	23.0	3.10	2.60	3.70	2.70	4.20	2.90	4.50	3.00	4.70	3.00	5.00	3.00	5.30	2.70
	25.0	3.10	2.60	3.70	2.70	4.20	2.90	4.50	3.00	4.70	3.00	5.00	3.00	5.30	2.70
	27.0	3.10	2.60	3.70	2.70	4.20	2.90	4.50	3.00	4.70	3.00	5.00	3.00	5.30	2.70
	29.0	3.10	2.60	3.70	2.70	4.20	2.90	4.50	3.00	4.70	3.00	5.00	3.00	5.30	2.70
	31.0	3.10	2.60	3.70	2.70	4.20	2.90	4.50	3.00	4.70	3.00	5.00	3.00	5.30	2.70
	33.0	3.10	2.60	3.70	2.70	4.20	2.90	4.50	3.00	4.70	3.00	5.00	3.00	5.30	2.70
	35.0	3.10	2.60	3.70	2.70	4.20	2.90	4.50	3.00	4.70	3.00	5.00	3.00	5.30	2.70
	37.0	3.10	2.60	3.70	2.70	4.20	2.90	4.50	3.00	4.60	2.90	4.90	2.90	5.20	2.60
	39.0	3.10	2.60	3.70	2.70	4.20	2.90	4.50	3.00	4.60	2.90	4.90	2.90	5.10	2.50

2 Capacity Table

Console

Cooling

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

Model	Outdoor temperature (ºC, DB)	Indoor temperature (ºC, WB)													
		20 (ºC, DB) 14 (ºC, WB)		23 (ºC, DB) 16 (ºC, WB)		26 (ºC, DB) 18 (ºC, WB)		27 (ºC, DB) 19 (ºC, WB)		28 (ºC, DB) 20 (ºC, WB)		30 (ºC, DB) 22 (ºC, WB)		32 (ºC, DB) 24 (ºC, 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

Heating

TC : Total Capacity(kW)

Model	Outdoor Air Temp. (ºC)		Indoor temperature				
			16 (ºC, DB)	18 (ºC, DB)	20 (ºC, DB)	22 (ºC, DB)	24 (ºC, DB)
	DB	WB	TC(kW)	TC(kW)	TC(kW)	TC(kW)	TC(kW)
2.20	-24.8	-25.0	2.90	2.90	2.60	2.70	2.70
	-21.8	-22.0	3.00	3.00	2.80	2.80	2.80
	-19.8	-20.0	3.10	3.10	2.90	2.90	2.90
	-18.8	-19.0	3.10	3.10	3.00	2.90	2.90
	-16.7	-17.0	3.20	3.20	3.10	3.00	3.00
	-14.7	-15.0	3.30	3.30	3.20	3.10	3.00
	-12.6	-13.0	3.50	3.40	3.40	3.30	3.20
	-10.5	-11.0	3.70	3.60	3.60	3.50	3.40
	-9.5	-10.0	3.70	3.60	3.60	3.50	3.50
	-8.5	-9.1	3.80	3.70	3.70	3.60	3.60
	-7.0	-7.6	3.90	3.80	3.80	3.70	3.60
	-5.0	-5.6	4.10	4.00	4.00	3.90	3.70
	-3.0	-3.7	4.30	4.20	4.20	4.00	3.90
	0.0	-0.7	4.50	4.40	4.40	4.20	4.00
	3.0	2.2	4.70	4.70	4.60	4.40	4.20
	5.0	4.1	4.90	4.90	4.80	4.50	4.20
	7.0	6.0	5.10	5.10	5.00	4.60	4.20
	9.0	7.9	5.30	5.20	5.00	4.60	4.20
	11.0	9.8	5.50	5.20	5.00	4.60	4.20
	13.0	11.8	5.60	5.30	5.00	4.60	4.20
	15.0	13.7	5.80	5.40	5.00	4.60	4.20
4.50	-24.8	-25.0	14.00	13.50	12.70	11.60	10.50
	-21.8	-22.0	14.40	13.80	13.00	12.20	11.50
	-19.8	-20.0	14.60	14.10	13.30	12.60	12.20
	-18.8	-19.0	14.80	14.20	13.40	12.90	12.50
	-16.7	-17.0	15.10	14.50	13.70	13.30	13.20
	-14.7	-15.0	15.70	15.00	14.20	13.80	13.60
	-12.6	-13.0	16.40	15.70	14.90	14.40	14.20
	-10.5	-11.0	17.50	16.80	15.90	15.20	15.00
	-9.5	-10.0	17.90	17.10	16.20	15.50	15.30
	-8.5	-9.1	18.00	17.30	16.30	15.70	15.50
	-7.0	-7.6	18.30	17.60	16.60	16.10	15.80
	-5.0	-5.6	18.90	18.10	17.10	16.70	16.30
	-3.0	-3.7	19.30	18.60	17.50	17.40	16.60
	0.0	-0.7	19.70	19.10	17.90	17.50	17.10
	3.0	2.2	20.20	19.40	18.00	17.60	17.00
	5.0	4.1	20.40	19.40	18.00	17.60	17.00
	7.0	6.0	20.70	19.40	18.00	17.60	17.00
	9.0	7.9	20.70	19.40	18.00	17.60	17.00
	11.0	9.8	20.70	194.40	18.00	17.60	17.00
	13.0	11.8	20.70	19.40	18.00	17.60	17.00
	15.0	13.7	20.70	19.40	18.00	17.60	17.00

2 Capacity Table

Console

Heating

TC : Total Capacity(kW)

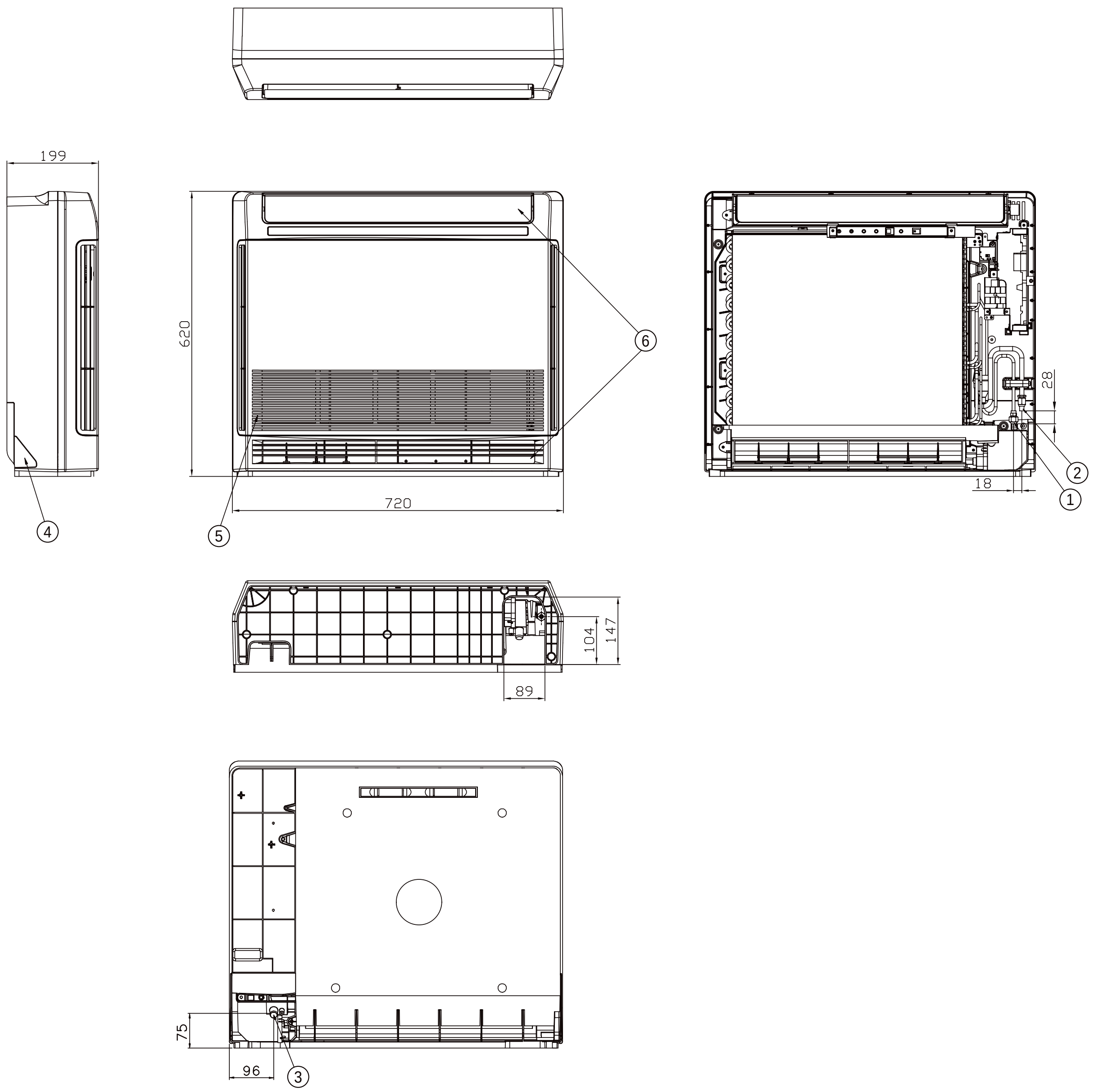
Model	Outdoor temperature (ºC)		Indoor temperature (ºC, DB)				
			16.0	18.0	20.0	22.0	24.0
			TC	TC	TC	TC	TC
	DB	WB	kW	kW	kW	kW	kW
028	-20	-21	1.9	1.9	1.9	1.9	1.9
	-17	-18	2.0	2.0	2.0	2.0	1.9
	-15	-16	2.1	2.1	2.0	2.0	1.9
	-12	-13	2.2	2.2	2.2	2.1	2.1
	-10	-11	2.3	2.3	2.3	2.3	2.2
	-7	-8	2.5	2.4	2.4	2.4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

3 Dimensional Drawing

Console

AM022/045KNJDEH/EU, AM028/036FNJDEH/EU

[Unit : mm]

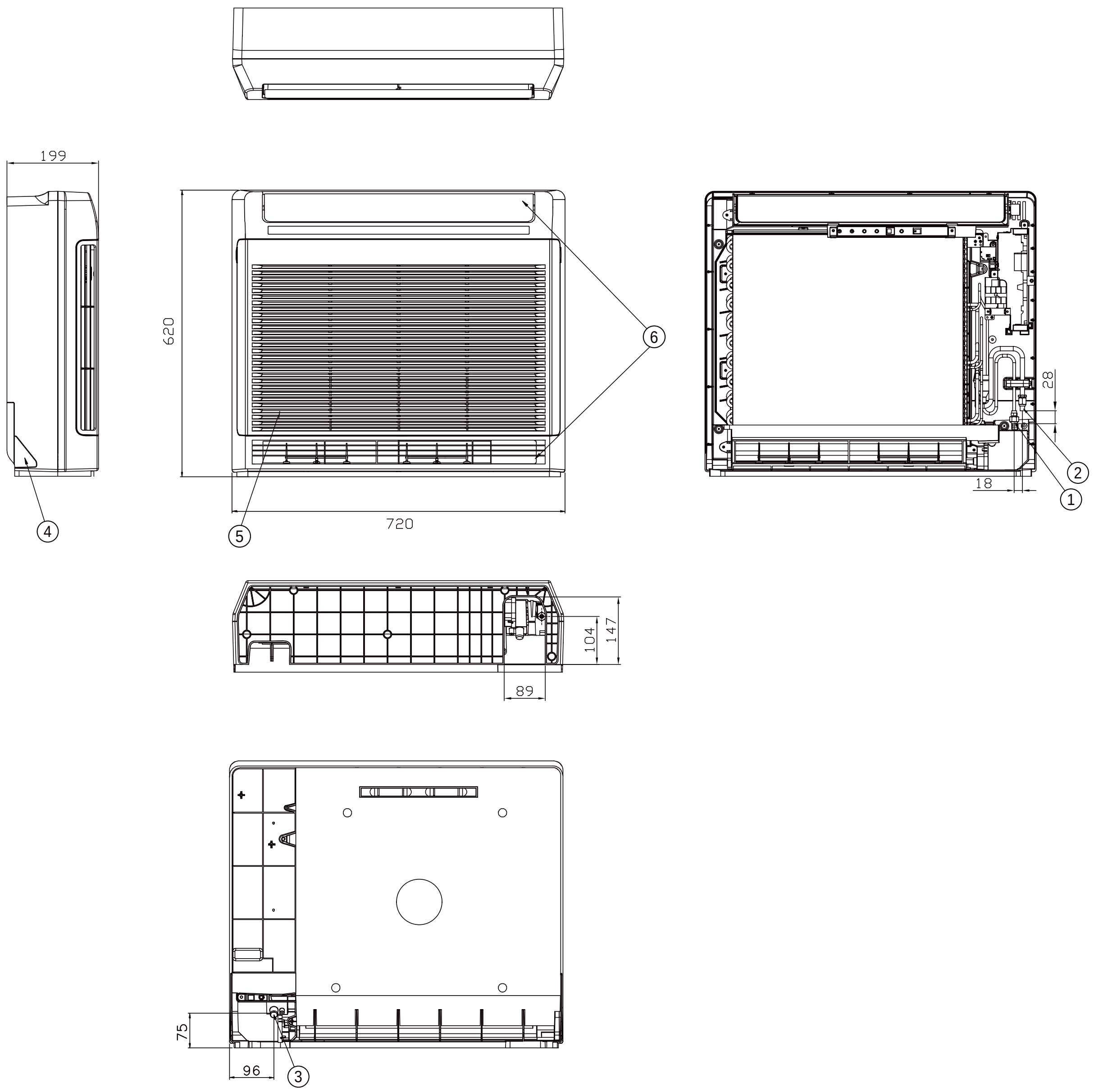


No.	Name	Description			
		2.2kW	2.8kW	3.6kW	4.5kW
1	Liquid pipe connection	Ø6.35 Flare			
2	Gas pipe connection	Ø12.70 Flare			
3	Drain pipe connection	ID18 Hose			
4	Conduit for power supply & communication wiring	-			
5	Air inlet grille	-			
6	Air outlet louver	-			

Console

AM056FNJDEH/EU

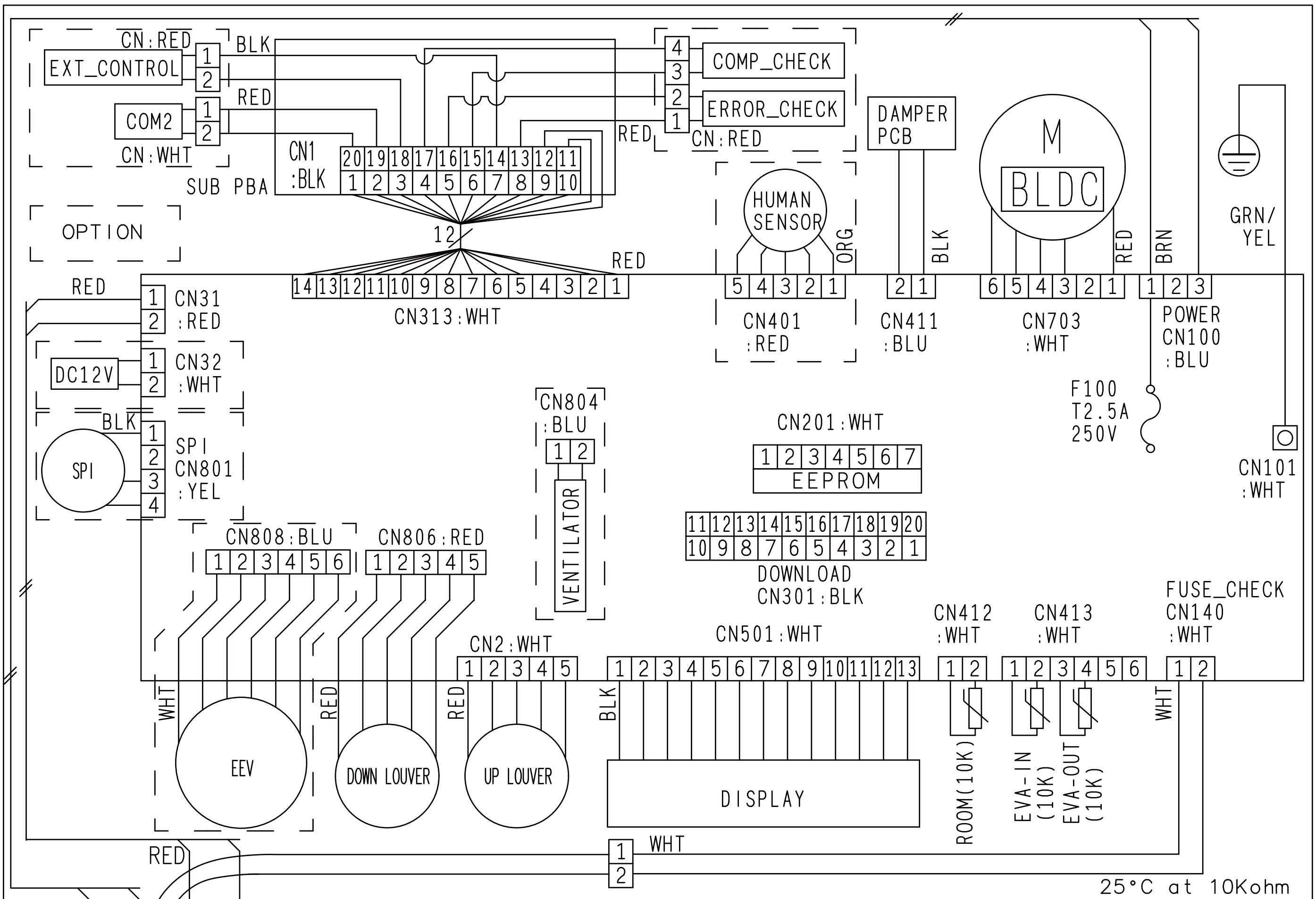
[Unit : mm]



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	-

Console

AM022/045KNJDEH/EU, AM028/036/056FNJDEH/EU



LED LAMP DISPLAY					LED DISPLAY FOR ERROR DETECTION
MPI	FAN	TIMER	DEFROST	OPERATION	○ON ◑ FLICKERING X OFF
X	X	◑	X	X	ERROR OF TEMPERATURE SENSOR IN THE INDOOR UNIT(OPEN/SHORT)
X	X	◑	X	◑	ERROR OF EVA IN,OUT SENSOR IN THE INDOOR UNIT(OPEN/SHORT)
X	◑	X	X	X	ERROR OF INDOOR FAN
X	◑	X	X	◑	ERROR OF OUTDOOR SENSOR(OUTDOOR TEMP./COND/DISCHARGE)
X	◑	◑	X	X	NO COMMUNICATION FOR 2 MINUTES BETWEEN INDOOR & OUTDOOR UNIT
◑	◑	◑	X	X	ERROR OF OUTDOOR UNIT/SELF-DIAGNOSIS (Check error code at outdoor unit's or solution display)
◑	◑	◑	◑	◑	EEPROM ERROR/EEPROM OPTION ERROR
◑	X	X	X	X	NO MATCH BETWEEN OUTDOOR & INDOOR
◑	X	◑	X	X	PERIPHERAL CONTROL UNIT OPTION ERROR

USE COPPER SUPPLY WIRES.
UTILISER DES FILS D'ALIMENTATION EN CUIVRE.

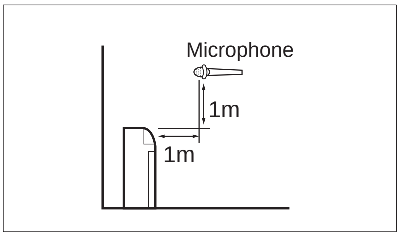
E-PASS:DB68-03600A

NOTE

1. This wiring diagram applies only to the indoor unit.
2. Symbols show as follow;
   BLK : black, RED : red, BLU : blue, WHT:white, YEL : yellow, BRN : brown, SKY : sky-blue, GRN : green
3. For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remotecontroller transmission F3-F4.
4. ⏚: Protective earth(screw), ☐☐☐☐ : Connector, n/ : The wire quantity

5 Sound Pressure Level

Console



Unit: dB(A)

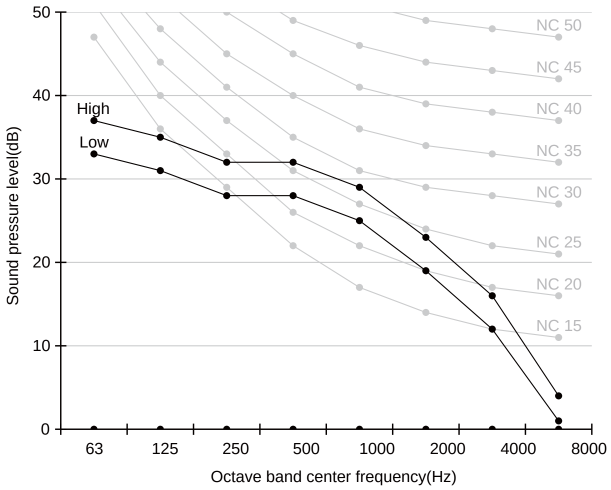
Model	High	Low
AM022KNJDEH/EU	34	30
AM045KNJDEH/EU	42	36

Note

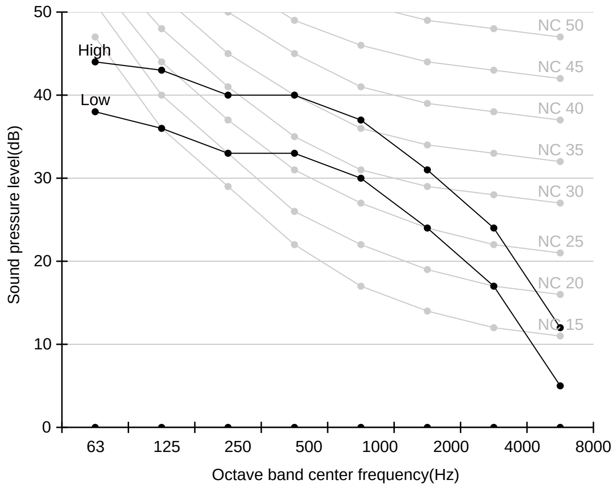
Specifications may be subject to change without prior notice.
Sound pressure level is obtained in an anechoic room.
Sound pressure level is a relative value, depending on the distance and acoustic environment.
Sound pressure level may differ depending on operation condition.
dBA = A-weighted sound pressure level
Reference acoustic pressure 0 dB= 20 uPa

NC curve

1) AM022KNJDEH/EU

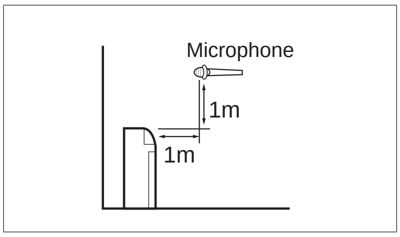


2) AM045KNJDEH/EU



5 Sound Pressure Level

Console



Unit: dB(A)

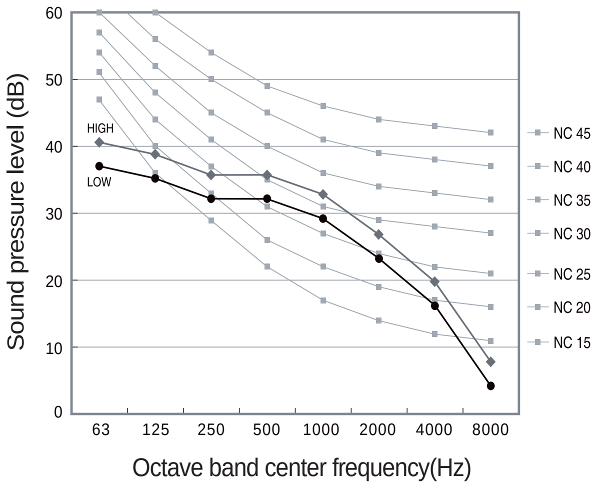
Model	High	Low
AM028FNJDEH/EU	38	34
AM036FNJDEH/EU	39	34
AM056FNJDEH/EU	43	37

Note

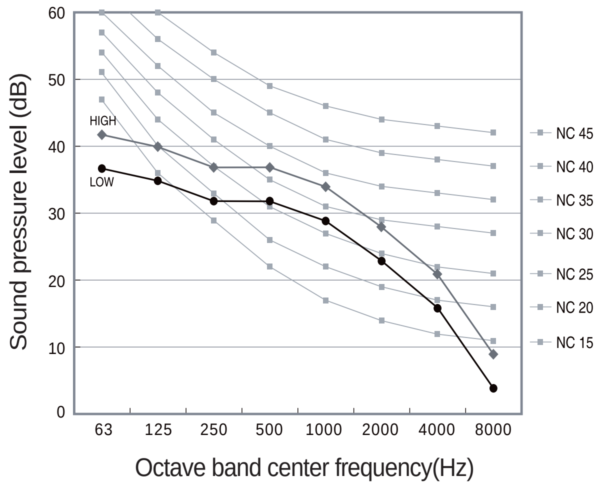
Specifications may be subject to change without prior notice.
Sound pressure level is obtained in an anechoic room.
Sound pressure level is a relative value, depending on the distance and acoustic environment.
Sound pressure level may differ depending on operation condition.
dBA = A-weighted sound pressure level
Reference acoustic pressure 0 dB= 20 uPa

NC curve

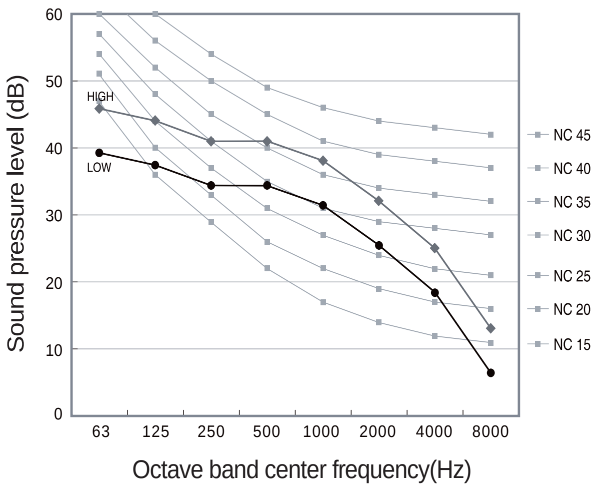
1) AM028FNJDEH/EU



2) AM036FNJDEH/EU



3) AM056FNJDEH/EU



6 Sound Power Level

Console

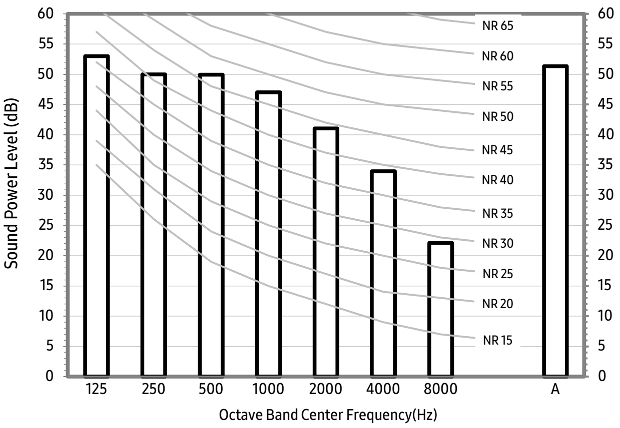
Note

. Specifications may be subject to change without prior notice.
. Sound power level is an absolute value that a sound source generates.
. dBA = A-weighted sound power level.
. Reference power : 1pW.
. Measured according to ISO 3741

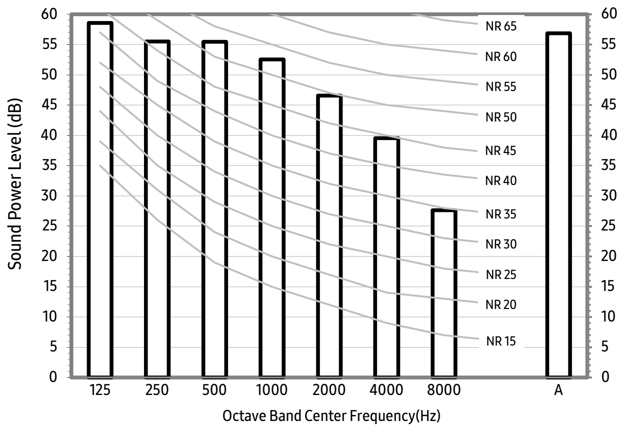
Unit: dB(A)

Model	Power
AM022KNJDEH/EU	52
AM028FNJDEH/EU	58
AM036FNJDEH/EU	59
AM045KNJDEH/EU	63
AM056FNJDEH/EU	64

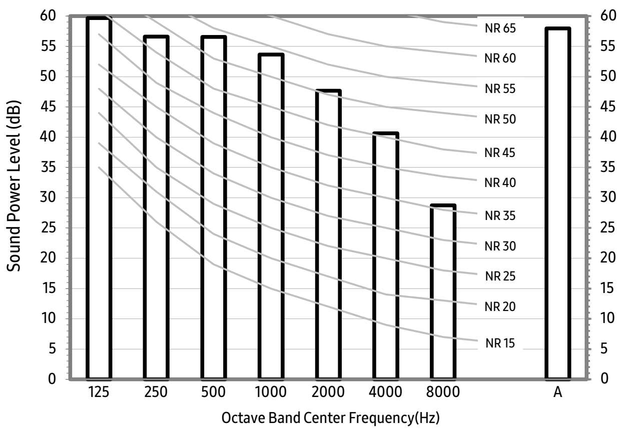
1) AM022KNJDEH/EU



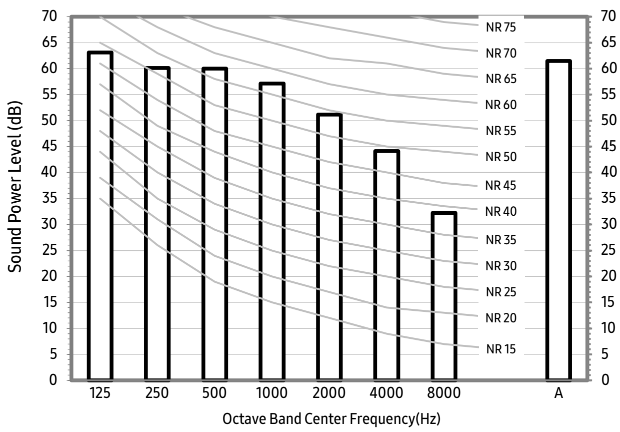
2) AM028FNJDEH/EU



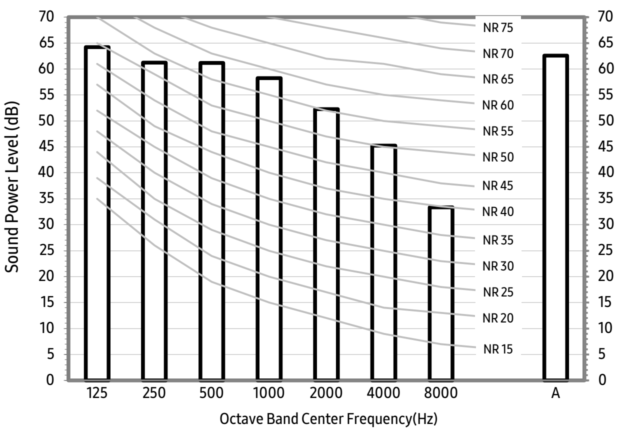
3) AM036FNJDEH/EU



4) AM045KNJDEH/EU



5) AM056FNJDEH/EU



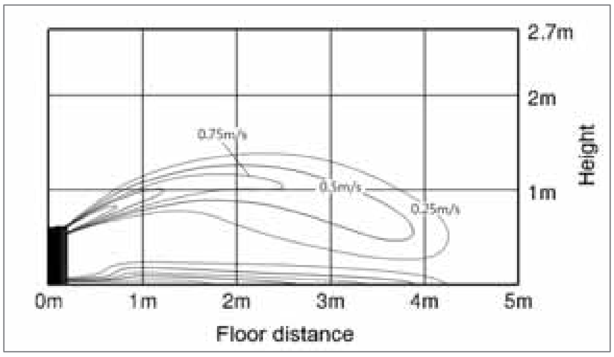
7 Temperature and air flow distribution

Console

AM022KNJDEH/EU

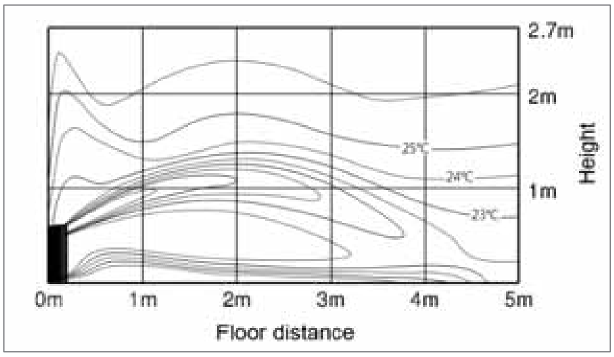
(1) Cooling air velocity distribution

Discharge angle (Default) : 40º



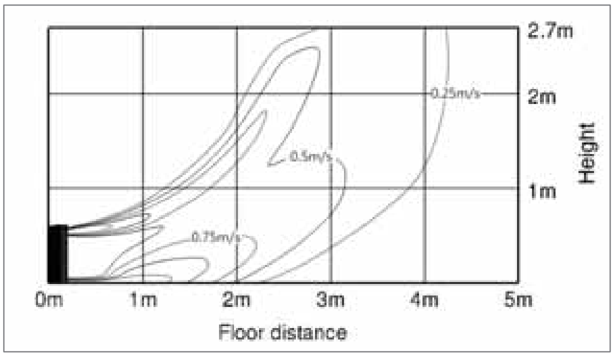
(2) Cooling temperature distribution

Discharge angle (Default) : 40º



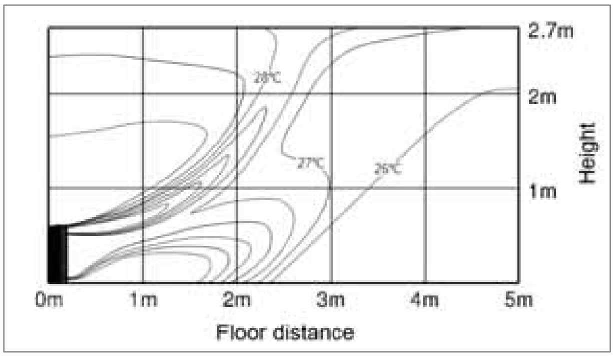
(3) Heating air velocity distribution

Discharge angle (Default) : 4º



(4) Heating temperature distribution

Discharge angle (Default) : 4º



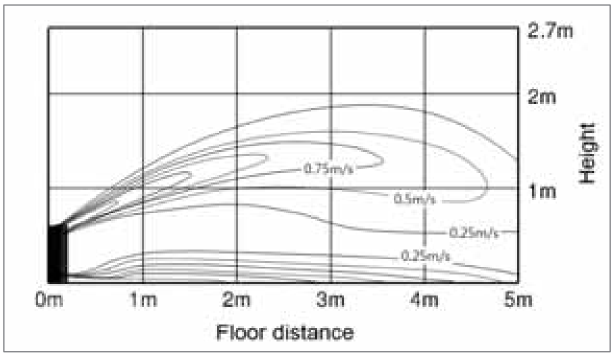
7 Temperature and air flow distribution

Console

AM028FNJDEH/EU

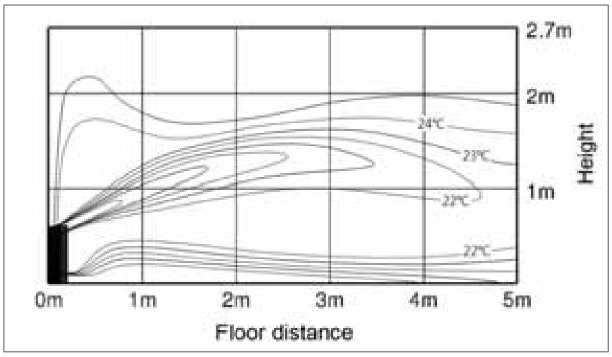
(1) Cooling air velocity distribution

Discharge angle (Default) : 40º



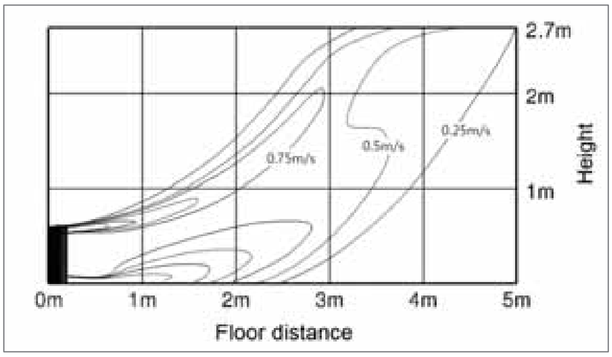
(2) Cooling temperature distribution

Discharge angle (Default) : 40º



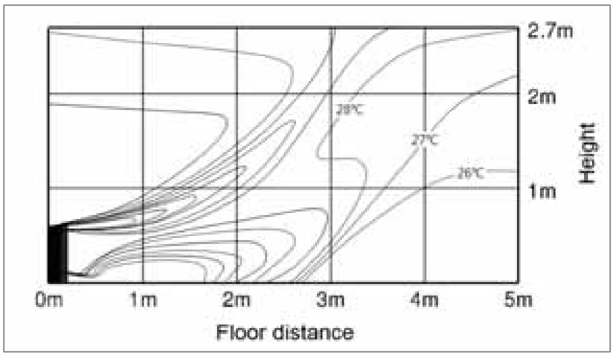
(3) Heating air velocity distribution

Discharge angle (Default) : 4º



(4) Heating temperature distribution

Discharge angle (Default) : 4º



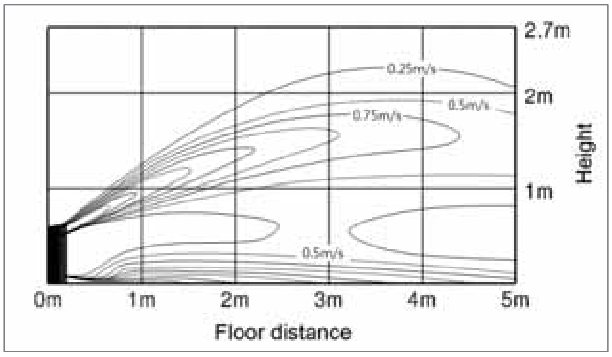
7 Temperature and air flow distribution

Console

AM036FNJDEH/EU

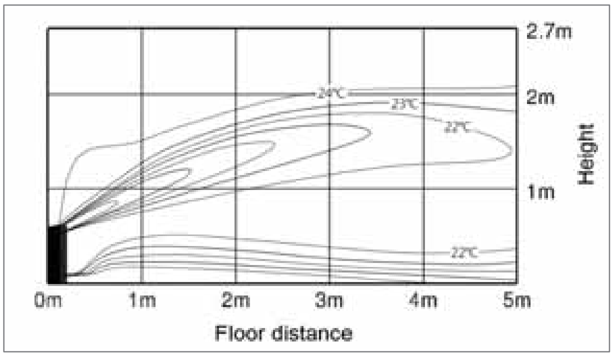
(1) Cooling air velocity distribution

Discharge angle (Default) : 40º



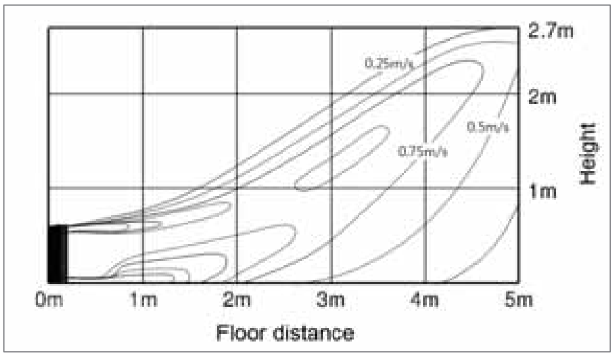
(2) Cooling temperature distribution

Discharge angle (Default) : 40º



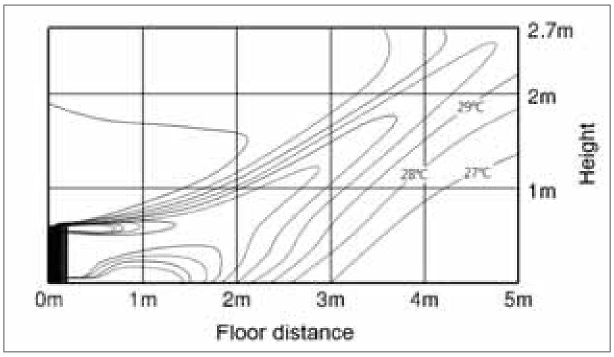
(3) Heating air velocity distribution

Discharge angle (Default) : 4º



(4) Heating temperature distribution

Discharge angle (Default) : 4º



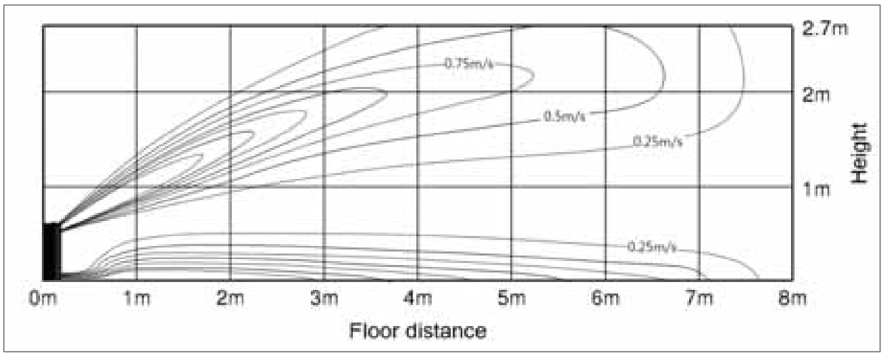
7 Temperature and air flow distribution

Console

AM045KNJDEH/EU

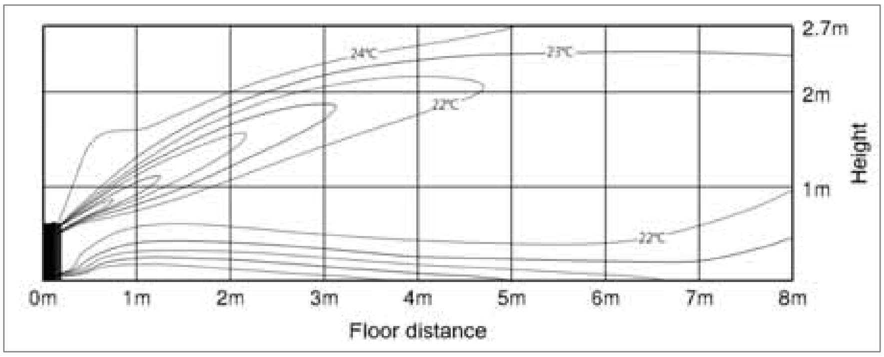
(1) Cooling air velocity distribution

Discharge angle (Default) : 40º



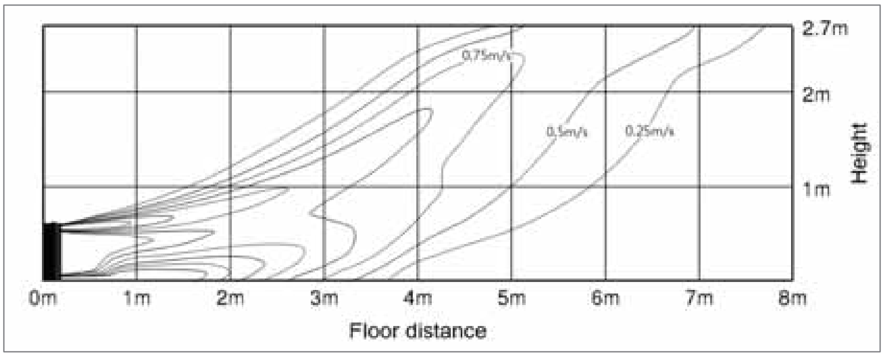
(2) Cooling temperature distribution

Discharge angle (Default) : 40º



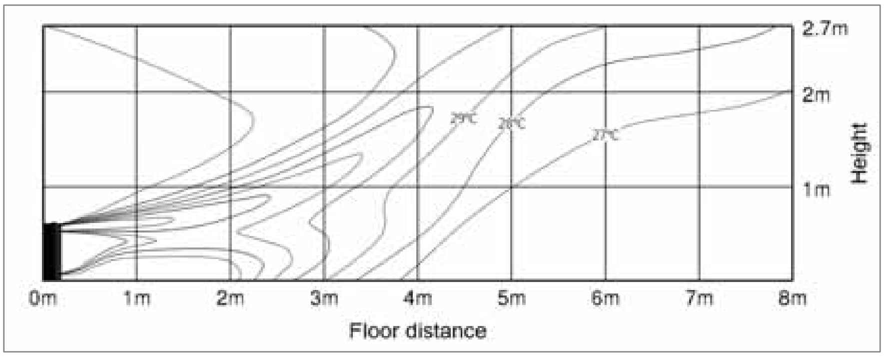
(3) Heating air velocity distribution

Discharge angle (Default) : 4º



(4) Heating temperature distribution

Discharge angle (Default) : 4º

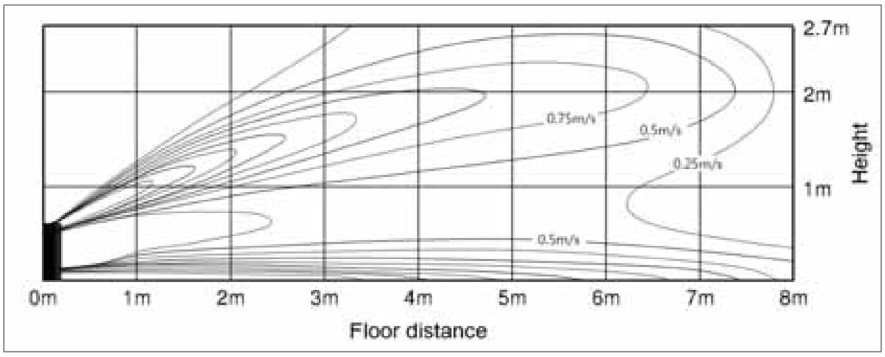


Console

AM056FNJDEH/EU

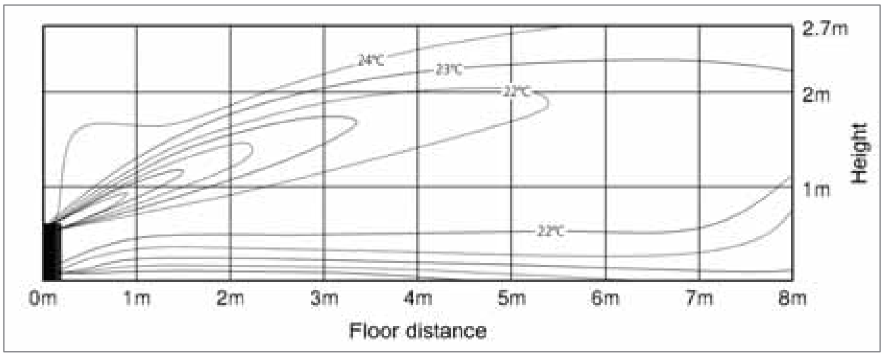
(1) Cooling air velocity distribution

Discharge angle (Default) : 40º



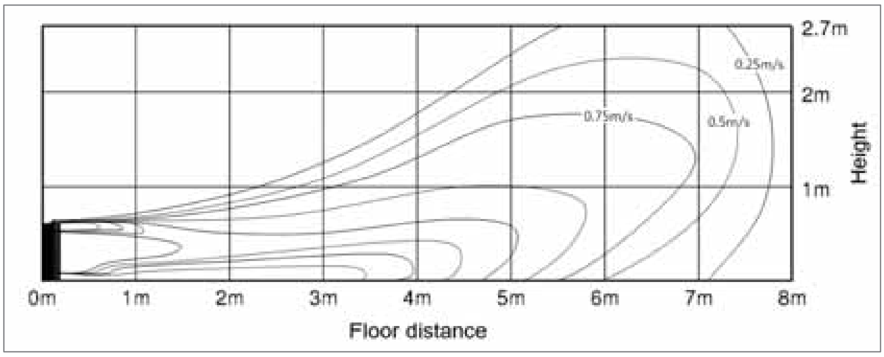
(2) Cooling temperature distribution

Discharge angle (Default) : 40º



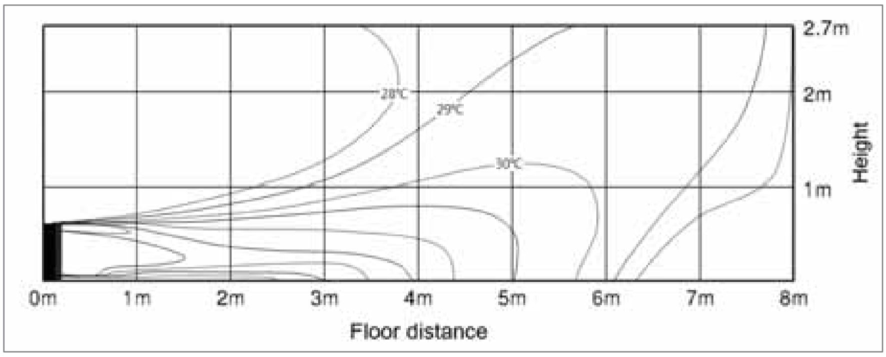
(3) Heating air velocity distribution

Discharge angle (Default) : 4º



(4) Heating temperature distribution

Discharge angle (Default) : 4º



Floor Standing

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.

* Heat Exchanger type : Fin & Tube (Fin : Al, Tube : Cu)

Floor Standing

1) Cooling

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

Model	Outdoor Air Temp. (ºC, DB)	Indoor temperature (ºC, WB)													
		14		16		18		19		20		22		24	
		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
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
056	10	3.9	3.3	4.6	3.8	5.3	4.0	5.6	4.2	5.8	4.2	6.3	4.3	6.7	4.1
	12	3.9	3.3	4.6	3.8	5.3	4.0	5.6	4.2	5.8	4.2	6.3	4.3	6.7	4.1
	14	3.9	3.3	4.6	3.8	5.3	4.0	5.6	4.2	5.8	4.2	6.2	4.2	6.7	4.1
	16	3.9	3.3	4.6	3.8	5.3	4.0	5.6	4.2	5.8	4.2	6.2	4.2	6.6	4.0
	18	3.9	3.3	4.6	3.8	5.3	4.0	5.6	4.2	5.8	4.2	6.2	4.2	6.6	4.0
	20	3.9	3.3	4.6	3.8	5.3	4.0	5.6	4.2	5.8	4.2	6.2	4.2	6.6	4.0
	21	3.9	3.3	4.6	3.8	5.3	4.0	5.6	4.2	5.8	4.2	6.2	4.2	6.6	4.0
	23	3.9	3.3	4.6	3.8	5.3	4.0	5.6	4.2	5.8	4.2	6.2	4.2	6.6	4.0
	25	3.9	3.3	4.6	3.8	5.3	4.0	5.6	4.2	5.8	4.2	6.2	4.2	6.6	4.0
	27	3.9	3.3	4.6	3.8	5.3	4.0	5.6	4.2	5.8	4.2	6.2	4.2	6.6	4.0
	29	3.9	3.3	4.6	3.8	5.3	4.0	5.6	4.2	5.8	4.2	6.2	4.2	6.6	4.0
	31	3.9	3.3	4.6	3.8	5.3	4.0	5.6	4.2	5.8	4.2	6.2	4.2	6.6	4.0
	33	3.9	3.3	4.6	3.8	5.3	4.0	5.6	4.2	5.8	4.2	6.2	4.2	6.6	4.0
	35	3.9	3.3	4.6	3.8	5.3	4.0	5.6	4.2	5.8	4.2	6.2	4.2	6.6	4.0
	37	3.9	3.3	4.6	3.8	5.3	4.0	5.6	4.2	5.8	4.2	6.1	4.1	6.5	3.9
	39	3.9	3.3	4.6	3.8	5.3	4.0	5.6	4.2	5.8	4.2	6.1	4.1	6.4	3.8
071	10	4.9	4.0	5.8	4.6	6.7	4.8	7.1	5.0	7.4	5.2	8.0	5.3	8.5	5.0
	12	4.9	4.0	5.8	4.6	6.7	4.8	7.1	5.0	7.4	5.2	7.9	5.2	8.5	5.0
	14	4.9	4.0	5.8	4.6	6.7	4.8	7.1	5.0	7.4	5.2	7.9	5.2	8.5	5.0
	16	4.9	4.0	5.8	4.6	6.7	4.8	7.1	5.0	7.4	5.2	7.9	5.2	8.4	4.9
	18	4.9	4.0	5.8	4.6	6.7	4.8	7.1	5.0	7.4	5.2	7.9	5.2	8.4	4.9
	20	4.9	4.0	5.8	4.6	6.7	4.8	7.1	5.0	7.4	5.2	7.9	5.2	8.4	4.9
	21	4.9	4.0	5.8	4.6	6.7	4.8	7.1	5.0	7.4	5.2	7.9	5.2	8.4	4.9
	23	4.9	4.0	5.8	4.6	6.7	4.8	7.1	5.0	7.4	5.2	7.9	5.2	8.4	4.9
	25	4.9	4.0	5.8	4.6	6.7	4.8	7.1	5.0	7.4	5.2	7.9	5.2	8.4	4.9
	27	4.9	4.0	5.8	4.6	6.7	4.8	7.1	5.0	7.4	5.2	7.9	5.2	8.4	4.9
	29	4.9	4.0	5.8	4.6	6.7	4.8	7.1	5.0	7.4	5.2	7.9	5.2	8.4	4.9
	31	4.9	4.0	5.8	4.6	6.7	4.8	7.1	5.0	7.4	5.2	7.9	5.2	8.4	4.9
	33	4.9	4.0	5.8	4.6	6.7	4.8	7.1	5.0	7.4	5.2	7.9	5.2	8.4	4.9
	35	4.9	4.0	5.8	4.6	6.7	4.8	7.1	5.0	7.4	5.2	7.9	5.2	8.4	4.9
	37	4.9	4.0	5.8	4.6	6.7	4.8	7.1	5.0	7.3	5.1	7.8	5.1	8.2	4.8
	39	4.9	4.0	5.8	4.6	6.7	4.8	7.1	5.0	7.3	5.1	7.7	5.0	8.1	4.7

Floor Standing

2) Heating

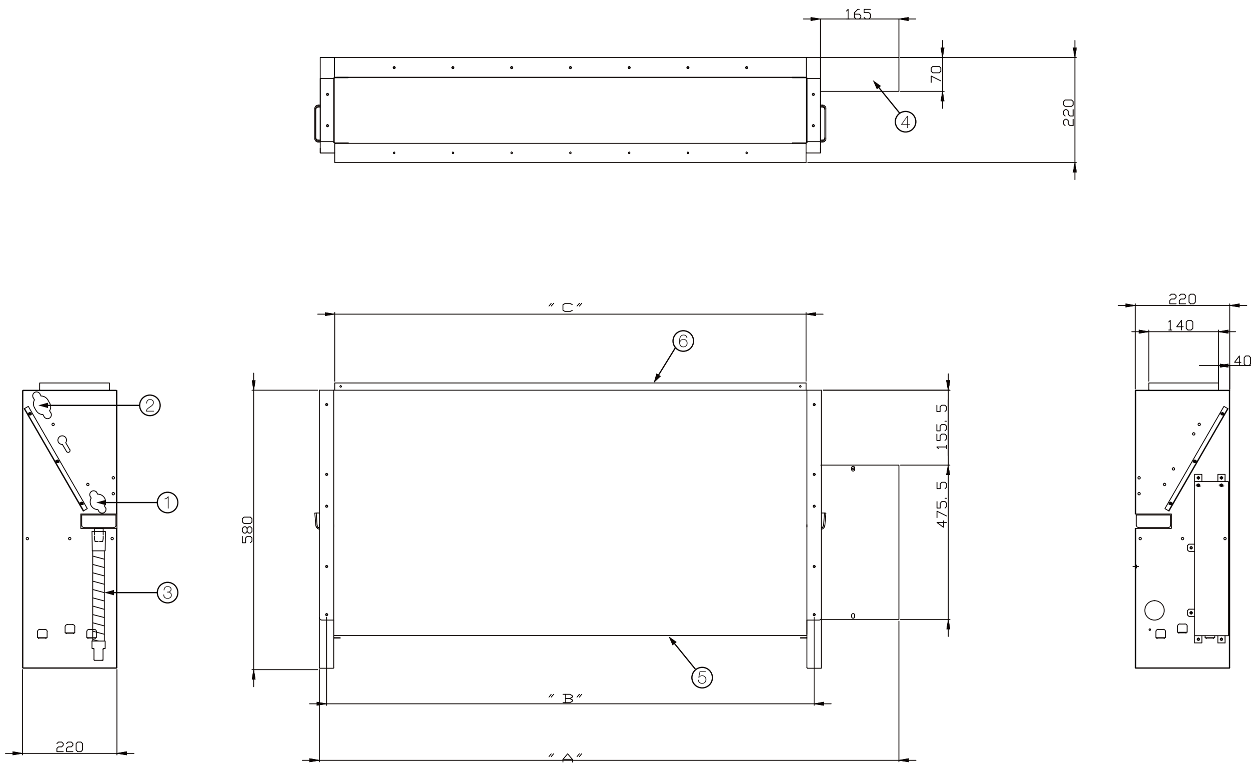
TC : Total Capacity(kW)

Model	Outdoor Air Temp. (℃)		Indoor temperature (ºC, DB)				
			16	18	20	22	24
			TC	TC	TC	TC	TC
	DB	WB	kW	kW	kW	kW	kW
036	-14.7	-15.0	2.7	2.6	2.5	2.5	2.4
	-12.6	-13.0	2.8	2.7	2.7	2.6	2.6
	-10.5	-11.0	2.9	2.9	2.9	2.8	2.8
	-9.5	-10.0	2.9	2.9	2.9	2.8	2.8
	-8.5	-9.1	3.0	3.0	3.0	2.9	2.9
	-7.0	-7.6	3.1	3.1	3.0	3.0	2.9
	-5.0	-5.6	3.3	3.2	3.2	3.1	3.0
	-3.0	-3.7	3.4	3.4	3.3	3.2	3.1
	0.0	-0.7	3.6	3.6	3.5	3.4	3.2
	3.0	2.2	3.8	3.7	3.7	3.5	3.4
	5.0	4.1	3.9	3.9	3.8	3.6	3.4
	7.0	6.0	4.1	4.1	4.0	3.7	3.4
	9.0	7.9	4.2	4.1	4.0	3.7	3.4
	11.0	9.8	4.4	4.2	4.0	3.7	3.4
	13.0	11.8	4.5	4.2	4.0	3.7	3.4
	15.0	13.7	4.6	4.3	4.0	3.7	3.4
056	-14.7	-15.0	4.2	4.1	4.0	3.9	3.8
	-12.6	-13.0	4.4	4.3	4.2	4.1	4.0
	-10.5	-11.0	4.6	4.5	4.4	4.4	4.3
	-9.5	-10.0	4.7	4.6	4.6	4.5	4.4
	-8.5	-9.1	4.8	4.7	4.7	4.6	4.5
	-7.0	-7.6	4.9	4.8	4.8	4.7	4.5
	-5.0	-5.6	5.2	5.1	5.0	4.9	4.7
	-3.0	-3.7	5.4	5.3	5.3	5.1	4.9
	0.0	-0.7	5.7	5.6	5.5	5.3	5.0
	3.0	2.2	5.9	5.9	5.8	5.6	5.3
	5.0	4.1	6.2	6.1	6.0	5.7	5.3
	7.0	6.0	6.5	6.4	6.3	5.8	5.3
	9.0	7.9	6.7	6.5	6.3	5.8	5.3
	11.0	9.8	6.9	6.6	6.3	5.8	5.3
	13.0	11.8	7.1	6.7	6.3	5.8	5.3
	15.0	13.7	7.3	6.8	6.3	5.8	5.3
071	-14.7	-15.0	5.3	5.2	5.1	4.9	4.8
	-12.6	-13.0	5.5	5.4	5.3	5.2	5.1
	-10.5	-11.0	5.8	5.7	5.6	5.5	5.5
	-9.5	-10.0	6.0	5.9	5.8	5.7	5.6
	-8.5	-9.1	6.1	6.0	5.9	5.8	5.7
	-7.0	-7.6	6.2	6.1	6.0	5.9	5.8
	-5.0	-5.6	6.5	6.5	6.4	6.2	6.0
	-3.0	-3.7	6.9	6.8	6.7	6.4	6.2
	0.0	-0.7	7.2	7.1	7.0	6.7	6.4
	3.0	2.2	7.6	7.5	7.3	7.1	6.8
	5.0	4.1	7.9	7.8	7.7	7.2	6.8
	7.0	6.0	8.2	8.1	8.0	7.4	6.8
	9.0	7.9	8.5	8.2	8.0	7.4	6.8
	11.0	9.8	8.7	8.4	8.0	7.4	6.8
	13.0	11.8	9.0	8.5	8.0	7.4	6.8
	15.0	13.7	9.2	8.6	8.0	7.4	6.8

3 Dimensional drawing

Floor Standing

Unit:mm



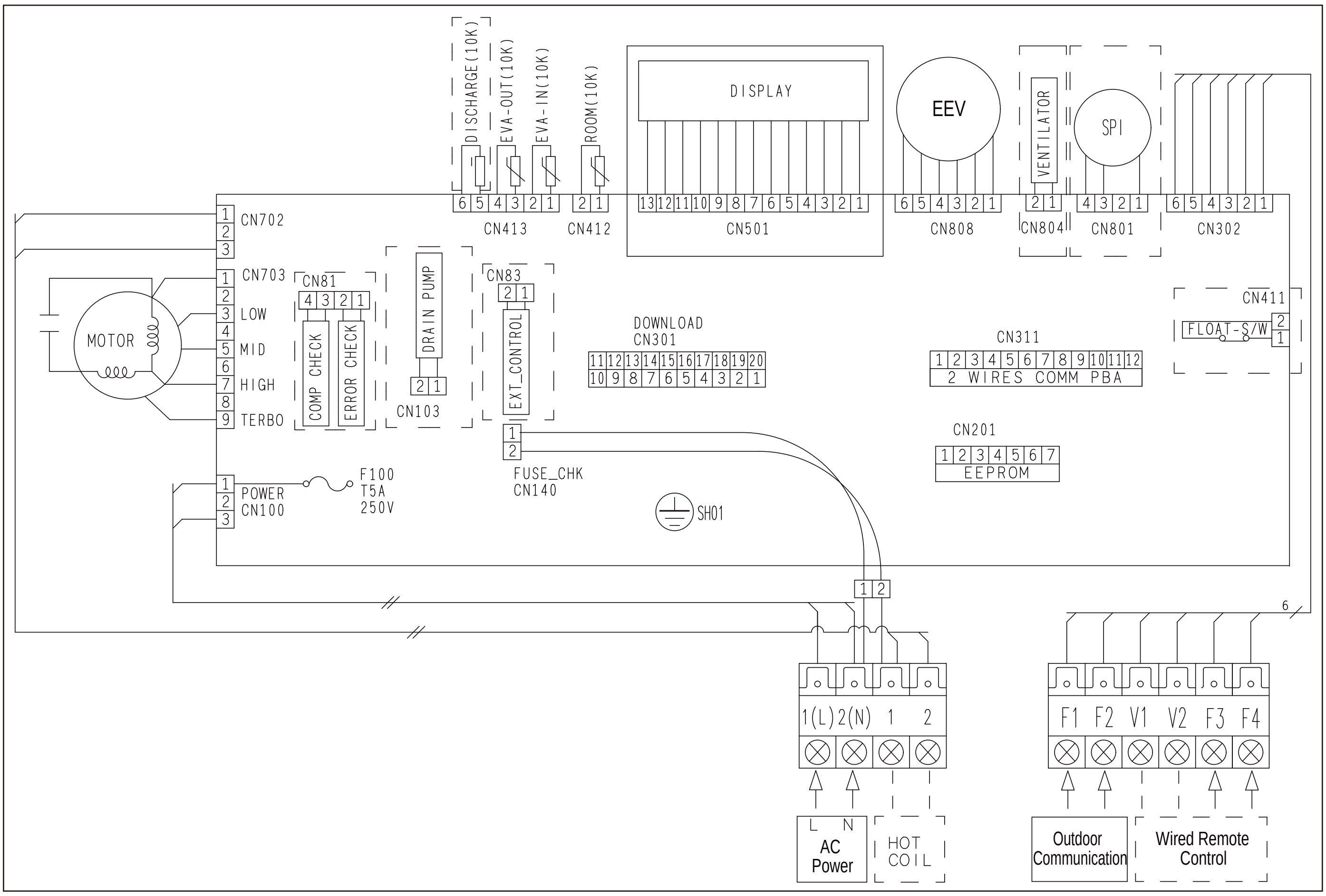
Model	A	B	C
AM036FNFDEH✳✳✳	945	730	700
AM056/071FNFDEH✳✳✳	1,225	1,010	980

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

AM036/056/071FNFDEH/EU

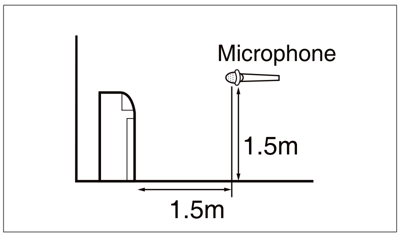


NOTE

1. This wiring diagram applies only to the indoor unit.
2. Symbols show as follow;
   BLK : black, RED : red, BLU : blue, WHT:white, YEL : yellow, BRN : brown, SKY : sky-blue, GRN : green
3. For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remotecontroller transmission F3-F4.
4. : Protective earth(screw), : Connector, n : The wire quantity

5 Sound Pressure Level

Floor Standing



Unit: dB(A)

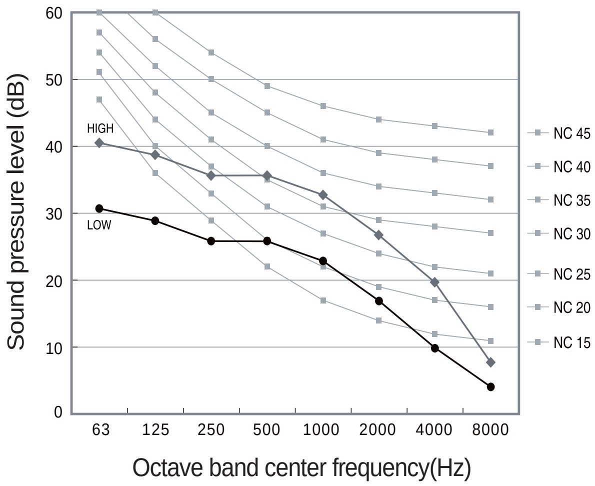
Model	High	Low
AM036FNFDEH/EU	37	27
AM056FNFDEH/EU	40	32
AM071FNFDEH/EU	40	32

Note

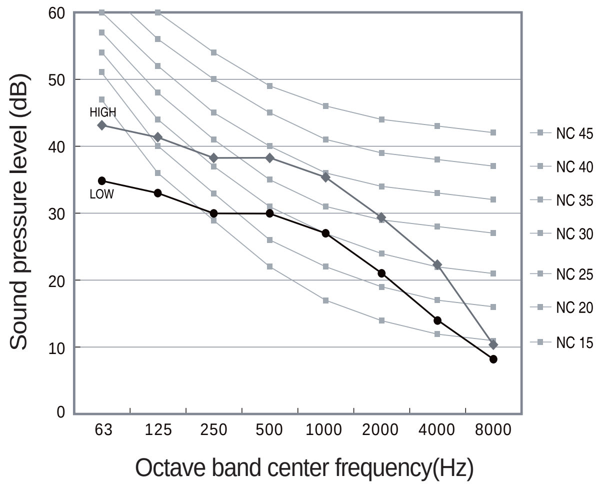
Specifications may be subject to change without prior notice.
Sound pressure level is obtained in an anechoic room.
Sound pressure level is a relative value, depending on the distance and acoustic environment.
Sound pressure level may differ depending on operation condition.
dBA = A-weighted sound pressure level
Reference acoustic pressure 0 dB= 20 uPa

NC curve

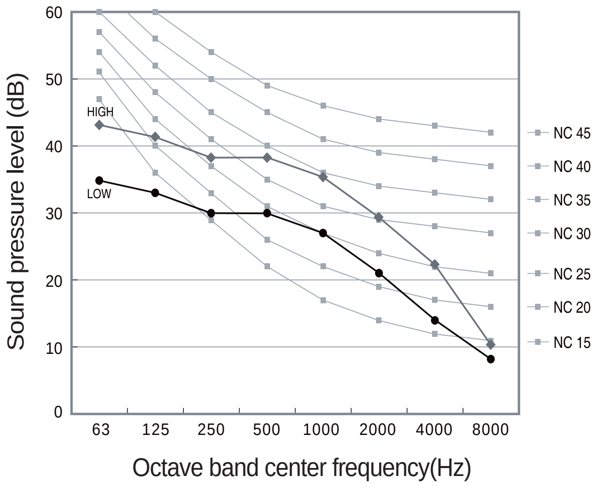
1) AM036FNFDEH/EU



2) AM056FNFDEH/EU



2) AM071FNFDEH/EU



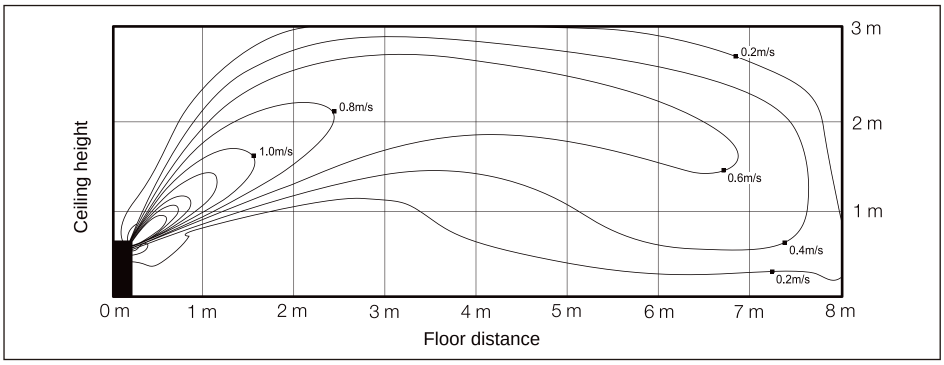
6 Temperature and air flow distribution

Floor Standing

AM036FNFDEH/EU

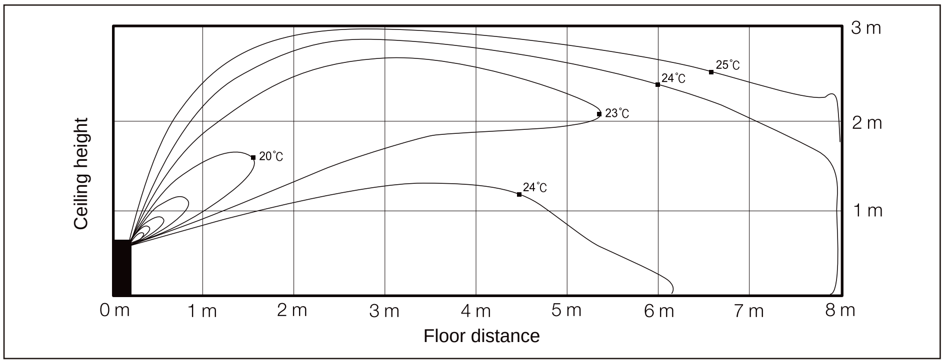
(1) Cooling air velocity distribution

Discharge angle : 36º



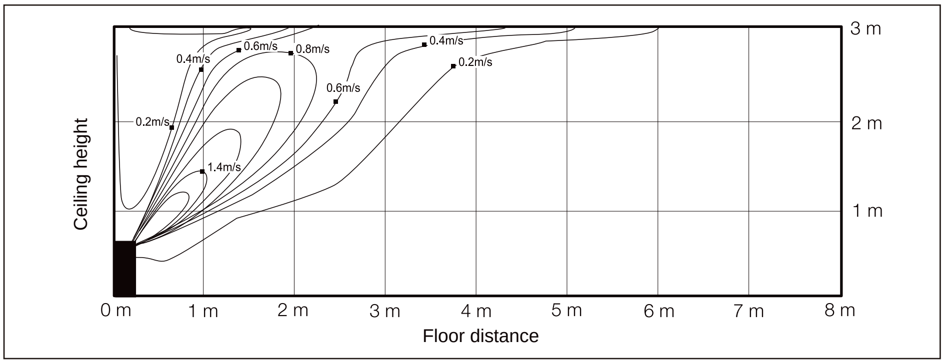
(2) Cooling temperature distribution

Discharge angle : 36º



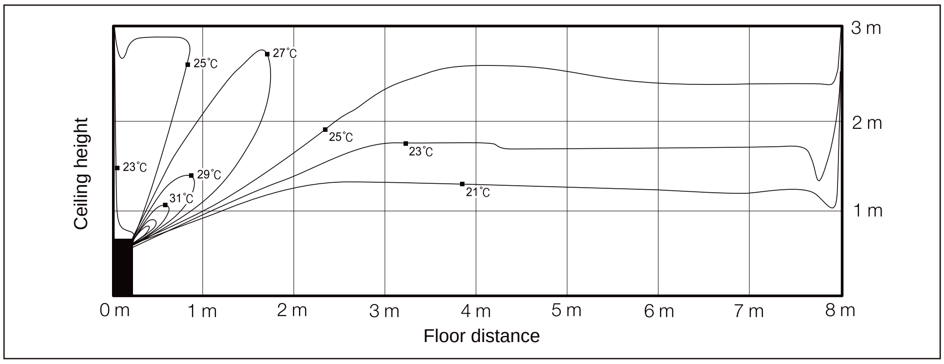
(3) Heating air velocity distribution

Discharge angle : 54º



(4) Heating temperature distribution

Discharge angle : 54º



PAC

1 Specifications

PAC

				PAC	PAC
Type				PAC	PAC
Model				AM140JNPDKH/TK	AM280JNPDKH/TK
Power Supply			Ø, #, V, Hz	1,2,220-240,50/60	1,2,220-240,50
Mode			-	HP/HR	HP/HR
Performance	Capacity (Nominal)	Cooling	kW	14.00	28.00
			Btu/h	47,800	95,500
		Heating	kW	16.00	31.50
			Btu/h	54,600	107,500
Power	Power Input (Nominal)	Cooling	W	190.00	955.00
		Heating		190.00	955.00
	Current Input (Nominal)	Cooling	A	0.90	4.73
		Heating		0.90	4.73
Fan	Motor	Type	-	Sirocco Fan	Sirocco Fan
		Output x n	w	154 x 1	700 x 1
	Air Flow Rate	H/M/L (UL)	CMM	35.00 / 30.50 / 27.50	70.00 / 60.00 / 50.00
			l/s	583.33 / 508.33 / 458.33	1,166.67 / 1,000.00 / 833.33
	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	22.22
			Ø, inch	5/8"	7/8"
	Drain Pipe		Ø, mm	ID18 HOSE	VP25 (OD 32, ID 25)
Field Wiring	Power Source Wire		mm²	2.5	2.5
	Transmission Cable		mm²	VCTF 0.75 - 1.50	VCTF 0.75 - 1.50
Refrigerant	Type		-	R410A	R410A
	Control Method		-	EEV INCLUDED	EEV INCLUDED
Sound	Pressure	High / Low	dB(A)	54 / 47	58 / 54
	Power	Cooling		-	-
Dimension	Net Weight		kg	48.00	115.00
	Shipping Weight		kg	55.00	130.00
	Net Dimensions (WxHxD)		mm	650 x 1,850 x 400	1,100 x 1,800 x 485
	Shipping Dimensions (WxHxD)		mm	705 x 1,963 x 493	1,177 x 1,950 x 563
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		-	-	-

NOTE

1) Mode : HP(Heat Pump), HR(Heat Recovery)
2) Nominal Cooling : Indoor temperature 27ºCDB / 19ºCWB, Outdoor temperature 35ºCDB/24ºCWB, Refrigerant pipe length 7.5m, Level difference 0m.
3) Nominal Heating : Indoor temperature 20ºCDB / 15ºCWB, Outdoor temperature 7ºCDB / 6ºCWB, Refrigerant pipe length 7.5m, Level difference 0m.
4) Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
5) These products contain R410A which is fluorinated greenhouse gas.
6) Specifications may be subject to change without prior notice.
7) In case of AM280JNPDKH/TK, it operates with only 50Hz power supply.

* Heat Exchanger type : Fin & Tube (Fin : Al, Tube : Cu)

PAC

Cooling

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

Model	Outdoor Air Temp. (ºC, DB)	Indoor temperature													
		20 (ºC, DB)		23 (ºC, DB)		26 (ºC, DB)		27 (ºC, DB)		28 (ºC, DB)		30 (ºC, DB)		32 (ºC, DB)	
		14 (ºC, WB)		16 (ºC, WB)		18 (ºC, WB)		19 (ºC, WB)		20 (ºC, WB)		22 (ºC, WB)		24 (ºC, WB)	
		TC(kW)	SHC(kW)	TC(kW)	SHC(kW)	TC(kW)	SHC(kW)	TC(kW)	SHC(kW)	TC(kW)	SHC(kW)	TC(kW)	SHC(kW)	TC(kW)	SHC(kW)
AM140JNPDKH/TK	10	9.70	8.58	11.40	9.69	13.10	10.50	14.00	10.80	14.60	10.90	15.70	11.00	16.80	10.90
	12	9.70	8.58	11.40	9.69	13.10	10.50	14.00	10.80	14.50	10.80	15.60	10.90	16.70	10.80
	14	9.70	8.58	11.40	9.69	13.10	10.50	14.00	10.80	14.50	10.80	15.60	10.90	16.70	10.80
	16	9.70	8.58	11.40	9.69	13.10	10.50	14.00	10.80	14.50	10.80	15.60	10.90	16.60	10.70
	18	9.70	8.58	11.40	9.69	13.10	10.50	14.00	10.80	14.50	10.80	15.50	10.80	16.60	10.70
	20	9.70	8.58	11.40	9.69	13.10	10.50	14.00	10.80	14.50	10.80	15.50	10.80	16.50	10.60
	21	9.70	8.58	11.40	9.69	13.10	10.50	14.00	10.80	14.50	10.80	15.50	10.80	16.50	10.60
	23	9.70	8.58	11.40	9.69	13.10	10.50	14.00	10.80	14.50	10.80	15.50	10.80	16.50	10.60
	25	9.70	8.58	11.40	9.69	13.10	10.50	14.00	10.80	14.50	10.80	15.50	10.80	16.50	10.60
	27	9.70	8.58	11.40	9.69	13.10	10.50	14.00	10.80	14.50	10.80	15.50	10.80	16.50	10.60
	29	9.70	8.58	11.40	9.69	13.10	10.50	14.00	10.80	14.50	10.80	15.50	10.80	16.50	10.60
	31	9.70	8.58	11.40	9.69	13.10	10.50	14.00	10.80	14.50	10.80	15.50	10.80	16.50	10.60
	33	9.70	8.58	11.40	9.69	13.10	10.50	14.00	10.80	14.50	10.80	15.50	10.80	16.50	10.60
	35	9.70	8.58	11.40	9.69	13.10	10.50	14.00	10.80	14.50	10.80	15.50	10.80	16.50	10.60
	37	9.70	8.58	11.40	9.69	13.10	10.50	14.00	10.80	14.50	10.80	15.40	10.70	16.30	10.50
	39	9.70	8.58	11.40	9.69	13.10	10.50	14.00	10.80	14.40	10.70	15.10	10.50	15.90	10.30
AM280JNPDKH/TK	10	19.70	17.60	23.30	19.60	26.50	21.20	28.00	21.80	29.90	22.60	32.70	23.00	34.70	23.20
	12	19.70	17.60	23.30	19.60	26.50	21.20	28.00	21.80	29.90	22.80	32.70	23.10	34.70	23.40
	14	19.70	17.60	23.30	19.60	26.50	21.20	28.00	21.80	29.90	22.80	32.70	23.10	34.70	23.00
	16	19.70	17.60	23.30	19.60	26.50	21.20	28.00	21.80	29.90	22.80	32.70	23.10	34.70	23.30
	18	19.70	17.60	23.30	19.60	26.50	21.20	28.00	21.80	29.90	22.80	32.70	23.00	34.70	23.10
	20	19.70	17.60	23.30	19.60	26.50	21.20	28.00	21.80	29.90	22.80	32.70	23.00	34.30	23.00
	21	19.70	17.60	23.30	19.60	26.50	21.20	28.00	21.80	29.90	22.80	32.70	23.00	34.30	22.90
	23	19.70	17.60	23.30	19.60	26.50	21.20	28.00	21.80	29.90	22.80	32.70	23.20	33.70	22.60
	25	19.70	17.60	23.30	19.60	26.50	21.20	28.00	21.80	29.90	22.80	32.70	23.00	33.70	22.80
	27	19.70	17.60	23.30	19.60	26.50	21.20	28.00	21.80	29.90	22.80	32.70	23.00	33.70	22.80
	29	19.70	17.60	23.30	19.60	26.50	21.20	28.00	21.80	29.90	22.80	32.70	23.00	33.70	22.80
	31	19.70	17.60	23.30	19.60	26.50	21.20	28.00	21.80	29.90	22.80	32.70	23.20	33.70	22.80
	33	19.70	17.60	23.30	19.60	26.50	21.20	28.00	21.80	29.90	22.80	32.70	23.50	33.70	22.80
	35	19.70	17.60	23.30	19.60	26.50	21.20	28.00	21.80	29.90	22.60	32.70	23.50	33.70	23.00
	37	19.40	17.30	23.00	19.30	26.30	20.90	28.00	21.80	29.70	22.70	32.20	23.10	33.20	22.50
	39	19.20	17.10	22.70	19.10	26.30	20.90	27.90	21.60	29.50	22.50	31.80	23.40	32.80	22.40

2 Capacity Table

PAC

Heating

TC : Total Capacity(kW)

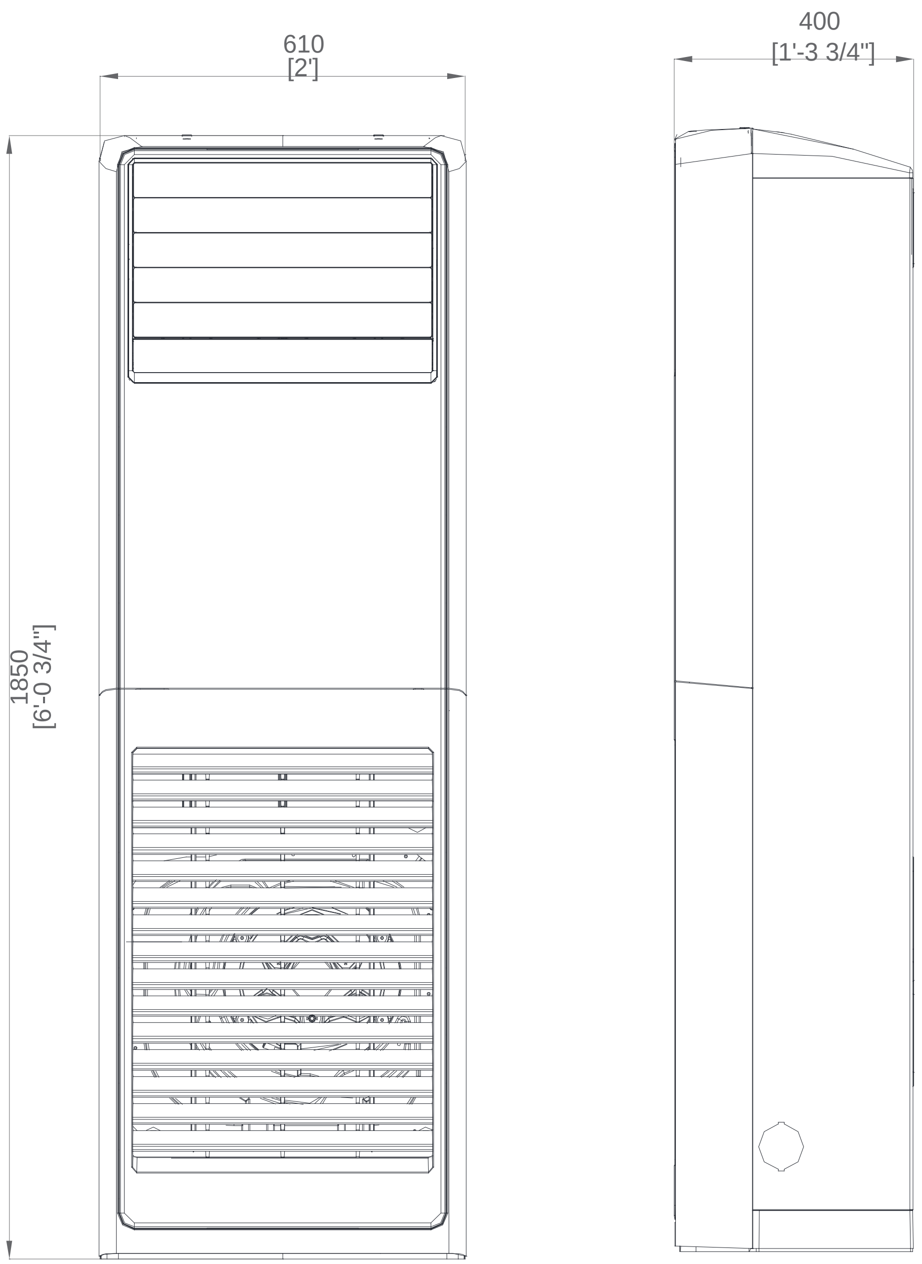
Model	Outdoor Air Temp. (ºC)		Indoor temperature				
			16 (ºC, WB)	18 (ºC, WB)	20 (ºC, WB)	22 (ºC, WB)	24 (ºC, WB)
	DB	WB	TC(kW)	TC(kW)	TC(kW)	TC(kW)	TC(kW)
AM140JNPDKH/TK	-20	-20	9.54	9.53	9.41	9.41	9.31
	-19	-19	9.74	9.66	9.48	9.48	9.34
	-17	-17	10.19	9.98	9.68	9.63	9.41
	-15	-15	10.75	10.46	10.17	9.88	9.58
	-13	-13	11.10	10.88	10.66	10.44	10.14
	-10	-11	11.58	11.45	11.25	11.12	10.90
	-10	-10	11.82	11.70	11.52	11.38	11.17
	-8	-9	12.05	11.90	11.75	11.55	11.30
	-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
AM280JNPDKH/TK	-20	-20	25.40	24.40	23.00	22.00	21.10
	-19	-19	25.60	24.60	23.20	22.30	21.60
	-17	-17	26.20	25.10	23.70	23.00	22.60
	-15	-15	27.20	26.10	24.70	23.90	23.50
	-13	-13	28.40	27.30	25.80	24.90	24.50
	-10	-11	30.40	29.20	27.50	26.40	26.00
	-10	-10	31.10	29.80	28.10	27.00	26.60
	-8	-9	31.40	30.10	28.40	27.40	26.90
	-7	-8	31.80	30.50	28.80	27.90	27.30
	-5	-6	32.70	31.50	29.70	29.00	28.10
	-3	-4	33.50	32.20	30.40	29.80	28.70
	0	-1	34.30	33.10	31.10	30.40	29.30
	3	2	35.00	33.70	31.50	30.40	29.50
	5	4	35.30	33.70	31.50	30.40	29.50
	7	6	35.70	33.70	31.50	30.40	29.50
	9	8	35.70	33.70	31.50	30.40	29.50
	11	10	35.70	33.70	31.50	30.40	29.50
	13	12	35.70	33.70	31.50	30.40	29.50
	15	14	35.70	33.70	31.50	30.40	29.50

3 Dimensional Drawing

PAC

AM140JNPDKH/TK

[Unit : mm]



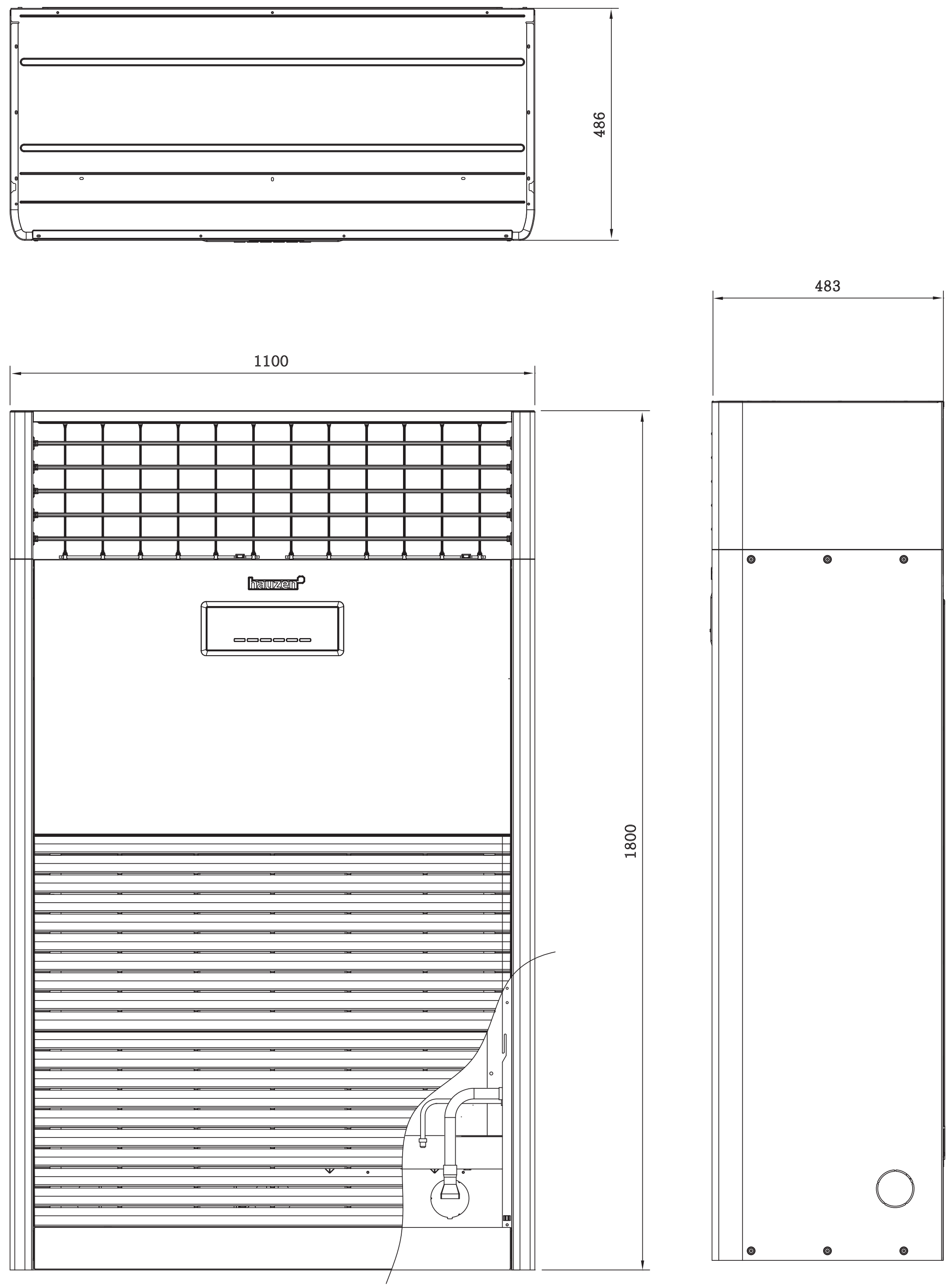
No.	Name	Description
1	Refrigerant gas pipe	Ø15.88 Flare
2	Refrigerant liquid pipe	Ø9.52 Flare
3	Drain pipe connection	-

3 Dimensional Drawing

PAC

AM280JNPDKH/TK

[Unit : mm]

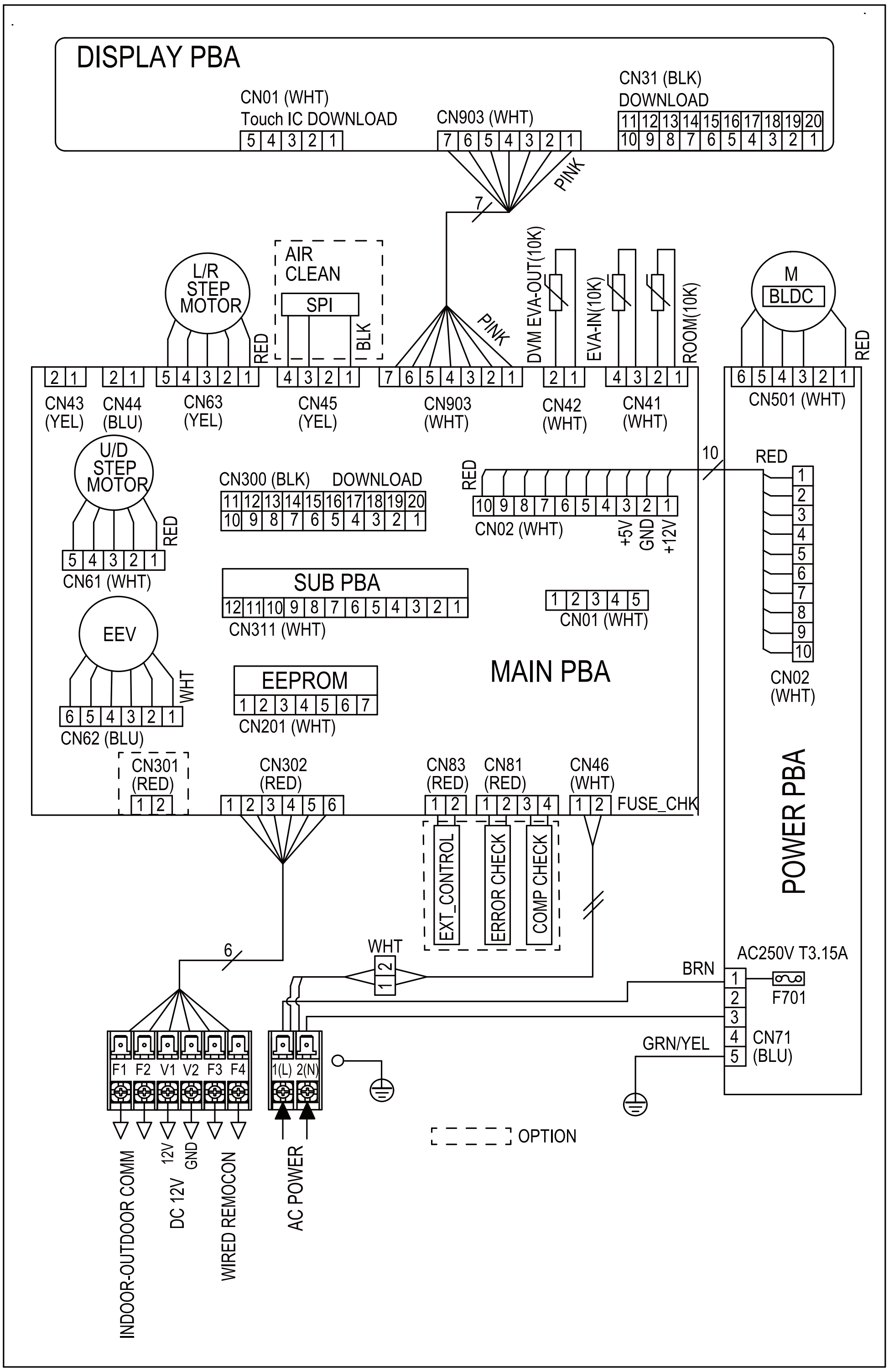


Name	Description
Refrigerant gas pipe	Φ22.22 Flare
Refrigerant liquid pipe	Φ9.52 Flare
Drain pipe connection	VP25 (OD 32, ID 25)

4 Electrical Wiring Diagram

PAC

AM140JNPDKH/TK

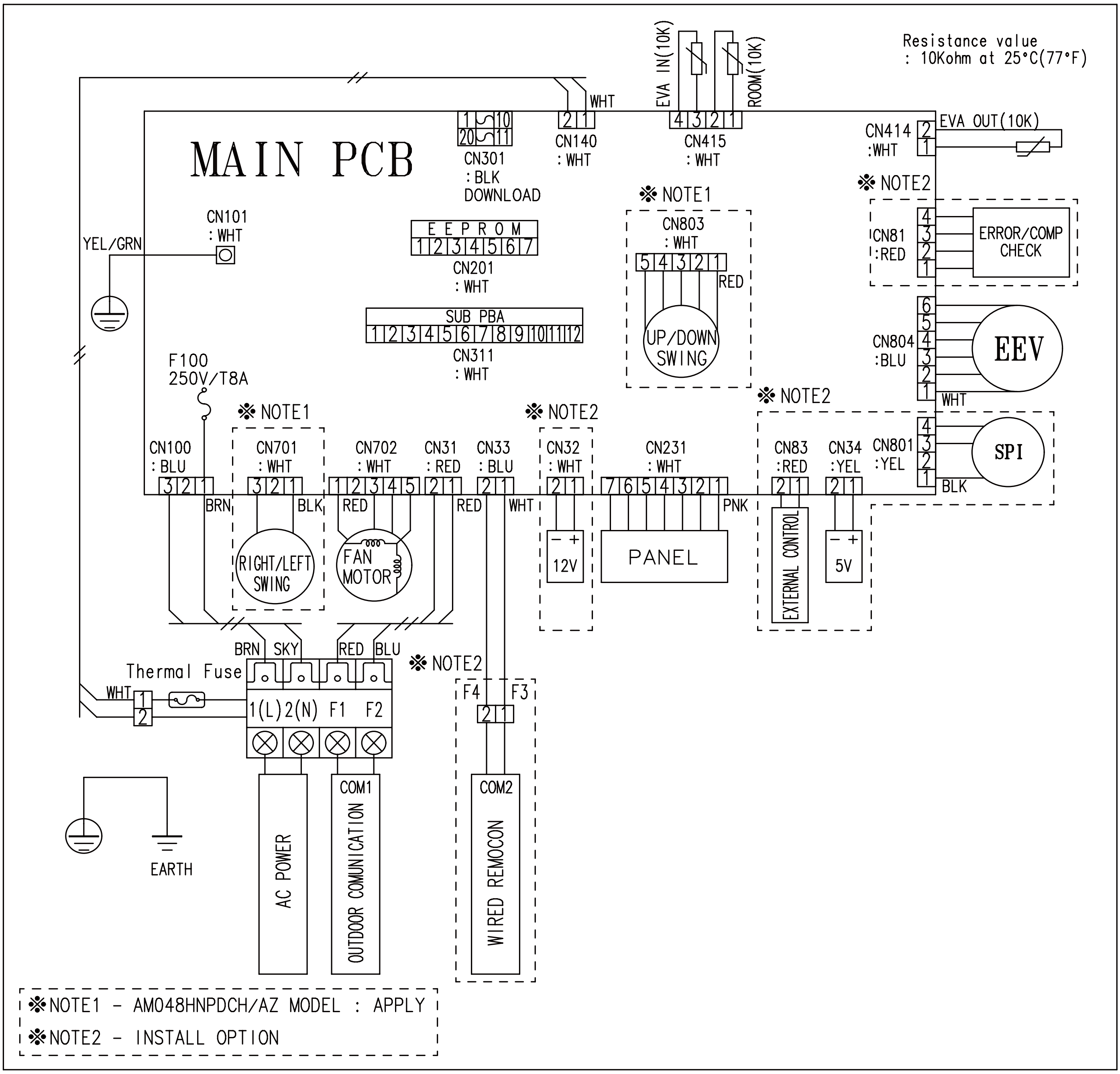


NOTE

1. This wiring diagram applies only to the indoor unit.
2. Symbols show as follow;
   BLK : black, RED : red, BLU : blue, WHT:white, YEL : yellow, BRN : brown, SKY : sky-blue, GRN : green
3. For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remotecontroller transmission F3-F4.
4. : Protective earth(screw), : Connector, n : The wire quantity

PAC

AM280JNPDKH/TK

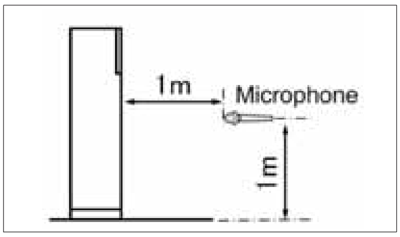


NOTE

1. This wiring diagram applies only to the indoor unit.
2. Symbols show as follow;
   BLK : black, RED : red, BLU : blue, WHT:white, YEL : yellow, BRN : brown, SKY : sky-blue, GRN : green
3. For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remotecontroller transmission F3-F4.
4. : Protective earth(screw), : Connector, n : The wire quantity

5 Sound Pressure Level

PAC



Unit: dB(A)

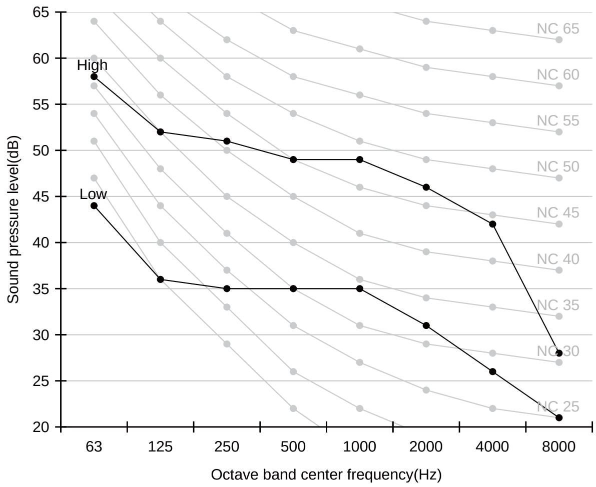
Model	High	Low
AM140JNPDKH/TK	54	47
AM280JNPDKH/TK	58	54

Note

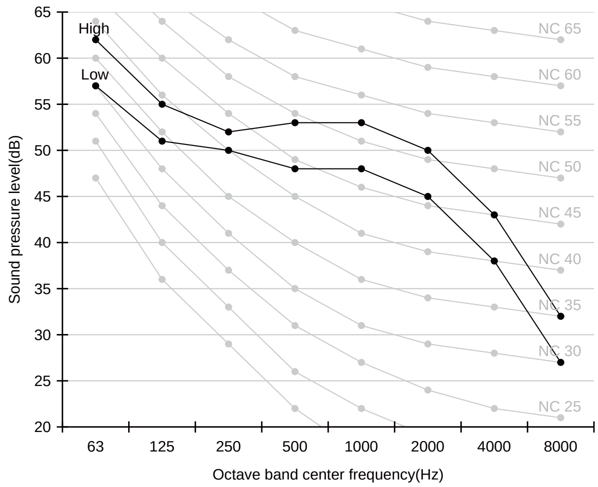
Specifications may be subject to change without prior notice.
Sound pressure level is obtained in an anechoic room.
Sound pressure level is a relative value, depending on the distance and acoustic environment.
Sound pressure level may differ depending on operation condition.
dBA = A-weighted sound pressure level
Reference acoustic pressure 0 dB= 20 uPa

NC curve

1) AM140JNPDKH/TK



2) AM280JNPDKH/TK



ERV Plus

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	138.9/138.9/100	277.8/277.8/191.7
	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	W	220	510
			high		140	350
			low		90	235
	Current Input		Turbo	A	1.70	3.70
			high		1.00	2.40
			low		0.60	1.60
Option Code				-	015617152380	0156171C2373
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	dBA	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.

* Heat Exchanger type : Fin & Tube (Fin : Al, Tube : Cu)

2 Capacity table

ERV Plus

1) Cooling

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

Model	Outdoor temperature (℃)		Indoor temperature													
			20 (℃, DB) 14 (℃, WB)		23 (℃, DB) 16 (℃, WB)		26 (℃, DB) 18 (℃, WB)		27 (℃, DB) 19 (℃, WB)		28 (℃, DB) 20 (℃, WB)		30 (℃, DB) 22 (℃, WB)		32 (℃, DB) 24 (℃, 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

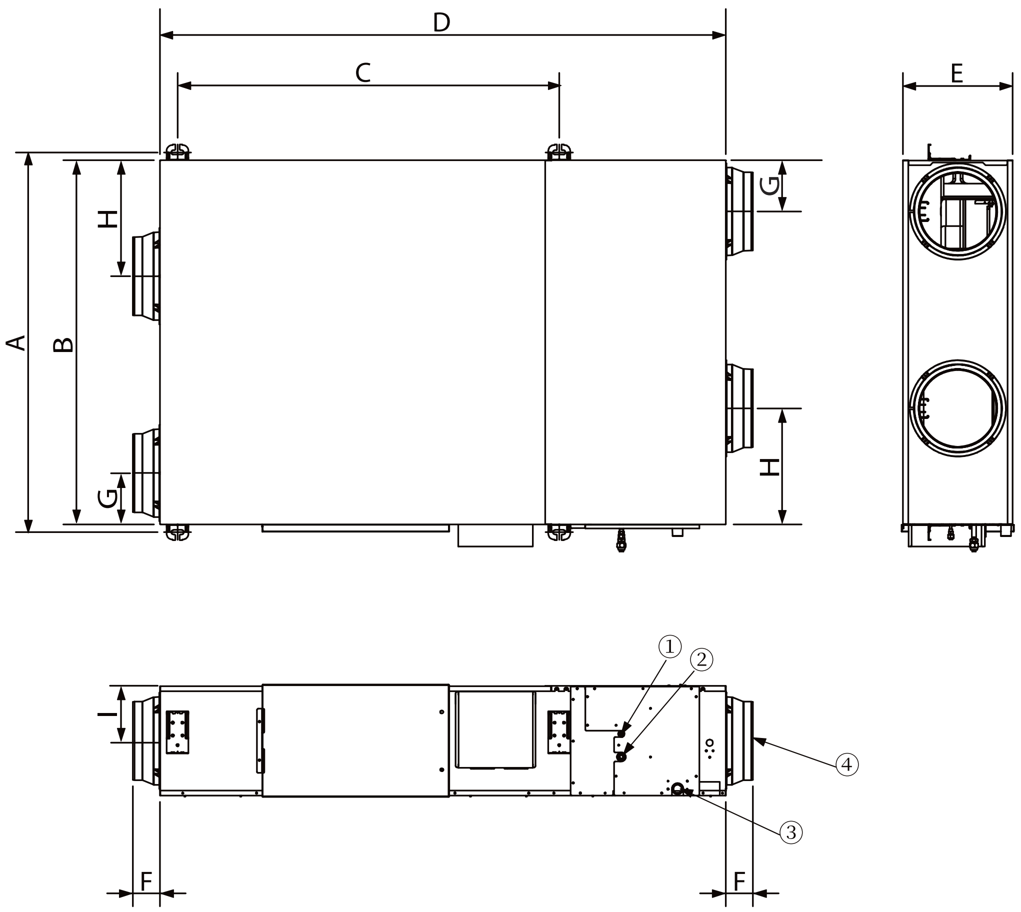
TC : Total Capacity(kW)

Model	Outdoor temperature (℃)		Indoor temperature (℃, DB)				
			16.0	18.0	20.0	22.0	24.0
			TC	TC	TC	TC	TC
	DB	WB	kW	kW	kW	kW	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



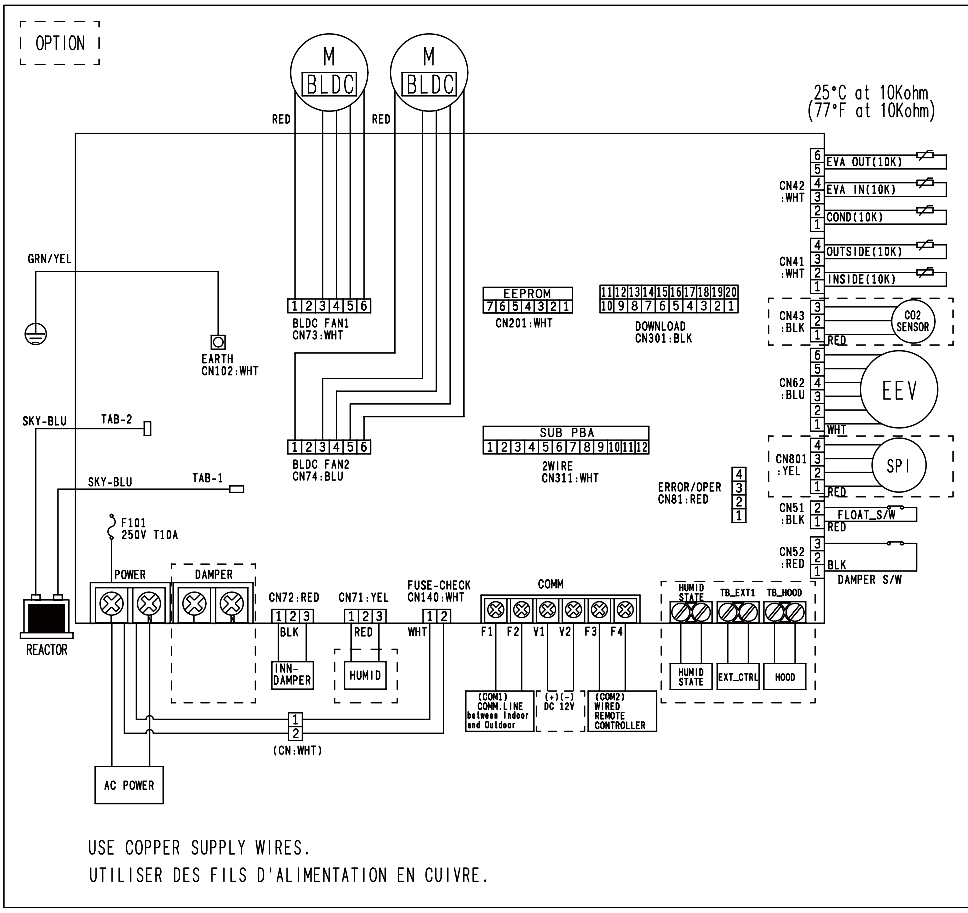
Model	A	B	C	D	E	F	G	H	I
AM050FNKDEH	1036	1000	987	1553	270	99	130	253	135
AM100FNKDEH	1183	1135	1189	1763	340	84	160	362	170

<table>
<tr><th rowspan="2">No.</th><th rowspan="2" colspan="2">Name</th><th colspan="2">Description</th></tr>
<tr><th>500CMH</th><th>1000CMH</th></tr>
<tr><td>①</td><td colspan="2">Liquid pipe connection</td><td colspan="2">Ø6.35 (1/4”)</td></tr>
<tr><td>②</td><td colspan="2">Gas pipe connection</td><td colspan="2">Ø12.70 (1/2”)</td></tr>
<tr><td>③</td><td colspan="2">Drain pipe connection</td><td colspan="2">VP25 (OD32, ID25)</td></tr>
<tr><td rowspan="2">④</td><td rowspan="2">Nominal diameter for duct</td><td>AM050FNKDEH</td><td colspan="2">Ø200</td></tr>
<tr><td>AM100FNKDEH</td><td colspan="2">Ø250</td></tr>
</table>

4 Electrical Wiring Diagram

ERV Plus

AM050/100FNKDEH/EU



*ERROR CODE

E101	No Communication between indoor unit and outdoor unit
E102	Indoor unit receiving the Communication error from outdoor unit
E121	Error of Indoor Temp. Sensor(Open/Short)
E122	Error of EVA-IN Sensor(Open/Short)
E123	Error of EVA-OUT Sensor(Open/Short)
E128	Breakaway of EVA-IN Sensor
E129	Breakaway of EVA-OUT Sensor
E139	Error of CO2 Sensor(Open/Short)
E151	Error of EEV open
E152	Error of EEV close
E161	Error of mixed operation
E162	EEPROM ERROR
E163	EEPROM option setting error
E174	Error of AIR Sensor(Open/Short)
E175	Error of Indoor's Out Temp. Sensor(Open/Short)
E186	SPI Error
E198	Error of FUSE CHECK(OPEN)
E201	Communication error from outdoor unit due to the mismatching of the communication numbers and installed numbers after tracking
E561	Error of Supply Air Fan Motor
E562	Error of Exhaust Air Fan Motor
E654	Damper ERROR

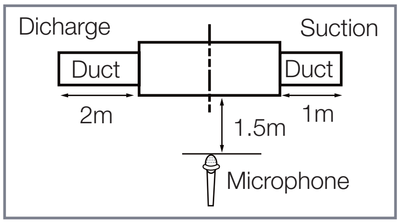
NOTE

1. This wiring diagram applies only to the indoor unit.
2. Symbols show as follow;
   BLK : black, RED : red, BLU : blue, WHT:white, YEL : yellow, BRN : brown, SKY : sky-blue, GRN : green
3. For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remotecontroller transmission F3-F4.
4. ⏚ : Protective earth(screw), ☐☐☐☐ : Connector, n : The wire quantity

5 Sound pressure level

ERV Plus

1) Operation sound level



Unit : dB(A)

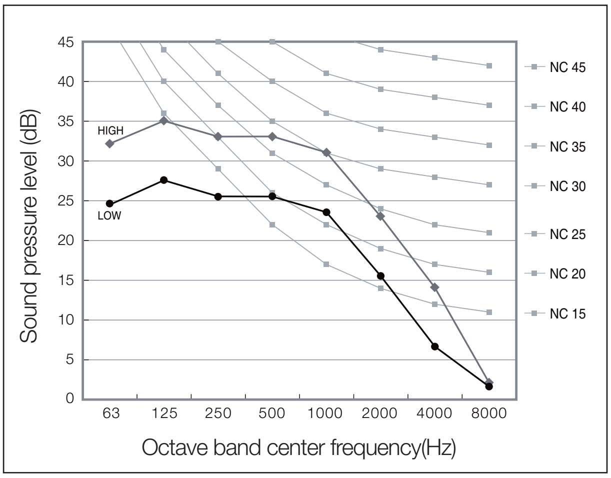
Model	Turbo	High	Low
AM050FNKDEH✳✳✳	36	32	28
AM100FNKDEH✳✳✳	36	33	31

Note

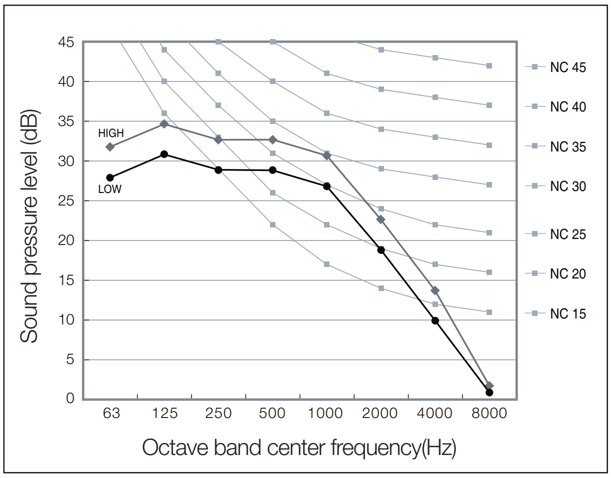
Specifications may be subject to change without prior notice.
Sound pressure level is obtained in an anechoic room.
Sound pressure level is a relative value, depending on the distance and acoustic environment.
Sound pressure level may differ depending on operation condition.
dBA = A-weighted sound pressure level
Reference acoustic pressure 0 dB= 20 uPa

2) NC curves

(1) AM050FNKDEH***



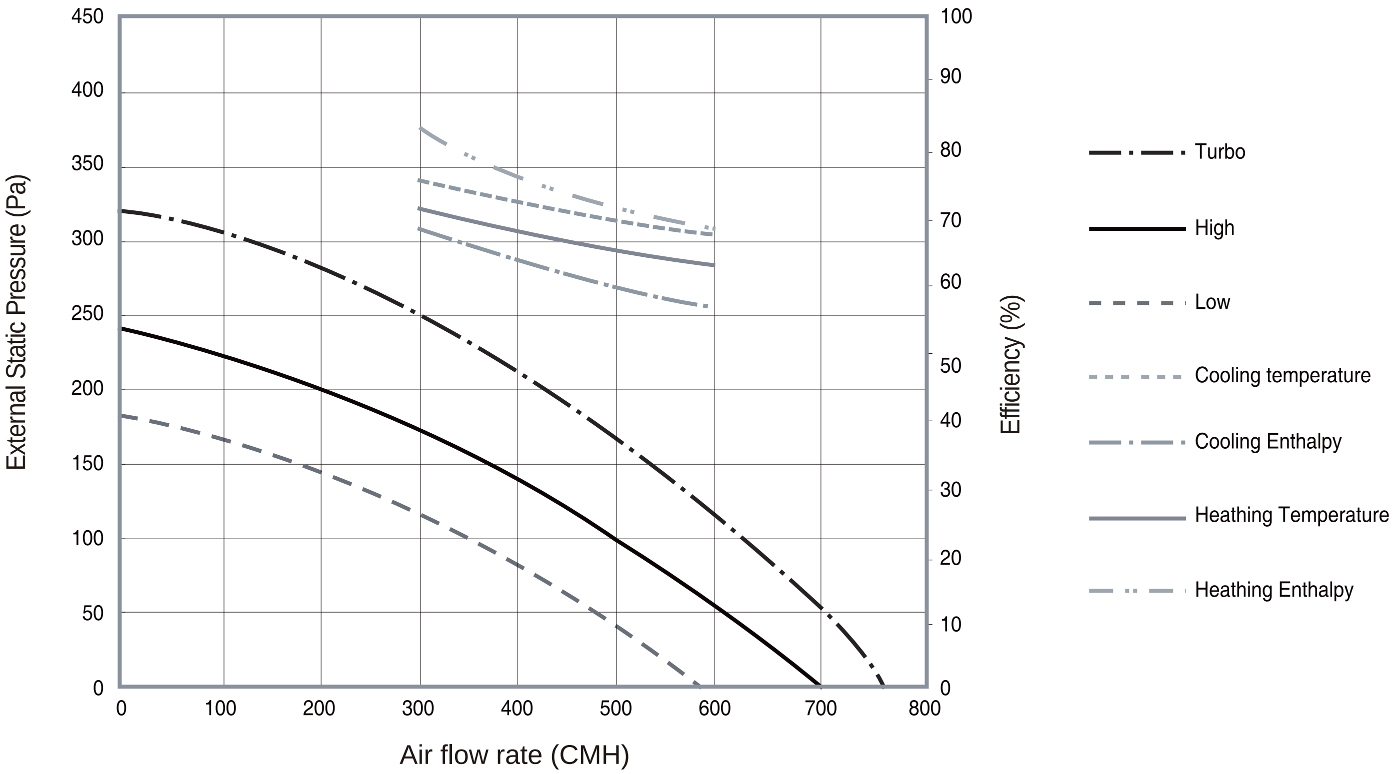
(2) AM100FNKDEH***



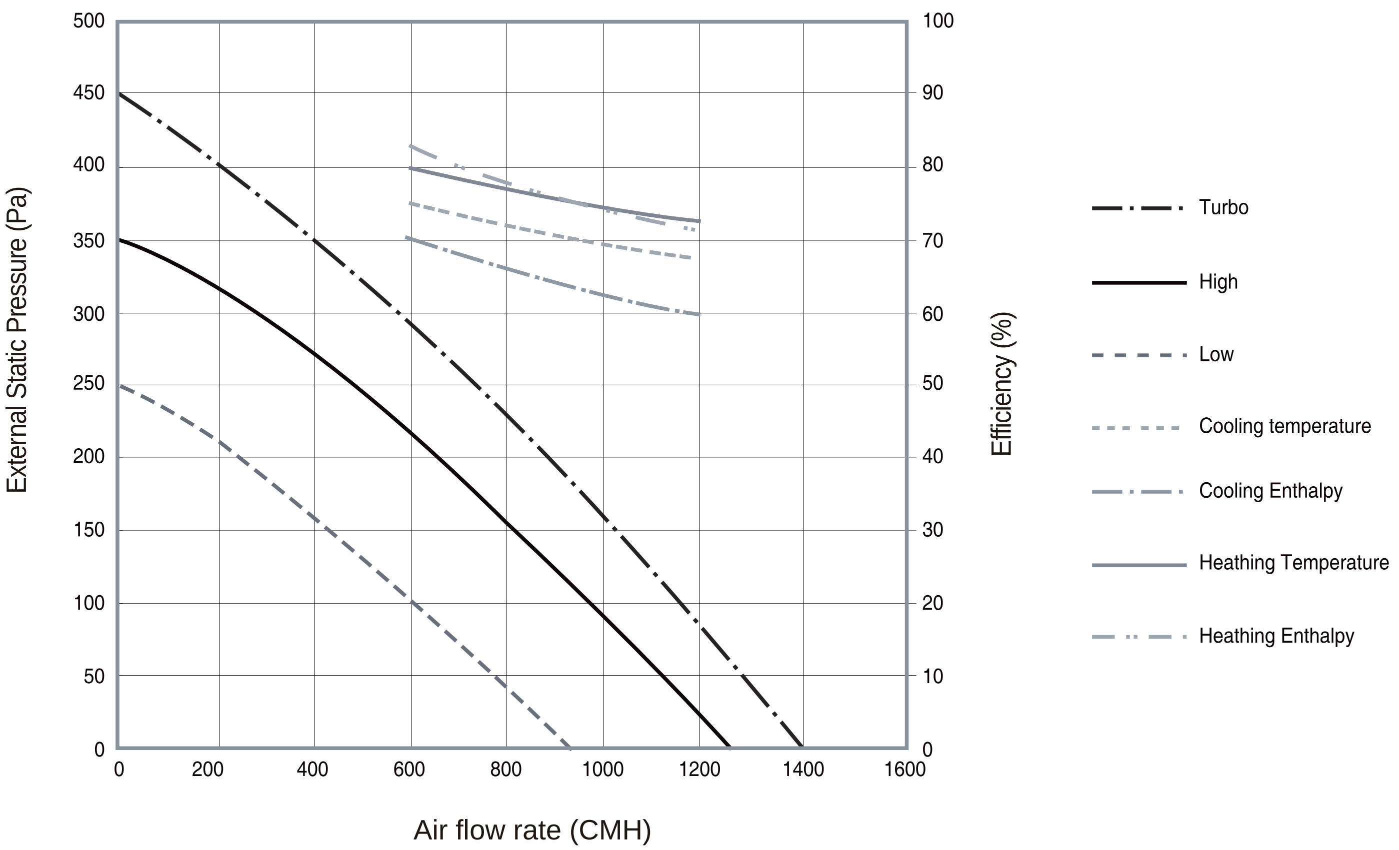
6 Fan Characteristics

ERV Plus

1) AM050FNKDEH/EU



2) AM100FNKDEH/EU



Hydro Unit HE

1 Specifications

Hydro Unit 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 × n	-	-	-
	Model Name		-	-	-	-
	Oil	Type	-	-	-	-
		Initial Charge	cc	-	-	-
Heat Exchanger	Type		-	PHE	PHE	PHE
	Quantity		-	1	1	1
	Pipe Size		Ø, inch	PT 1 (25A)	PT 1 (25A)	PT 1-1/4 (32A)
	Water Flow Rate		LPM	48	92	150
	Flow Switch		LPM	20	30	50
Option Code			-	01004C-105000-208C8C-332200	01004C-105000-231C1C-332200	01004C-105000-232D2D-332200
Piping Connections	Liquid Pipe		Ø, mm	9.52	9.52	12.7
			Ø, inch	3/8”	3/8”	1/2”
	Gas Pipe		Ø, mm	15.88	22.2	28.58
			Ø, inch	5/8”	7/8”	1 1/8”
	Drain Pipe		Ø,mm	-	-	-
FieldWiring	Power Source Wire (L<10m, Single Installation)		mm2	2.5	2.5	2.5
	Transmission Cable		mm2	0.75 ~ 1.5	0.75 ~ 1.5	0.75 ~ 1.5
Refrigerant	Type		-	-	-	-
	Control Method		-	EEV	EEV	EEV
Sound	Sound Pressure *3)		dB(A)	27	28	31
	Sound Power			-	-	-
Dimensions	Net Weight		kg	29.00	33.00	40.00
	Shipping Weight		kg	31.00	35.00	42.00
	Net Dimensions (W×H×D)		mm	518 x 627 x 330	518 x 627 x 330	518 x 627 x 330
	Shipping Dimensions (W×H×D)		mm	652 x 700 x 426	652 x 700 x 426	652 x 700 x 426
Operating Temp. Range	Ambient	Cooling	˚C	-5.0 ~ 48.0	-5.0 ~ 48.0	-5.0 ~ 48.0
		Heating	˚C	−20 ~ 35	−20 ~ 35	−20 ~ 35
		Hot Water (Main Cooling, HR)	˚C	−20.0 ~ 35(43)	−20.0 ~ 35(43)	−20.0 ~ 35(43)
	Leaving Water	Cooling	˚C	5.0 ~ 30.0	5.0 ~ 30.0	5.0 ~ 30.0
		Heating	˚C	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.

* Heat Exchanger type : Plate Heat Exchanger (STS)

2 Capacity table

Hydro Unit HE

1) Cooling

Capacity (kW)	Outdoor temp.(ºC)	Water inlet temp.(ºC)					
	DB	10	15	20	23	25	30
14	-5	11.2	12.6	14.5	15.3	15.8	16.6
	-3	11.2	12.6	14.5	15.3	15.8	16.6
	-1	11.2	12.6	14.5	15.3	15.8	16.6
	0	11.2	12.6	14.5	15.3	15.8	16.6
	2	11.2	12.6	14.5	15.3	15.8	16.6
	4	11.2	12.6	14.5	15.3	15.8	16.6
	6	11.2	12.6	14.5	15.3	15.8	16.6
	8	11.2	12.6	14.5	15.3	15.8	16.6
	10	11.2	12.6	14.5	15.3	15.8	16.6
	12	11.2	12.6	14.5	15.3	15.8	16.6
	14	11.2	12.6	14.5	15.3	15.8	16.6
	16	11.2	12.6	14.5	15.3	15.8	16.6
	18	11.2	12.6	14.5	15.3	15.8	16.6
	20	11.2	12.6	14.5	15.3	15.8	16.6
	22	11.2	12.6	14.5	15.3	15.8	16.4
	24	11.2	12.6	14.3	15.1	15.6	16.2
	26	11.2	12.4	14.1	14.9	15.4	16.0
	28	10.8	12.2	14.0	14.7	15.1	15.8
	30	10.4	12.0	13.8	14.5	14.9	15.6
	32	10.1	11.8	13.6	14.3	14.7	15.5
	34	9.7	11.6	13.4	14.1	14.5	15.3
	35	9.5	11.5	13.4	14.0	14.4	15.2
	36	9.3	11.4	13.3	13.9	14.3	15.1
	38	8.9	11.2	13.1	13.7	14.1	14.9
	40	8.6	11.0	13.0	13.5	13.8	14.7
28	-5	22.4	28.0	30.9	32.8	34.0	35.3
	-3	22.4	28.0	30.9	32.8	34.0	35.3
	-1	22.4	28.0	30.9	32.8	34.0	35.3
	0	22.4	28.0	30.9	32.8	34.0	35.3
	2	22.4	28.0	30.9	32.8	34.0	35.3
	4	22.4	28.0	30.9	32.8	34.0	35.3
	6	22.4	28.0	30.9	32.8	34.0	35.3
	8	22.4	28.0	30.9	32.8	34.0	35.3
	10	22.4	28.0	30.9	32.8	34.0	35.3
	12	22.4	28.0	30.9	32.8	34.0	35.3
	14	22.4	28.0	30.9	32.8	34.0	35.3
	16	22.4	28.0	30.9	32.8	34.0	35.3
	18	22.4	28.0	30.9	32.8	34.0	35.3
	20	22.4	28.0	30.9	32.8	34.0	35.3
	22	22.4	28.0	30.9	32.8	34.0	34.7
	24	22.4	28.0	30.3	32.0	33.2	34.0
	26	22.4	27.2	29.7	31.3	32.4	33.3
	28	21.6	26.5	29.0	30.5	31.5	32.5
	30	20.9	25.7	28.4	29.8	30.7	31.8
	32	20.1	24.9	27.8	29.1	29.9	31.1
	34	19.4	24.2	27.2	28.3	29.1	30.4
	35	19.0	23.8	26.9	28.0	28.7	30.1
	36	18.6	23.4	26.6	27.6	28.3	29.7
	38	17.9	22.7	26.0	26.8	27.4	28.9
	40	17.2	21.9	25.4	26.1	26.5	28.2
44.8	-5	35.8	40.3	46.3	48.8	50.5	53.1
	-3	35.8	40.3	46.3	48.8	50.5	53.1
	-1	35.8	40.3	46.3	48.8	50.5	53.1
	0	35.8	40.3	46.3	48.8	50.5	53.1
	2	35.8	40.3	46.3	48.8	50.5	53.1
	4	35.8	40.3	46.3	48.8	50.5	53.1
	6	35.8	40.3	46.3	48.8	50.5	53.1
	8	35.8	40.3	46.3	48.8	50.5	53.1
	10	35.8	40.3	46.3	48.8	50.5	53.1
	12	35.8	40.3	46.3	48.8	50.5	53.1
	14	35.8	40.3	46.3	48.8	50.5	53.1
	16	35.8	40.3	46.3	48.8	50.5	53.1
	18	35.8	40.3	46.3	48.8	50.5	53.1
	20	35.8	40.3	46.3	48.8	50.5	53.1
	22	35.8	40.3	46.3	48.8	50.5	52.4
	24	35.8	40.3	45.8	48.2	49.8	51.8
	26	35.8	39.7	45.3	47.6	49.2	51.3
	28	34.6	39.0	44.7	47.0	48.5	50.7
	30	33.4	38.4	44.2	46.4	47.8	50.1
	32	32.2	37.7	43.7	45.7	47.1	49.5
	34	31.0	37.1	43.1	45.1	46.4	48.9
	35	30.4	36.8	42.9	44.8	46.1	48.6
	36	29.8	36.4	42.6	44.5	45.7	48.3
	38	28.6	35.8	42.0	43.8	45.0	47.7
	40	27.4	35.1	41.4	43.1	44.3	47.1

Hydro Unit HE

2) Heating

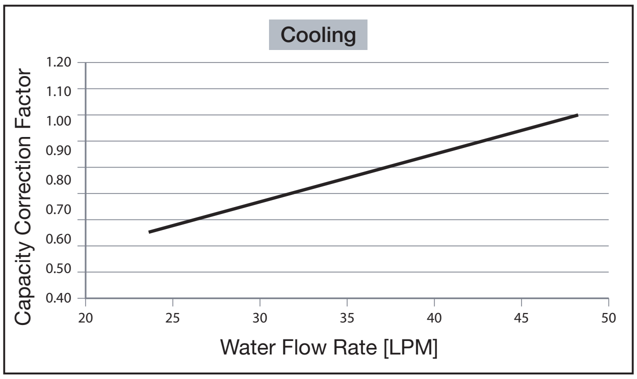
Capacity (kW)	Outdoor temp.(ºC)		Water inlet temp.(ºC)			
	DB	WB	20	30	40	45
16	-20.0	-20.2	12.4	11.7	7.2	4.7
	-17.5	-17.8	12.9	12.1	8.1	5.8
	-15.0	-15.3	13.4	12.5	8.9	6.8
	-12.5	-13.0	13.9	12.9	9.8	7.7
	-10.0	-10.5	14.3	13.3	10.6	8.6
	-7.5	-8.1	14.8	13.7	11.5	9.1
	-5.0	-5.6	15.3	14.1	12.3	9.6
	-2.5	-3.3	15.8	14.5	12.6	9.6
	0.0	-0.7	16.3	14.9	12.8	9.6
	2.5	1.7	16.8	15.3	12.8	9.6
	5.0	4.1	17.2	15.7	12.8	9.6
	7.0	6.0	17.6	16.0	12.8	9.6
	10.0	8.9	17.6	16.0	12.8	9.6
	12.5	11.3	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
	-17.5	-17.8	26.0	24.5	16.3	10.0
	-15.0	-15.3	27.5	25.8	18.4	12.0
	-12.5	-13.0	29.0	27.2	20.6	14.1
	-10.0	-10.5	30.5	28.6	22.7	16.2
	-7.5	-8.1	32.1	30.0	24.9	17.6
	-5.0	-5.6	33.6	31.4	27.0	18.9
	-2.5	-3.3	33.7	31.5	27.7	18.9
	0.0	-0.7	33.8	31.5	28.4	18.9
	2.5	1.7	33.9	31.5	28.4	18.9
	5.0	4.1	33.9	31.5	28.4	18.9
	7.0	6.0	34.1	31.5	28.4	18.9
	10.0	8.9	34.1	31.5	28.4	18.9
	12.5	11.3	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
	-17.5	-17.8	40.6	38.2	25.4	18.3
	-15.0	-15.3	42.1	39.4	28.1	21.3
	-12.5	-13.0	43.7	40.7	30.7	24.3
	-10.0	-10.5	45.2	42.0	33.3	27.2
	-7.5	-8.1	46.7	43.3	36.0	28.7
	-5.0	-5.6	48.2	44.5	38.6	30.2
	-2.5	-3.3	49.7	45.8	39.5	30.2
	0.0	-0.7	51.2	47.1	40.3	30.2
	2.5	1.7	52.7	48.4	40.3	30.2
	5.0	4.1	54.2	49.6	40.3	30.2
	7.0	6.0	55.4	50.4	40.3	30.2
	10.0	8.9	55.4	50.4	40.3	30.2
	12.5	11.3	55.4	50.4	40.3	30.2
	15.0	13.7	55.4	50.4	40.3	30.2

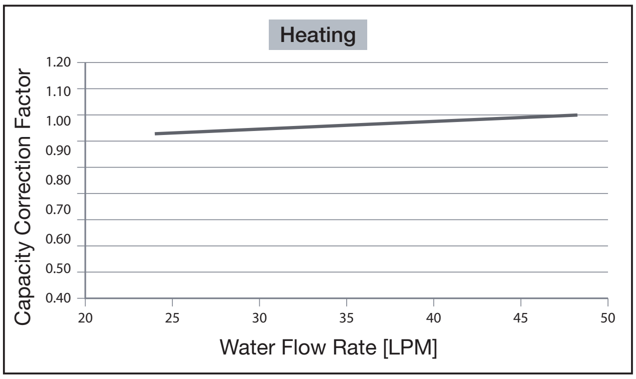
3 Capacity & Power input correction

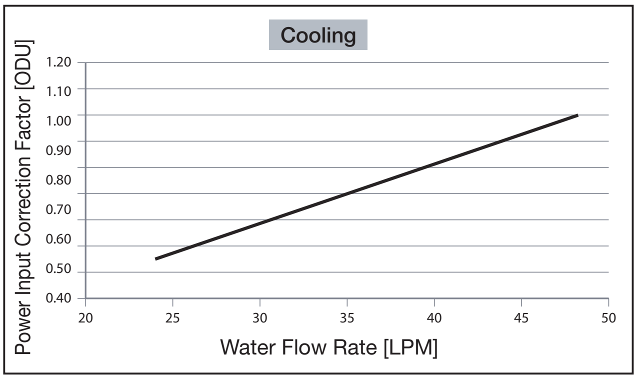
Hydro Unit HE

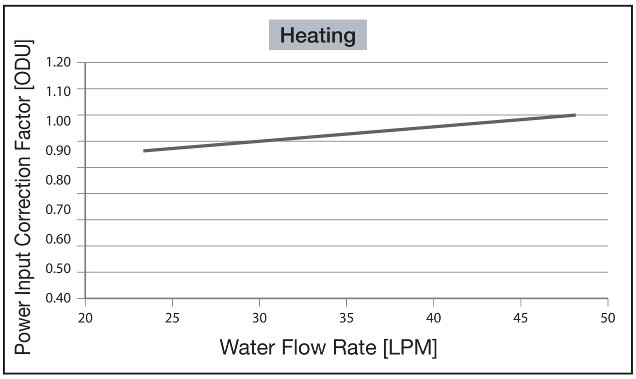
1) By water flow rate

(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 △T

Flow Rate [LPM]	5HP	10HP	16HP
△T=10°C	24.0	46.0	75.0
△T=5°C	48.0	92.0	150.0

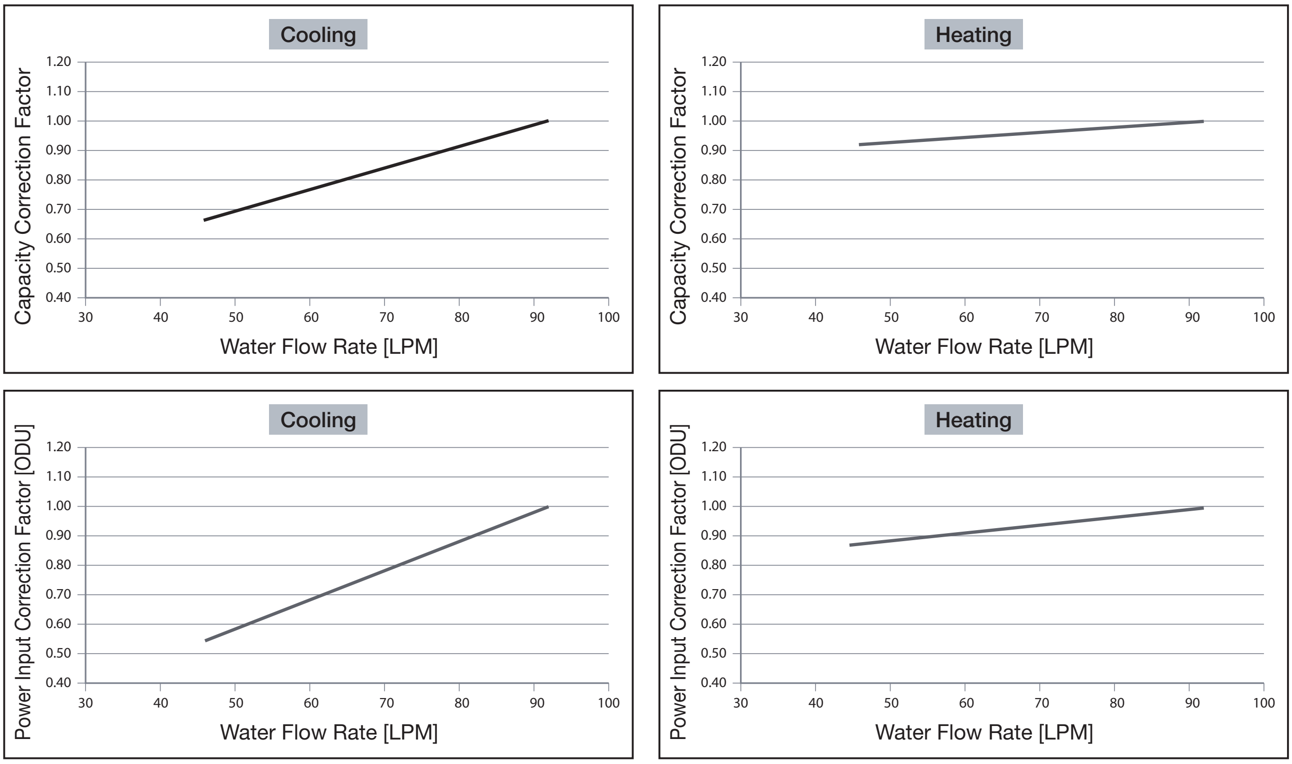
❇ Minimum flow rate of the Hydro unit is 50% of rated flow rate.

3 Capacity & Power input correction

Hydro Unit 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 △T

Flow Rate [LPM]	5HP	10HP	16HP
△T=10°C	24.0	46.0	75.0
△T=5°C	48.0	92.0	150.0

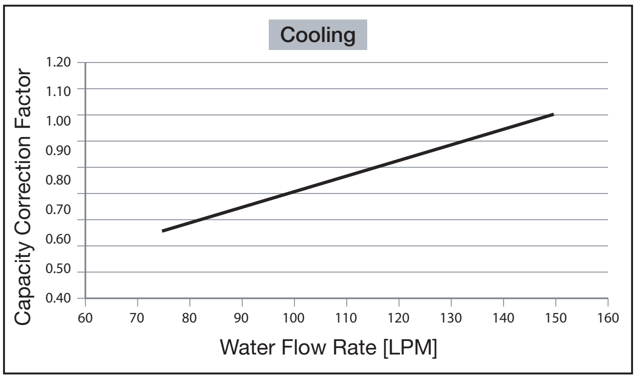
❈ Minimum flow rate of the Hydro unit is 50% of rated flow rate.

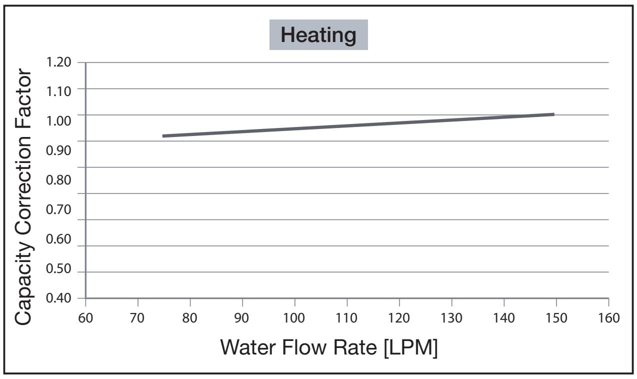
3 Capacity & Power input correction

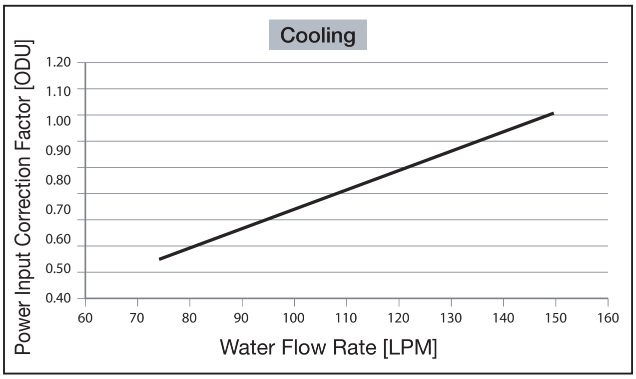
Hydro Unit HE

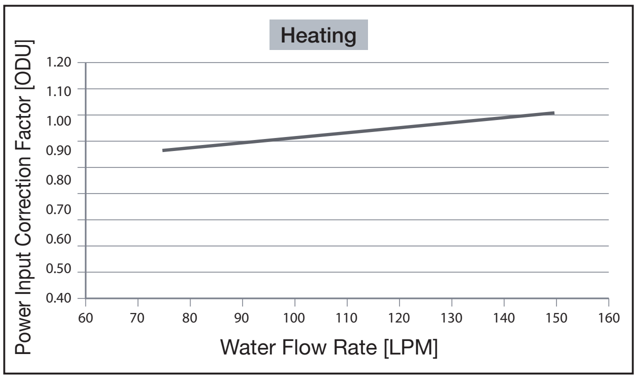
1) By water flow rate

(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 △T

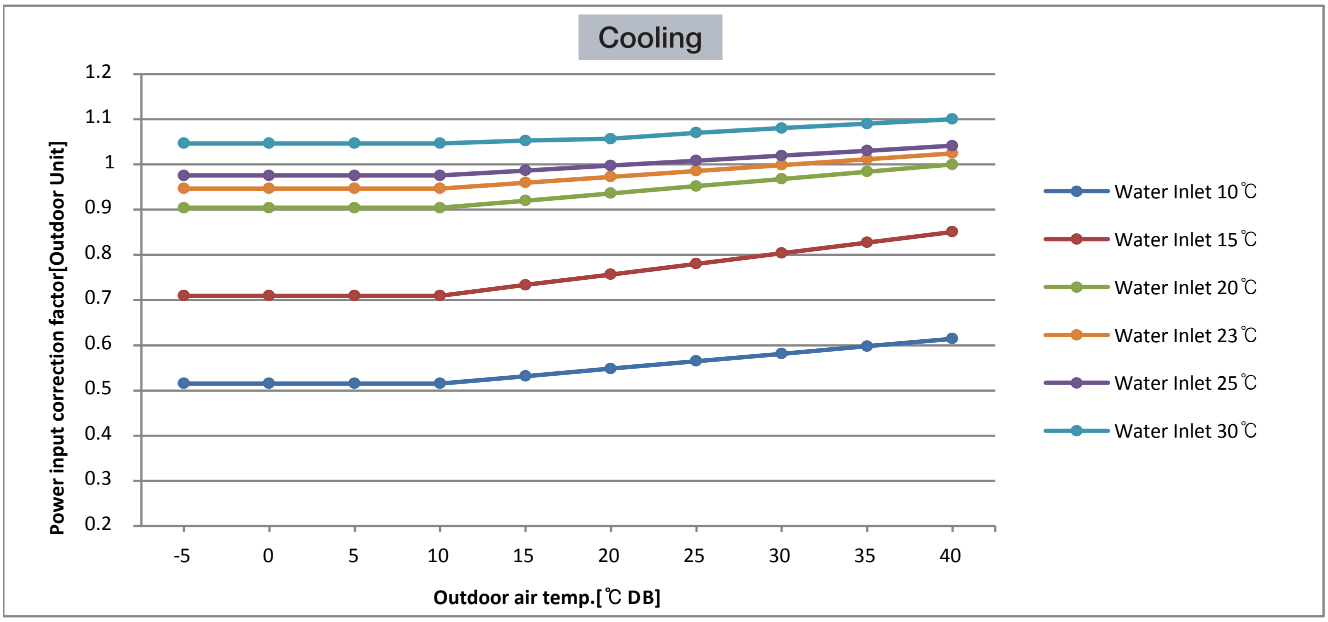
Flow Rate [LPM]	5HP	10HP	16HP
△T=10°C	24.0	46.0	75.0
△T=5°C	48.0	92.0	150.0

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

3 Capacity & Power input correction

Hydro Unit HE

2) By outdoor air temperature



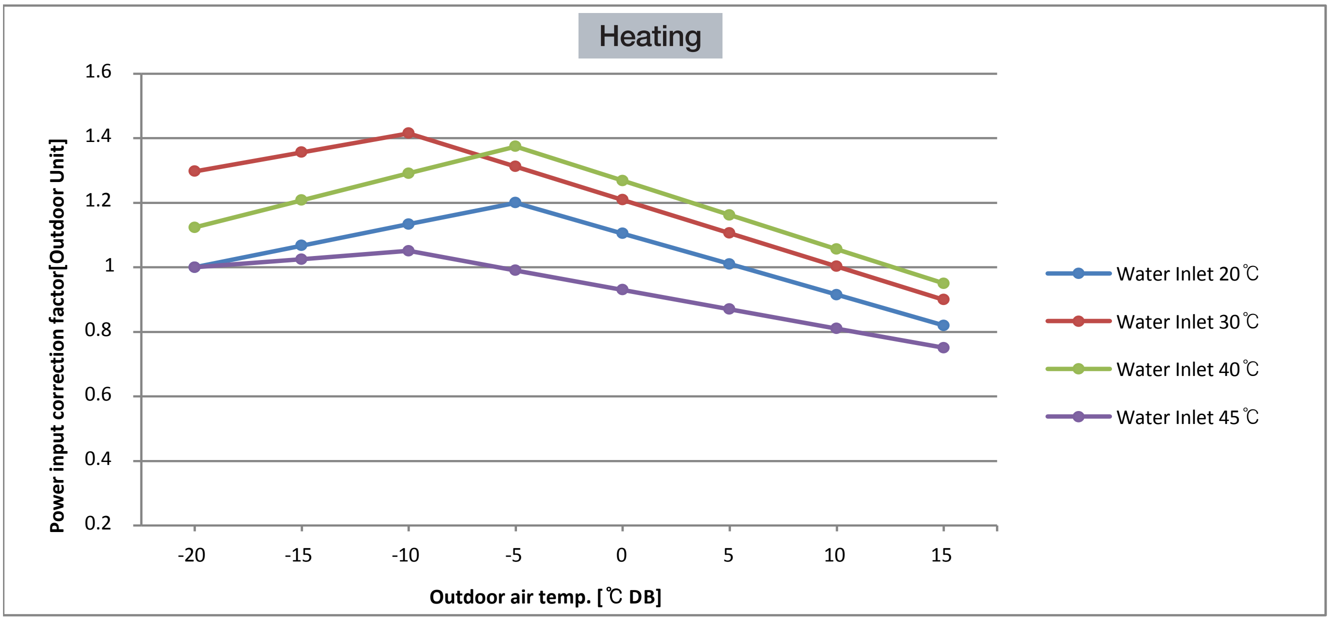
Power input correction factor (Cooling)

Outdoor air temp. (DB, ℃)	Water inlet temp. (℃)					
	10	15	20	23	25	30
-5	0.52	0.71	0.90	0.95	0.98	1.05
0	0.52	0.71	0.90	0.95	0.98	1.05
5	0.52	0.71	0.90	0.95	0.98	1.05
10	0.52	0.71	0.90	0.95	0.98	1.05
15	0.53	0.73	0.92	0.96	0.99	1.05
20	0.55	0.76	0.94	0.97	1.00	1.06
25	0.56	0.78	0.95	0.99	1.01	1.07
30	0.58	0.80	0.97	1.00	1.02	1.08
35	0.60	0.83	0.98	1.01	1.03	1.09
40	0.61	0.85	1.00	1.02	1.04	1.10

3 Capacity & Power input correction

Hydro Unit HE

2) By outdoor air temperature



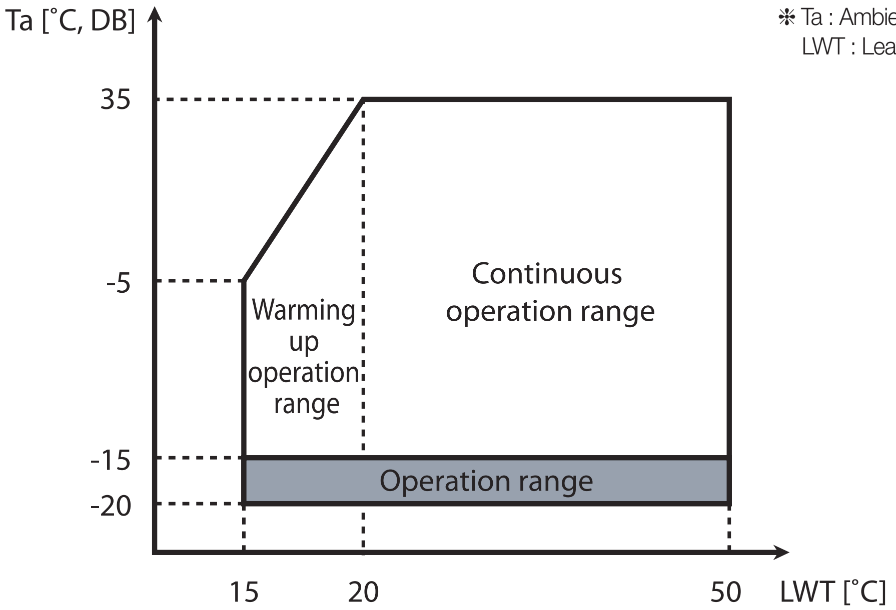
Power input correction factor (Heating)

Outdoor air temp. (℃)		Water inlet temp. (℃)			
DB	WB	20	30	40	45
-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
7	6	0.97	1.06	1.14	0.85
10	8.9	0.92	1.00	1.11	0.81
15	13.7	0.82	0.90	0.95	0.75

4 Operation range

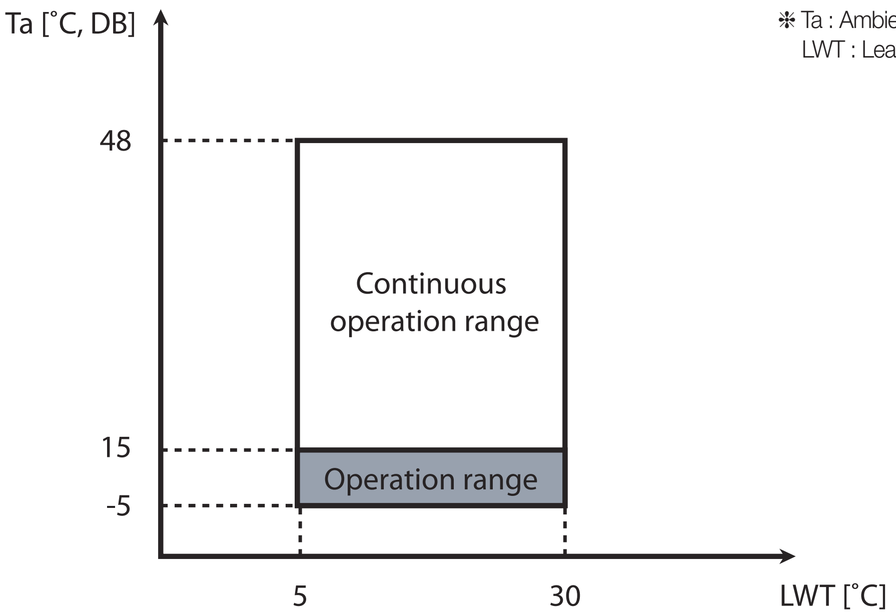
Hydro Unit HE

1) Heating



※ Ta : Ambient temperature
LWT : Leaving water temperature

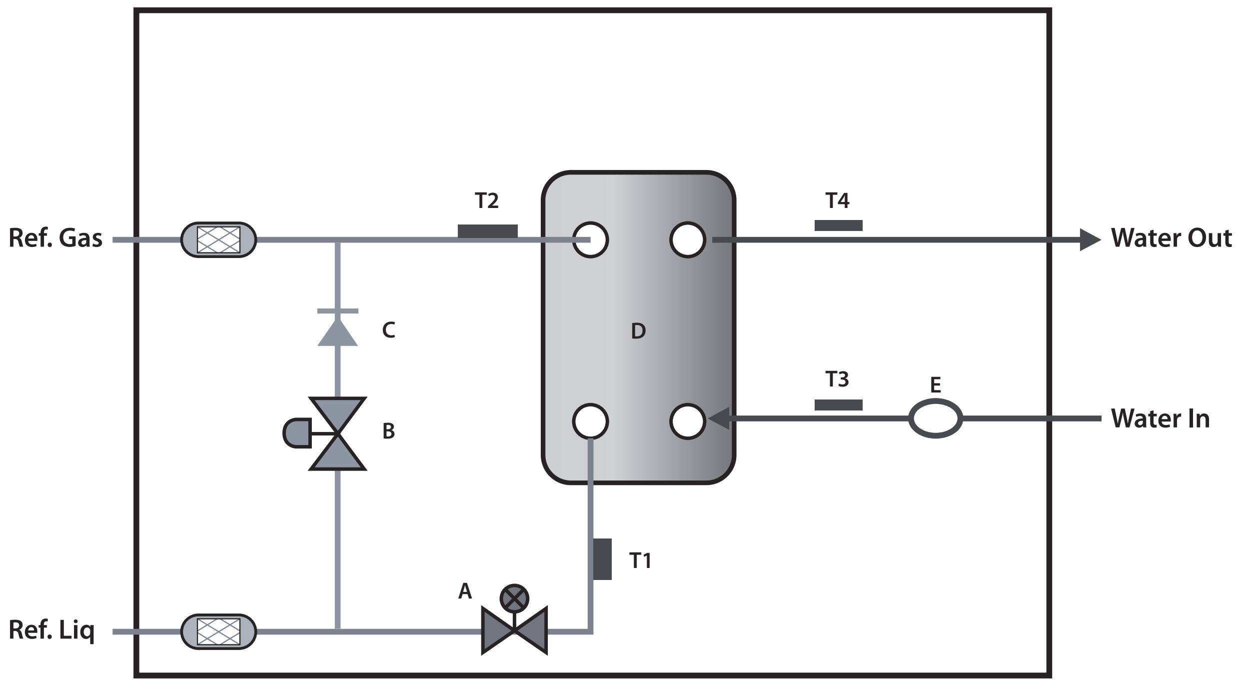
2) Cooling



※ Ta : Ambient temperature
LWT : Leaving water temperature

5 Piping diagram

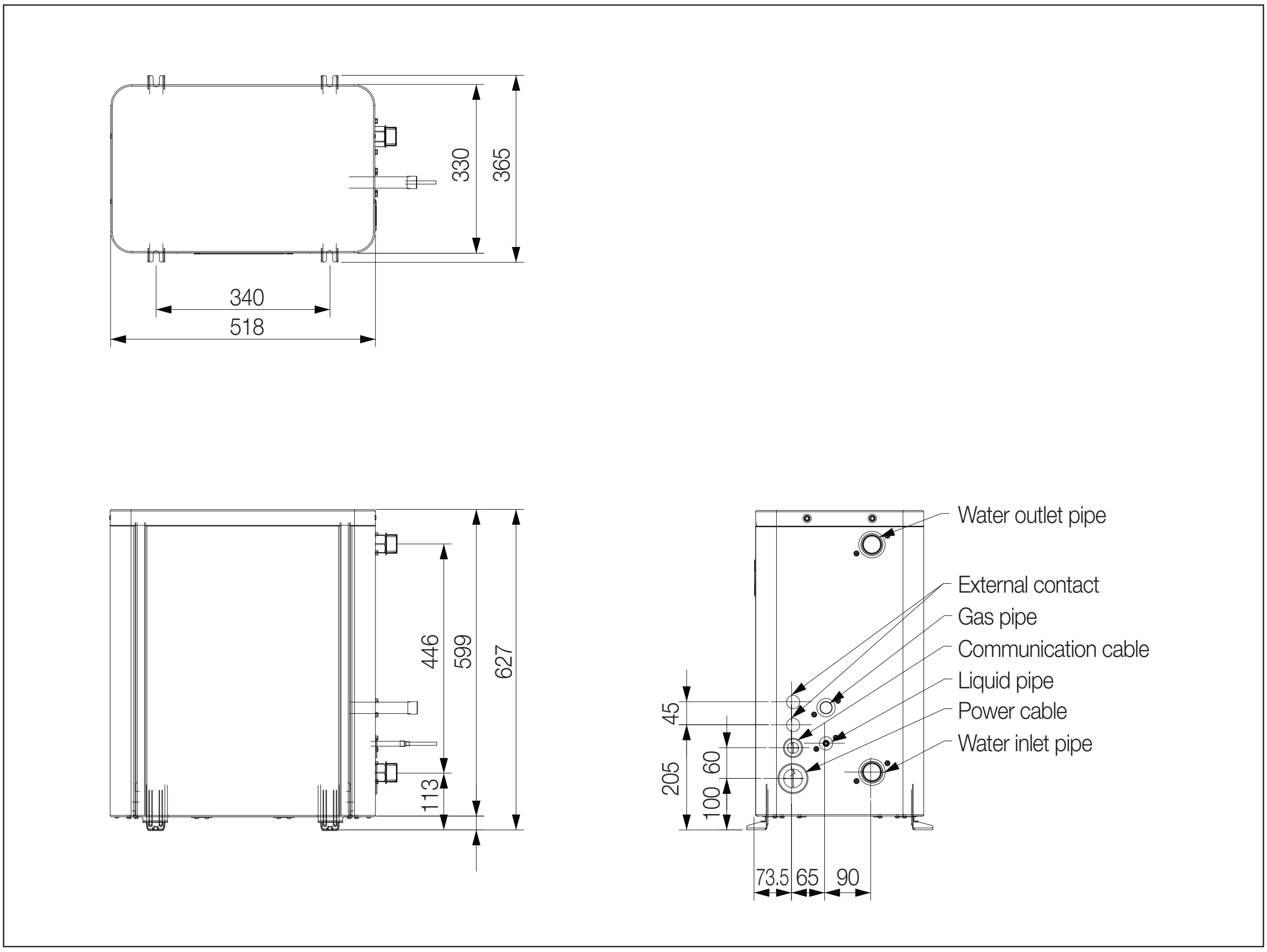
Hydro Unit HE



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

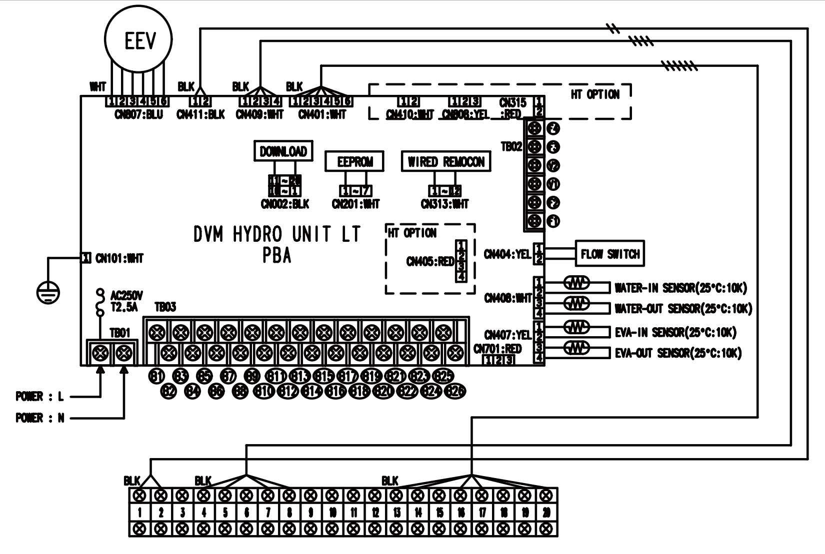
Hydro Unit HE



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)

Hydro Unit HE

AM160/320/500FNBDEH/EU



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 ouput 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

Display	Explanation
E101	Communication error between DVM Hydro unit and outdoor unit (When DVM Hydro unit is having trouble with receiving data from outdoor unit)
E102	Communication error on outdoor unit
E121	Error on room temperature sensor of DVM Hydro unit (Short or Open)
E122	Error on EVA IN sensor of DVM Hydro unit (Short or Open)
E123	Error on EVA OUT sensor of DVM Hydro unit (Short or Open)
E128	EVA IN sensor of DVM Hydro unit is detached
E129	EVA OUT sensor of DVM Hydro unit is detached
E130	EVA IN and EVA OUT sensor of DVM Hydro unit is detached
E151	Error due to opened EEV of DVM Hydro unit (2nd detection)
E152	Error due to closed EEV of DVM Hydro unit (2nd detection)
E161	Mixed operation mode error
E162	EEPROM error
E163	EEPROM option setting error
E177	Emergency error : water pipe check
E185	Cross wiring error (When power line is connected to communication line of DVM Hydro unit)
E198	Error due to disconnected Thermal Fuse (When the temperature of terminal block is increases)
E901	Error on the sensor of water inlet pipe (Short or Open)
E902	Error on the sensor of water outlet pipe (Short or Open)
E907	Error due to pipe rupture protection
E908 E909	Error due to freeze prevention
E910	Water temperature sensor on water outlet pipe is detached
E911 E913	Error due to turned off Flow switch off flow switch (when switch turns off within 10 seconds after pump starts to operate)
E914	Error due to incorrect thermostat connection

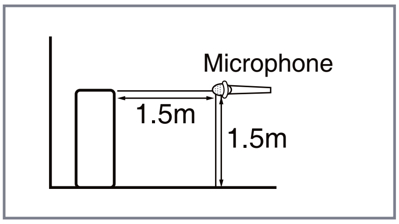
CODE NO : DB68-03522A

NOTE

1. This wiring diagram applies only to the indoor unit.
2. Symbols show as follow;
   BLK : black, RED : red, BLU : blue, WHT:white, YEL : yellow, BRN : brown, SKY : sky-blue, GRN : green
3. For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remotecontroller transmission F3-F4.
4. : Protective earth(screw), : Connector, n : The wire quantity

Hydro Unit HE

1) Operation sound level



Unit : dB(A)

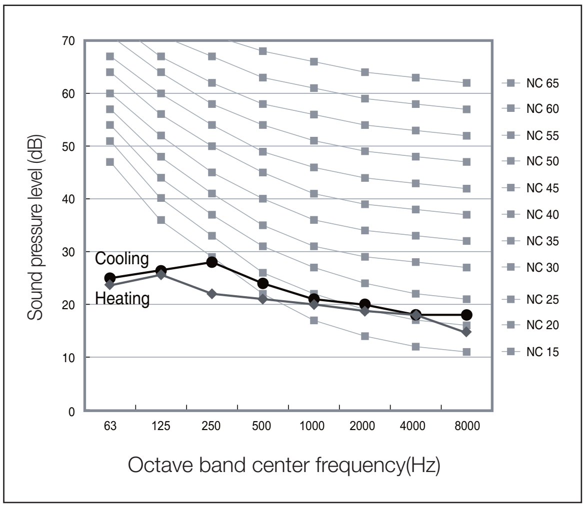
Model	Cooling	Heating
AM160FNBDEH✳✳✳	27	26
AM320FNBDEH✳✳✳	28	27
AM500FNBDEH✳✳✳	30	31

Note

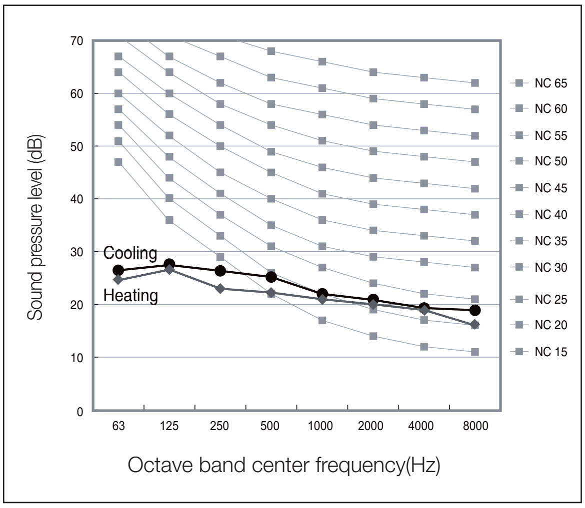
Specifications may be subject to change without prior notice.
Sound pressure level is obtained in an anechoic room.
Sound pressure level is a relative value, depending on the distance and acoustic environment.
Sound pressure level may differ depending on operation condition.
dBA = A-weighted sound pressure level
Reference acoustic pressure 0 dB= 20 uPa

2) NC curves

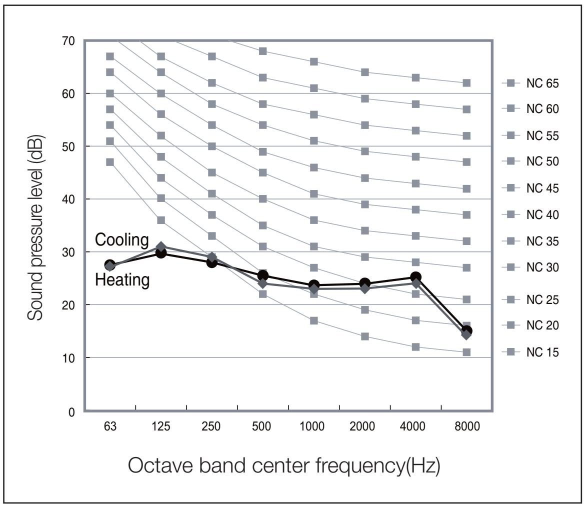
(1) AM160FNBDEH ***



(2) AM320FNBDEH ***



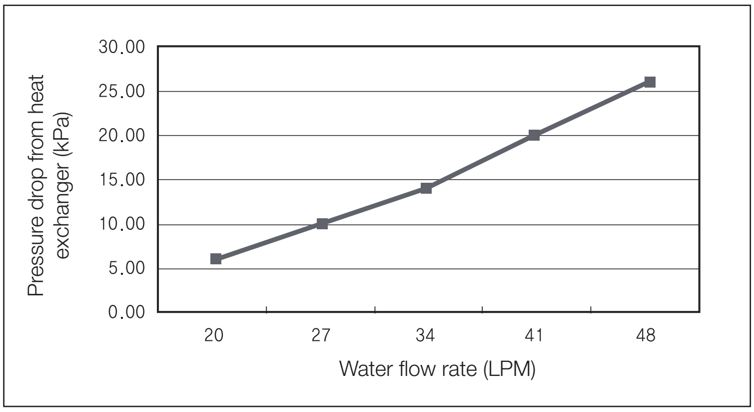
(3) AM500FNBDEH ***



9 Hydraulic performance

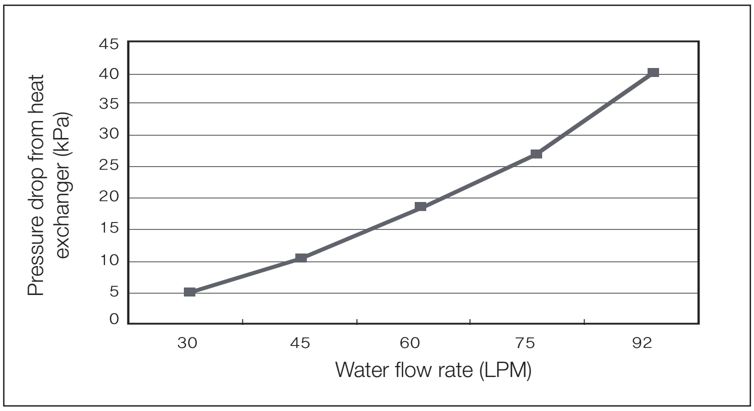
Hydro Unit HE

1) AM160FNBDEH✳✳✳



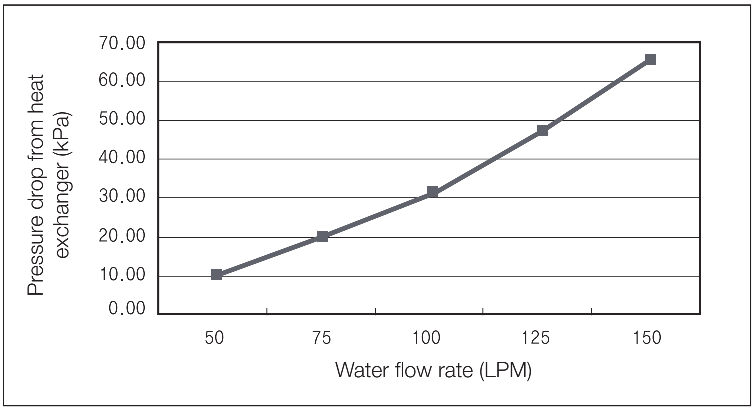
Water flow rate (LPM)	Pressure drop from heat exchanger (kPa)
20	6
27	10
34	14
41	20
48	26

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 Unit HT

1 Specifications

Hydro Unit HT

1) Technical specifications

Model				AM160FNBFEB***	AM160FNBFGB***	AM250FNBFEB***	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
	MFA		A	30.19	16.1	40.19	16.1
Compressor	Type		-	Rotary	Rotary	Rotary	Rotary
	Output		kW x 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
	Factory Charging		kg / tCO2e	2.15 / 3.07	2.15 / 3.07	2.15 / 3.07	2.15 / 3.07
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	℃	-	-	-	-
		Heating	℃	−20 ~ 35	−20 ~ 35	−20 ~ 35	−20 ~ 35
		Hot Water (Main Cooling, HR)	℃	−20.0 ~ 35(43)	−20.0 ~ 35(43)	−20.0 ~ 35(43)	−20.0 ~ 35(43)
	Leaving Water	Cooling	℃	-	-	-	-
		Heating	℃	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.

* Heat Exchanger type : Plate Heat Exchanger (STS)

*5) These products contain R134a(GWP=1,430) which is fluorinated greenhouse gas.

Hydro Unit 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
	15	16,000	1,806	16,000	2,259	16,000	2,474	16,000	2,734
250	-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	EW = 45˚C	EW = 55˚C	EW = 65˚C
△T = 5˚C	△T = 10˚C	△T = 10˚C	△T = 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%

Hydro Unit HT

2) Capacity calculation method

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

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

8HP DVM S TDB Heat Capacity Table

combination, % (Capacity index)	Outdoor Temperature(°C)		Indoor Temperature (°C,DB) 20.0 °C	
			TC	PI
	DB	WB	kW	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	Outdoor Unit Capacity Table
PI System[kW]	8.93	=Indoor Unit PI + Outdoor Unit PI

Hydro Unit HT

10HP DVM S TDB Heat Capacity Table

combination, % (Capacity index)	Outdoor Temperature(℃)		Indoor Temperature (℃,DB) 20.0 ℃	
			TC	PI
	DB	WB	kW	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	Outdoor Unit Capacity Table
PI System[kW]	11.54	= Total Indoor Unit PI + Outdoor Unit PI

Flowrate Information

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

2 Capacity table

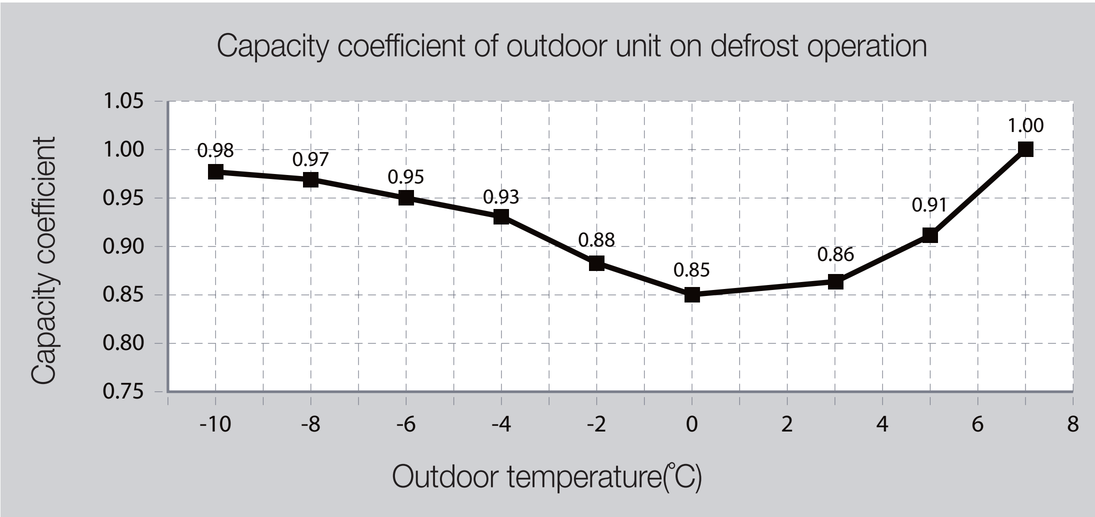
Hydro Unit HT

How to calculate heating capacity and power input : Integrated value

1. Defrosting correction factor (Outdoor unit)
   - On heating operation, frost can be formed on heat exchanger according to outdoor temperature. (Frost on heat exchanger resuits 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 decreacse.
     The decrement is not considered to the individual capacity tables.

Outdoor temperature (℃, 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 Unit 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) x 0.3 = 0.883
4) HC = 0.883 x 16,000W x 2ea = 28.3kW
5) Power input (Outdoor unit) = 6.88kW
6) Power input (Hydro unit HT) = { 0.91 x (2,453W + 2,419W) / 2 + (1 - 0.91) x 1,050W } x 2 = 4.62kW
7) Total PI = 6.88 + 4.62 = 11.5kW

10HP DVM S TDB Heat Capacity Table

combination, % (Capacity index)	Outdoor Temperature(˚C)		Indoor Temperature (˚C,DB)	
			20.0 ˚C	
			TC	PI
	DB	WB	kW	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
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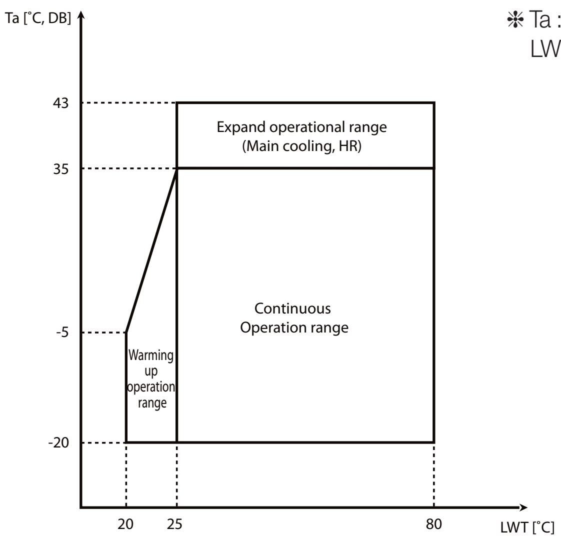
	7	6	31.5	6.70
	9	8	31.5	6.38
	11	10	31.5	6.08
	13	12	31.5	5.81
	15	14	31.5	5.61

2-3. Operation range

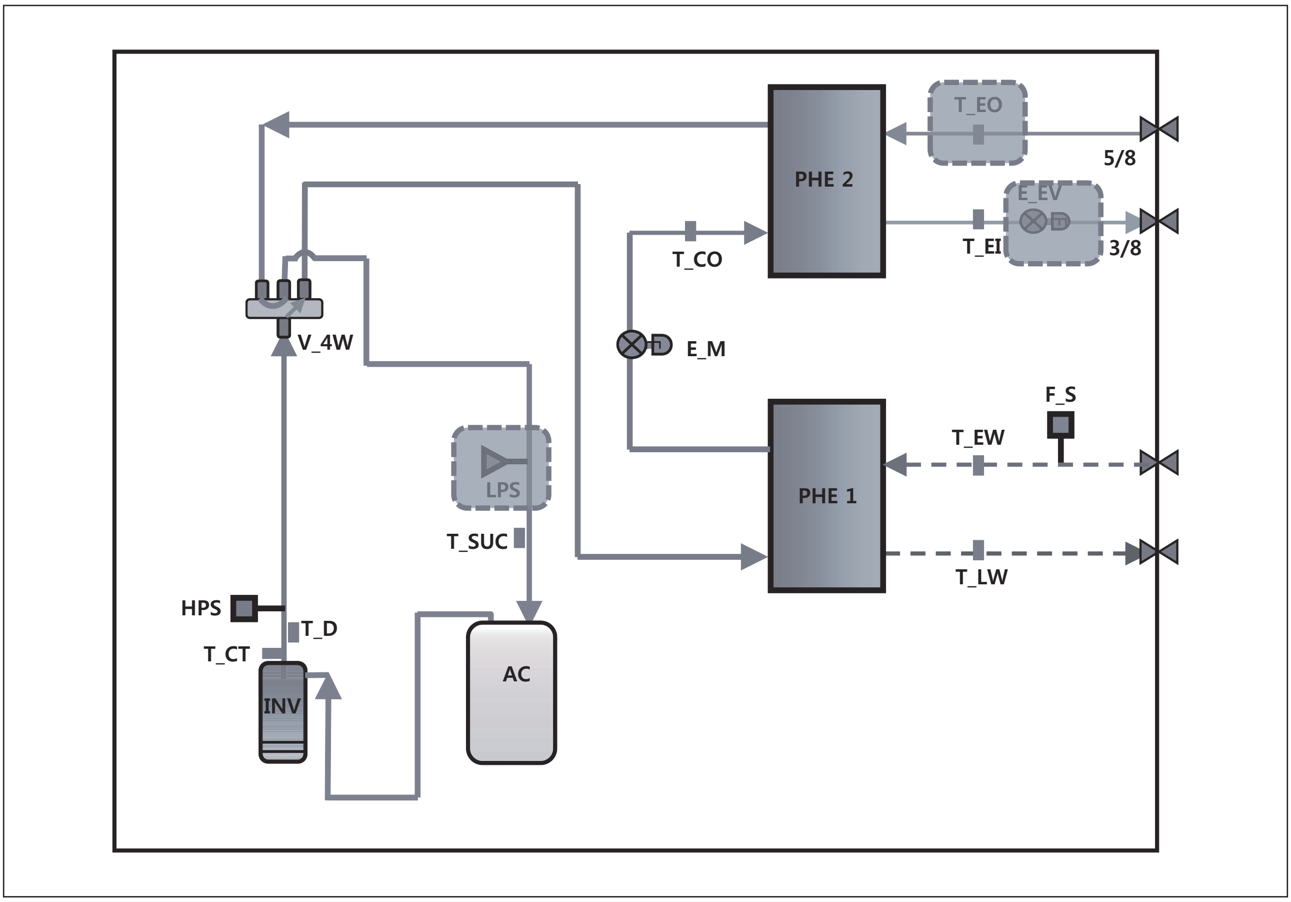
1) Heating



❇ Ta : Ambient temperature
LWT : Leaving water temperature

3 Piping diagram

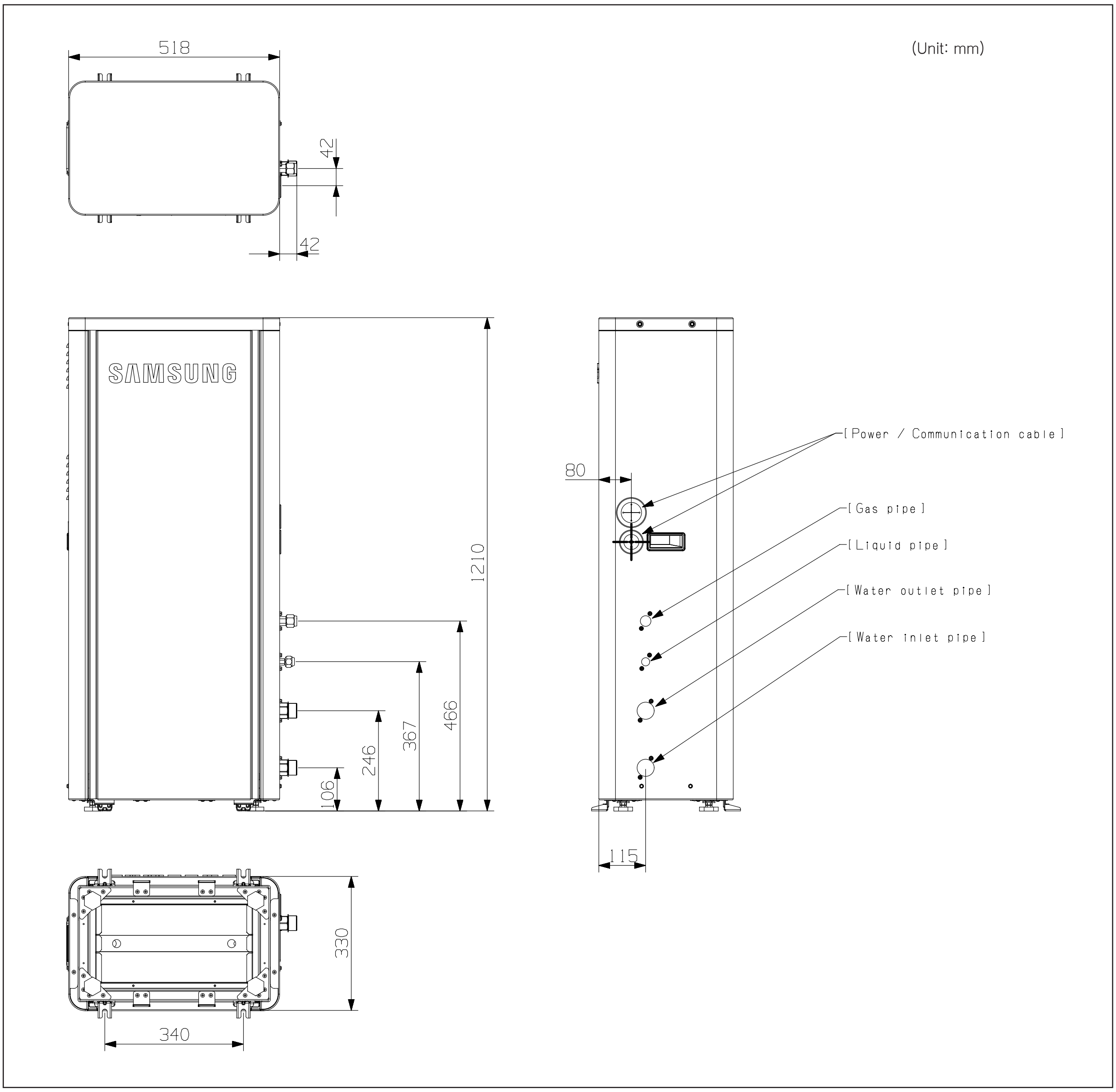
Hydro Unit HT



Symbol	Name
INV	Inveter 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 Unit HT



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

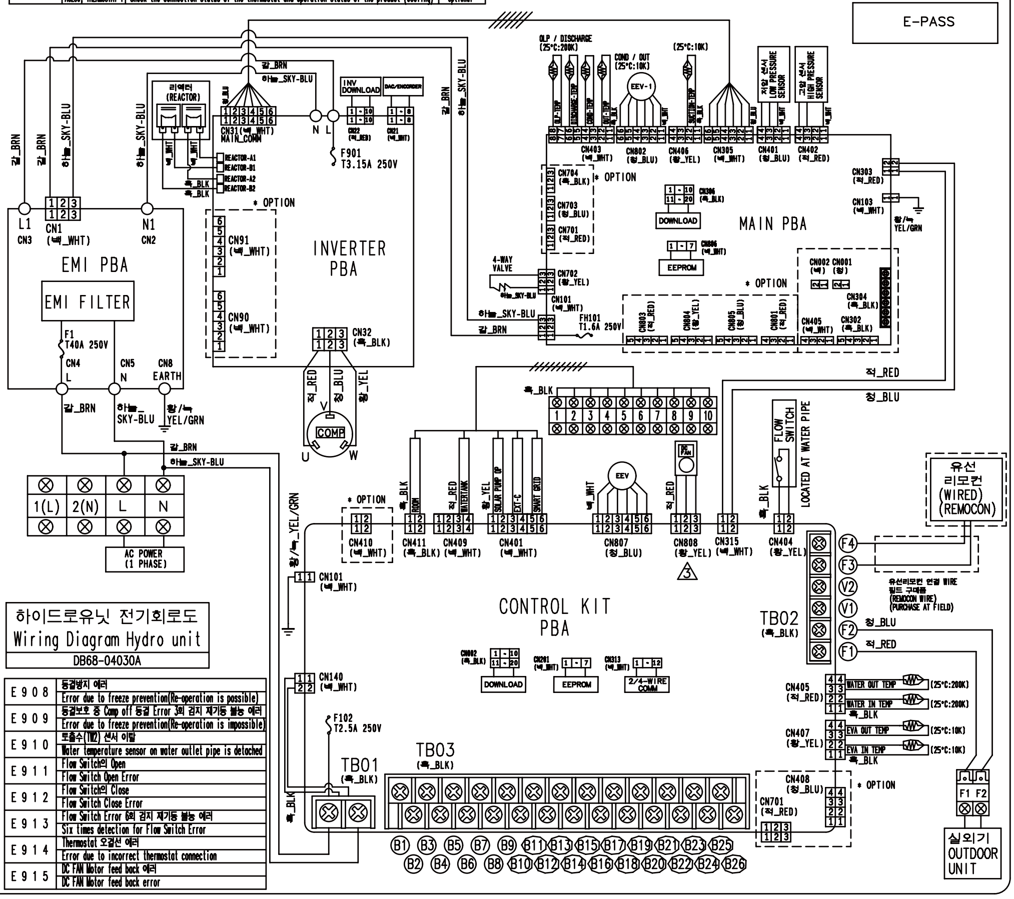
Hydro Unit HT

AM160/250FNBFEB/EU

에러코드 Error No	PBA - 에러 설명 Error Description
E110	Control kit PBA - HTU(Main) PBA 간 통신 미검지 에러 (Control kit에서 검지) Communication error between the control kit and main
E121	Room 센서의 Short 또는 Open Room sensor error (Open/Short)
E122	Eva In 센서의 Short 또는 Open Eva in sensor error (Open/Short)
E123	Eva Out 센서의 Short 또는 Open Eva Out sensor error (Open/Short)
E198	온도퓨즈 단선 에러 Thermal fuse cut off error
E201	하이드로유닛 - 실외기 통신 에러 (하이드로유닛 미연결 / 수량 부정합) Communication error (The mismatched number of Hydro unit)
E202	하이드로유닛 - 실외기 통신 에러 (1분 이상 통신 불가) Communication error between the outdoor and Hydro unit
E203	하이드로유닛 인버터 PBA - 메인 PBA 간 통신 에러 (6분이상 통신 불가) Hydro unit communication error between main micom and inv. micom
E221	공기온도센서의 Short 또는 Open Outside air temperature sensor error (Short/Open)
E231	Cond Out 센서의 Short 또는 Open Condenser outlet sensor error (Open/Short)
E251	Comp1 discharge온도센서의 Short 또는 Open Compressor discharge temperature sensor error (Open/Short)
E291	고압Sensor의 Short 또는 Open Refrigerant leakage or error on high pressure sensor (Short or Open)
E296	저압Sensor의 Short 또는 Open Refrigerant leakage or error on low pressure sensor (Short or Open)
E308	Suction 센서의 Short 또는 Open (HT에서는 세트 동작함) Suction temperature sensor error (Open/Short)
E320	OLP 센서의 Short 또는 Open OLP(top of compressor) temperature sensor error (Short/Open)
E407	고압 과부하 보호제어 에러 High pressure error
E410	저압 보호제어 에러 Compressor operation stop due to low pressure protection control or refrigerant leakage
E416	Discharge온도에 의한 시스템 정지 Discharge over temperature error when compressor stop
E428	압축기 제어에 의한 Comp Down1 Compressor operation stop due abnormal compression ratio
E439	냉매 누설 에러 Error due to refrigerant leakage
E440	특정 실외온도 이상에서 난방운전시 기동금지 Out of operation temperature range in Heating
E443	저압에 의한 기동금지 에러 Operation prohibited due to low pressure
E461	인버터 압축기 기동 실패 Comp rotation starting error
E462	전전류 제어 시스템 정지 Total input current overload error
E463	OLP 온도 제어 시스템 정지 OLP(top of compressor) temperature over heat
E464	DC Peak 시스템 정지 IPM over current(O.C) error
E465	압축기 과부하 정지 COMP over load error
E466	DC Link 전압 에러 DC-Link voltage under/over error
E467	압축기 회전이상 또는 압축기 Wire 미결 Comp rotation error
E468	current 센서의 Short 또는 Open Current sensor error
E469	DC-Link voltage 센서의 Short 또는 Open DC-Link voltage sensor error
E470	인버터 EEPROM Read/Write 에러 EEPROM read/write error
E471	인버터 EEPROM 에러 OTP error
E472	Zero crossing 에러 Zreo crossing error
E473	인버터 Comp Lock 에러 Comp locking error
E474	인버터 IPM Heat Sink 센서의 Short 또는 Open Heatsink sensor error (short/open)
E484	PFC Overload(과전류) 에러 PFC over load error
E485	인버터 입력 전류 센서의 Short 또는 Open Input current sensor error
E500	인버터 IPM OverHeat 에러 Heatsink over heat error
E901	Tw1 센서의 Short 또는 Open Water inlet (PHE) temperature sensor error (Short/Open)
E902	Tw2 센서의 Short 또는 Open Water outlet (PHE) temperature sensor error (Short/Open)
E904	Water Tank 센서의 Short 또는 Open Hydro unit Water Tank sensor error (Short/Open)
E907	동파 에러 Error due to pipe rupture protection

단자 번호 Terminal No.	외부 접점 External contact	동작 상태 확인/점검 사항 Operation status/inspection checklist	비 고 Remarks
B1 - B2	동작확인	현장 제어판넬 운전 램프 점등 유/무 확인	선택 연결
	OPERATION CHECK	Check on/off status for operation lamp of the control panel on the site	Optional
B3 - B4	알람	현장 판넬 경보 램프 점등 유/무 확인	선택 연결
	ALARM	Check on/off status for alarm lamp of the panel on the site	Optional
B5 - B6	워터펌프	현장 제어판넬에서 펌프 동작신호 출력 및 동작 여부 확인	필수 연결
	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	부스터 히터	현장 제어판넬에서 히터 동작신호 출력 여부 확인	선택 연결
	HEATER	Check the status of the heater operation signal output at the control panel on the site	Optional
B9 - B10 - B11	3WAY 밸브 1	신호 출력 상태 및 밸브 동작 유무 확인 (실내,급탕탱크 방향 전환)	선택 연결
	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 밸브 2	신호 출력 상태 및 밸브 동작 유무 확인 (태양열 펌프신호와 연동)	선택 연결
	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 밸브	신호 출력 또는 밸브 동작 상태 확인	선택 연결
	2WAY V/V	Check the status of signal output or operation status of the valve	Optional
B19 - B20	AC230, 서모스탯 1	해당 서모스탯 연결 상태 및 제품 기동 상태 확인 (냉방)	선택 연결
	AC230, THERMOSTAT 1	Check the connection status of the thermostat and operation status of the product (cooling)	Optional

단자 번호 Terminal No.	외부 접점 External contact	동작 상태 확인/점검 사항 Operation status/inspection checklist	비 고 Remarks
B21 - B22	AC230, 서모스탯 2	해당 서모스탯 연결 상태 및 제품 기동 상태 확인(난방)	선택 연결
	AC230, THERMOSTAT 2	Check the connection status of the thermostat and operation status of the product (heating)	Optional
B23 - B24	AC24, 서모스탯 1	해당 서모스탯 연결 상태 및 제품 기동 상태 확인(냉방)	선택 연결
	AC24, THERMOSTAT 1	Check the connection status of the thermostat and operation status of the product (cooling)	Optional
B25 - B26	AC24, 서모스탯 2	해당 서모스탯 연결 상태 및 제품 기동 상태 확인(난방)	선택 연결
	AC24, THERMOSTAT 2	Check the connection status of the thermostat and operation status of the product (heating)	Optional
1 - 2	실내 온도센서	실내온도센서 별도 설치후, 유선리모컨 온도 표시 상태 확인 (유선리모컨 옵션 설정 참조)	선택 연결
	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	워터탱크 온도센서	4~20mA 온도센서 연결후, 유선리모컨 온도 표시 상태 확인	필수 연결 (급탕 운전)
	WATER TANK TEMP	Check the temperature display on the wired remote controller after installing the 4~20mA temperature sensor	(hot water supply)
5 - 6	태양열 펌프	태양열 펌프 접점신호 입력 및 동작여부 확인	선택 연결
	SOLAR PUMP	Check the solar pump contact signal input and status of the operation	Optional
7 - 8	외부제어	외부 접점제어 입력 및 동작여부 확인	선택 연결
	EXT. CONTROL	Check the contact signal input and status of the operation	Optional
9 - 10	스마트 그리드	Smart Grid 접점 입력 및 신호확인	선택 연결
	SMART GRID	Check the Smart Grid contact input and the signal	Optional



하이드로유닛 전기회로도
Wiring Diagram Hydro unit
DB68-04030A

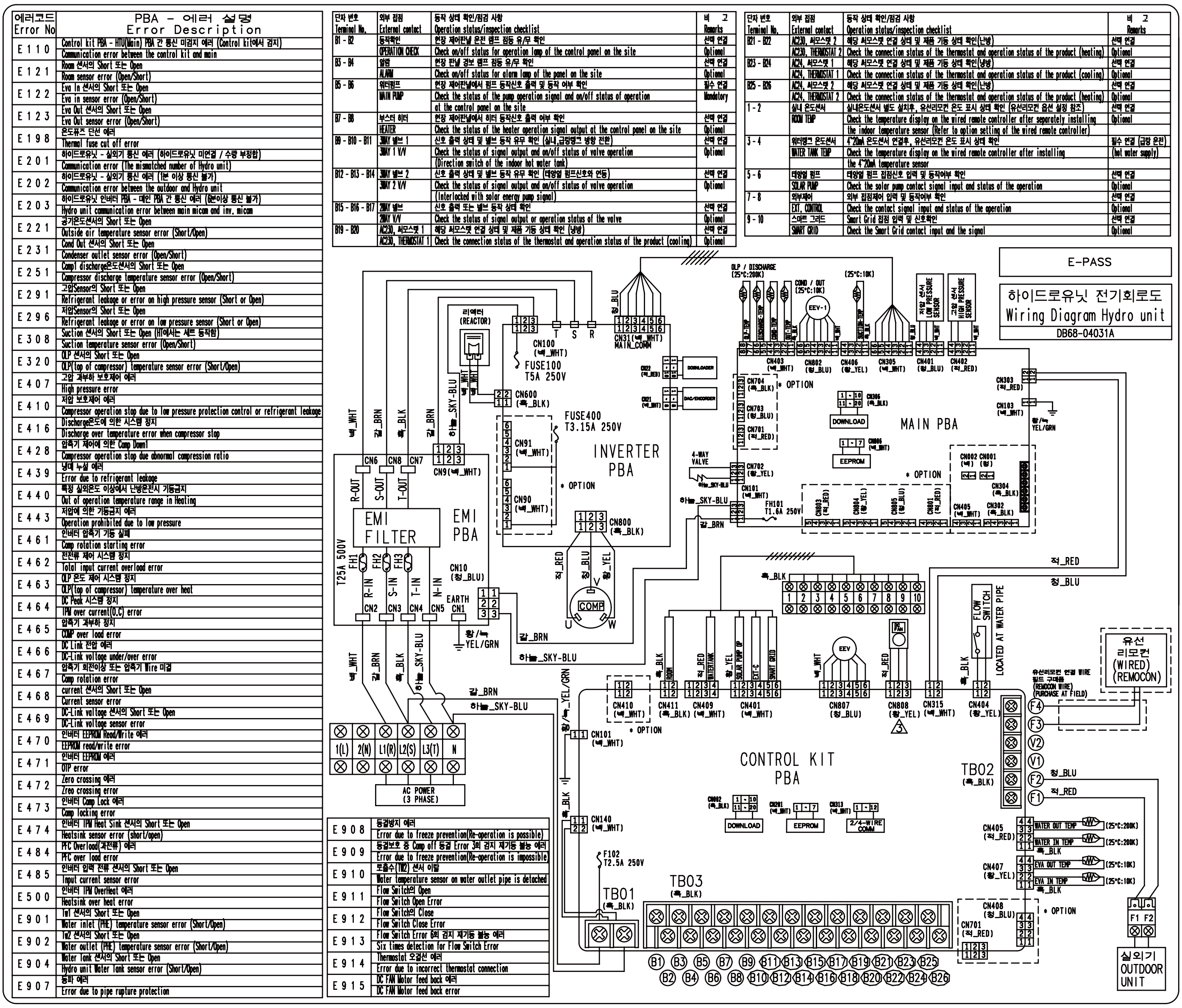
E908	동결방지 에러 Error due to freeze prevention(Re-operation is possible)
E909	동결보호 중 Comp off 동결 Error 3회 검지 재기동 불능 에러 Error due to freeze prevention(Re-operation is impossible)
E910	토출수(TW2) 센서 이탈 Water temperature sensor on water outlet pipe is detached
E911	Flow Switch의 Open Flow Switch Open Error
E912	Flow Switch의 Close Flow Switch Close Error
E913	Flow Switch Error 6회 검지 재기동 불능 에러 Six times detection for Flow Switch Error
E914	Thermostat 오결선 에러 Error due to incorrect thermostat connection
E915	DC FAN Motor feed back 에러 DC FAN Motor feed back error

NOTE

1. This wiring diagram applies only to the indoor unit.
2. Symbols show as follow;
   BLK : black, RED : red, BLU : blue, WHT:white, YEL : yellow, BRN : brown, SKY : sky-blue, GRN : green
3. For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remotecontroller transmission F3-F4.
4. : Protective earth(screw), : Connector, n : The wire quantity

Hydro Unit HT

AM160/250FNBFGB/EU



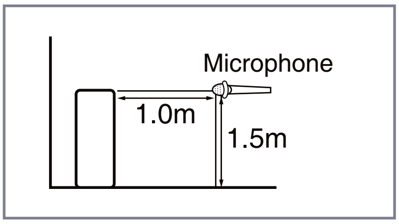
NOTE

1. This wiring diagram applies only to the indoor unit.
2. Symbols show as follow;
   BLK : black, RED : red, BLU : blue, WHT:white, YEL : yellow, BRN : brown, SKY : sky-blue, GRN : green
3. For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remotecontroller transmission F3-F4.
4. : Protective earth(screw), : Connector, n : The wire quantity

6 Sound pressure level

Hydro Unit HT

1) Operation Sound Level



Unit : dB(A)

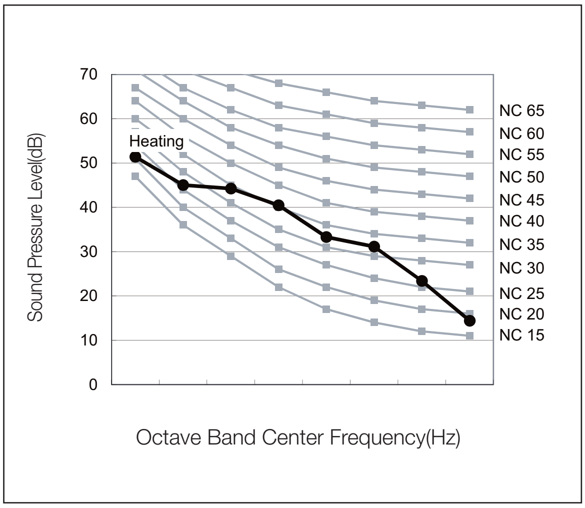
Model	Heating
AM160FNBFEB✳✳✳	42
AM160FNBFGB✳✳✳	42
AM250FNBFEB✳✳✳	42
AM250FNBFGB✳✳✳	42

Note

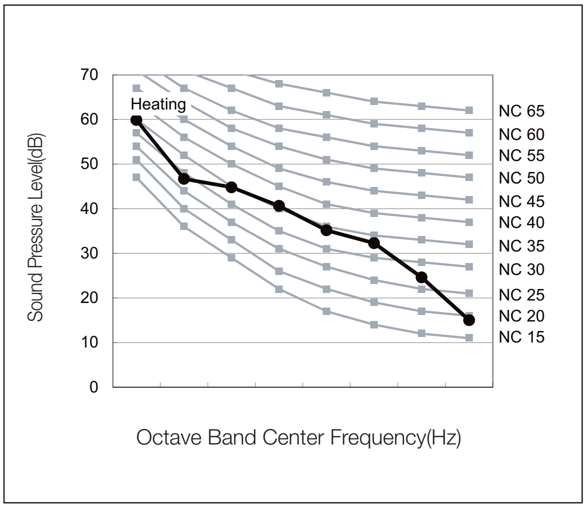
Specifications may be subject to change without prior notice.
Sound pressure level is obtained in an anechoic room.
Sound pressure level is a relative value, depending on the distance and acoustic environment.
Sound pressure level may differ depending on operation condition.
dBA = A-weighted sound pressure level
Reference acoustic pressure 0 dB= 20 uPa

2) NC curves

(1) AM160FNBFEB***

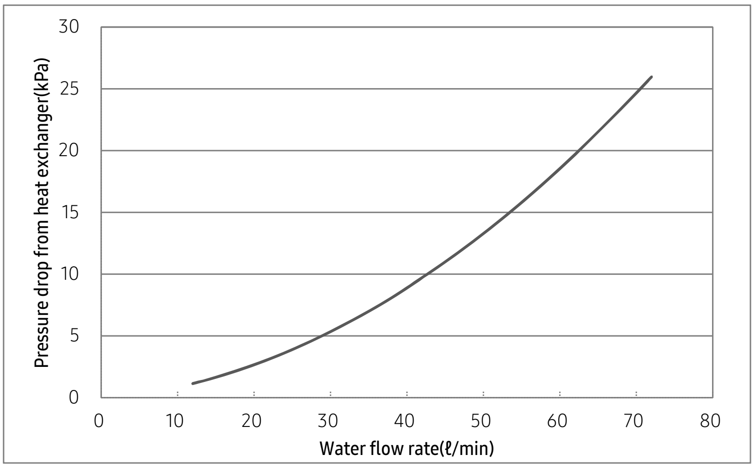


(2) AM250FNBFEB***



Hydro Unit HT

1) AM✳✳✳FNBF✳✳



Water flow rate (LPM)	Pressure drop from heat exchanger (kPa)
12	1.1
15	1.6
20	2.7
25	3.9
30	5.3
35	7.0
40	8.9
50	13.3
60	18.5
70	24.6
72	26.0

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