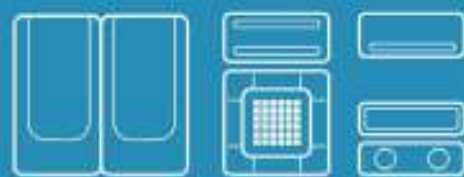


VRF

Technical Data Book

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



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	
Ver.2.8	Modified Floor Standing Piping Connection spec (P374)	'18.01.24	
Ver.2.9	Added new line up (Home Duct, p.248~p.265)	'18.03.28	
Ver.2.9.1	Revised the error of 1Way CST size (p.14, 15, 22)	'18.04.10	
Ver.2.10	Revised the error of HSP Duct power spec (p.225)	'18.07.17	
Ver.3.0	Revised the Fan characteristics (P-Q Curve) of Duct line up	'18.08.03	

History

Version	Modification	Date	Remark
Ver.3.1	Revised the ERV Plus Optional Accessory	'19.03.08	
Ver.3.2	Updated the capacity table	'19.04.26	
Ver.3.21	Updated the Operating range of Hydro unit HE	'19.07.09	
Ver.3.3	Modified the Shipping Weight (AM***KN4DEH/EU)	'19.09.11	
Ver.3.4	Updated the Capacity Table of Hydro units	'20.07.14	

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																	
Home 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.
 $0.5 \times \sum (\text{Outdoor unit capacity}) \leq \text{Total capacity of the connected indoor units} \leq 1.3 \times \sum (\text{Outdoor unit capacity})$

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.

II. Indoor units

Neo Forte

- 1 *Specifications*
- 2 *Capacity Table*
- 3 *Dimensional Drawing*
- 4 *Electrical Wiring Diagram*
- 5 *Sound Pressure Level*
- 6 *Sound Power Level*
- 7 *Temperature and air flow distribution*

1 Specifications

Neo Forte

Type				Neo Forte (EEV)		Neo Forte	
Model				AM015HNQDEH/EU		AM015HNTDEH/EU	
Power Supply			Ø, #, V, Hz	1,2,220-240,50		1,2,220-240,50	
Mode			-	HP/HR		HP/HR	
Performance	Capacity (Nominal)	Cooling	kW	1.50		1.50	
			Btu/h	5,100		5,100	
		Heating	kW	1.70		1.70	
			Btu/h	5,800		5,800	
Power	Power Input (Nominal)	Cooling	W	25.00		25.00	
		Heating		25.00		25.00	
	Current Input (Nominal)	Cooling	A	0.16		0.16	
		Heating		0.16		0.16	
Fan	Motor	Type	-	Crossflow Fan		Crossflow Fan	
		Output x n	w	23 x 1		23 x 1	
	Air Flow Rate	H/M/L (UL)	CMM	5.40 / 5.10 / 4.80		5.40 / 5.10 / 4.80	
			I/s	90.00 / 85.00 / 80.00		90.00 / 85.00 / 80.00	
	External Pressure	Min/Std/Max	mmAq	-		-	
			Pa	-		-	
Piping Connections	Liquid Pipe		Ø, mm	6.35		6.35	
			Ø, inch	1/4"		1/4"	
	Gas Pipe		Ø, mm	12.70		12.70	
			Ø, inch	1/2"		1/2"	
	Drain Pipe		Ø, mm	ID18 HOSE		ID18 HOSE	
Field Wiring	Power Source Wire		mm²	1.5 - 2.5		1.5 - 2.5	
	Transmission Cable		mm²	0.75 - 1.50		0.75 - 1.50	
Refrigerant	Type		-	R410A		R410A	
	Control Method		-	EEV INCLUDED		EEV NOT INCLUDED	
Sound	Pressure	High / Mid / Low	dB(A)	26 / 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°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.

* 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	
			I/s	130.00 / 113.33 / 96.67		130.00 / 113.33 / 96.67	
	External Pressure	Min/Std/Max	mmAq	-		-	
			Pa	-		-	
Piping Connections	Liquid Pipe		Ø, mm	6.35		6.35	
			Ø, inch	1/4"		1/4"	
	Gas Pipe		Ø, mm	12.70		12.70	
			Ø, inch	1/2"		1/2"	
	Drain Pipe		Ø, mm	ID18 HOSE		ID18 HOSE	
Field Wiring	Power Source Wire		mm²	1.5 - 2.5		1.5 - 2.5	
	Transmission Cable		mm²	0.75 - 1.50		0.75 - 1.50	
Refrigerant	Type		-	R410A		R410A	
	Control Method		-	EEV INCLUDED		EEV NOT INCLUDED	
Sound	Pressure	High / Mid / Low	dB(A)	31 / 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°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.

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

1 Specifications

Neo Forte

Type				Neo Forte (EEV)		Neo Forte	
Model				AM028FNQDEH/EU		AM028FNTDEH/EU	
Power Supply			Ø, #, V, Hz	1,2,220-240,50		1,2,220-240,50	
Mode			-	HP/HR		HP/HR	
Performance	Capacity (Nominal)	Cooling	kW	2.80		2.80	
			Btu/h	9,600		9,600	
		Heating	kW	3.20		3.20	
			Btu/h	10,900		10,900	
Power	Power Input (Nominal)	Cooling	W	25.00		25.00	
		Heating		25.00		25.00	
	Current Input (Nominal)	Cooling	A	0.16		0.16	
		Heating		0.16		0.16	
Fan	Motor	Type	-	Crossflow Fan		Crossflow Fan	
		Output x n	w	23 x 1		23 x 1	
	Air Flow Rate	H/M/L (UL)	CMM	7.80 / 6.80 / 5.80		7.80 / 6.80 / 5.80	
			I/s	130.00 / 113.33 / 96.67		130.00 / 113.33 / 96.67	
	External Pressure	Min/Std/Max	mmAq	-		-	
			Pa	-		-	
Piping Connections	Liquid Pipe		Ø, mm	6.35		6.35	
			Ø, inch	1/4"		1/4"	
	Gas Pipe		Ø, mm	12.70		12.70	
			Ø, inch	1/2"		1/2"	
	Drain Pipe		Ø, mm	ID18 HOSE		ID18 HOSE	
Field Wiring	Power Source Wire		mm²	1.5 - 2.5		1.5 - 2.5	
	Transmission Cable		mm²	0.75 - 1.50		0.75 - 1.50	
Refrigerant	Type		-	R410A		R410A	
	Control Method		-	EEV INCLUDED		EEV NOT INCLUDED	
Sound	Pressure	High / Mid / Low	dB(A)	31 / 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°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.

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

1 Specifications

Neo Forte

Type				Neo Forte (EEV)		Neo Forte	
Model				AM036FNQDEH/EU		AM036FNTDEH/EU	
Power Supply			Ø, #, V, Hz	1,2,220-240,50		1,2,220-240,50	
Mode			-	HP/HR		HP/HR	
Performance	Capacity (Nominal)	Cooling	kW	3.60		3.60	
			Btu/h	12,300		12,300	
		Heating	kW	4.00		4.00	
			Btu/h	13,600		13,600	
Power	Power Input (Nominal)	Cooling	W	30.00		30.00	
		Heating		30.00		30.00	
	Current Input (Nominal)	Cooling	A	0.18		0.18	
		Heating		0.18		0.18	
Fan	Motor	Type	-	Crossflow Fan		Crossflow Fan	
		Output x n	w	23 x 1		23 x 1	
	Air Flow Rate	H/M/L (UL)	CMM	9.30 / 8.30 / 7.30		9.30 / 8.30 / 7.30	
			I/s	155.00 / 138.33 / 121.67		155.00 / 138.33 / 121.67	
	External Pressure	Min/Std/Max	mmAq	-		-	
			Pa	-		-	
Piping Connections	Liquid Pipe		Ø, mm	6.35		6.35	
			Ø, inch	1/4"		1/4"	
	Gas Pipe		Ø, mm	12.70		12.70	
			Ø, inch	1/2"		1/2"	
	Drain Pipe		Ø, mm	ID18 HOSE		ID18 HOSE	
Field Wiring	Power Source Wire		mm²	1.5 - 2.5		1.5 - 2.5	
	Transmission Cable		mm²	0.75 - 1.50		0.75 - 1.50	
Refrigerant	Type		-	R410A		R410A	
	Control Method		-	EEV INCLUDED		EEV NOT INCLUDED	
Sound	Pressure	High / Mid / Low	dB(A)	37 / 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°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.

* 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	
			I/s	195.00 / 170.00 / 145.00		216.67 / 175.00 / 150.00	
	External Pressure	Min/Std/Max	mmAq	-		-	
			Pa	-		-	
Piping Connections	Liquid Pipe		Ø, mm	6.35		6.35	
			Ø, inch	1/4"		1/4"	
	Gas Pipe		Ø, mm	12.70		12.70	
			Ø, inch	1/2"		1/2"	
	Drain Pipe		Ø, mm	ID18 HOSE		ID18 HOSE	
Field Wiring	Power Source Wire		mm²	1.5 - 2.5		1.5 - 2.5	
	Transmission Cable		mm²	0.75 - 1.50		0.75 - 1.50	
Refrigerant	Type		-	R410A		R410A	
	Control Method		-	EEV INCLUDED		EEV INCLUDED	
Sound	Pressure	High / Mid / Low	dB(A)	39 / 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°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.

* 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	
			I/s	200.00 / 175.00 / 150.00		233.33 / 208.33 / 183.33	
	External Pressure	Min/Std/Max	mmAq	-		-	
			Pa	-		-	
Piping Connections	Liquid Pipe		Ø, mm	6.35		9.52	
			Ø, inch	1/4"		3/8"	
	Gas Pipe		Ø, mm	12.70		15.88	
			Ø, inch	1/2"		5/8"	
	Drain Pipe		Ø, mm	ID18 HOSE		ID18 HOSE	
Field Wiring	Power Source Wire		mm²	1.5 - 2.5		1.5 - 2.5	
	Transmission Cable		mm²	0.75 - 1.50		0.75 - 1.50	
Refrigerant	Type		-	R410A		R410A	
	Control Method		-	EEV NOT INCLUDED		EEV INCLUDED	
Sound	Pressure	High / Mid / Low	dB(A)	42 / 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°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.

* 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	
			I/s	233.33 / 208.33 / 183.33	
	External Pressure	Min/Std/Max	mmAq	-	
			Pa	-	
Piping Connections	Liquid Pipe		Ø, mm	9.52	
			Ø, inch	3/8"	
	Gas Pipe		Ø, mm	15.88	
			Ø, inch	5/8"	
	Drain Pipe		Ø, mm	ID18 HOSE	
Field Wiring	Power Source Wire		mm²	1.5 - 2.5	
	Transmission Cable		mm²	0.75 - 1.50	
Refrigerant	Type		-	R410A	
	Control Method		-	EEV NOT INCLUDED	
Sound	Pressure	High / Mid / Low	dB(A)	44 / 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°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.

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

2 Capacity table

Neo Forte

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity

Capacity Index	Outdoor Air Temp. (°C, DB)	Indoor temperature													
		20(°C, DB)		23(°C, DB)		26(°C, DB)		27(°C, DB)		28(°C, DB)		30(°C, DB)		32(°C, DB)	
		14(°C, WB)		16(°C, WB)		18(°C, WB)		19(°C, WB)		20(°C, WB)		22(°C, WB)		24(°C, WB)	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
015	10	1.0	0.9	1.2	1.0	1.4	1.0	1.5	1.0	1.6	1.0	1.7	1.1	1.8	1.0
	12	1.0	0.9	1.2	1.0	1.4	1.0	1.5	1.0	1.6	1.0	1.7	1.1	1.8	1.0
	14	1.0	0.9	1.2	1.0	1.4	1.0	1.5	1.0	1.6	1.0	1.7	1.1	1.8	1.0
	16	1.0	0.9	1.2	1.0	1.4	1.0	1.5	1.0	1.6	1.0	1.6	1.1	1.8	1.0
	18	1.0	0.9	1.2	1.0	1.4	1.0	1.5	1.0	1.6	1.0	1.6	1.1	1.8	1.0
	20	1.0	0.9	1.2	1.0	1.4	1.0	1.5	1.0	1.6	1.0	1.6	1.1	1.8	1.0
	21	1.0	0.9	1.2	1.0	1.4	1.0	1.5	1.0	1.6	1.0	1.6	1.1	1.8	1.0
	23	1.0	0.9	1.2	1.0	1.4	1.0	1.5	1.0	1.6	1.0	1.6	1.1	1.8	1.0
	25	1.0	0.9	1.2	1.0	1.4	1.0	1.5	1.0	1.6	1.0	1.6	1.1	1.8	1.0
	27	1.0	0.9	1.2	1.0	1.4	1.0	1.5	1.0	1.6	1.0	1.6	1.1	1.8	1.0
	29	1.0	0.9	1.2	1.0	1.4	1.0	1.5	1.0	1.6	1.0	1.6	1.1	1.8	1.0
	31	1.0	0.9	1.2	1.0	1.4	1.0	1.5	1.0	1.6	1.0	1.6	1.1	1.8	1.0
	33	1.0	0.9	1.2	1.0	1.4	1.0	1.5	1.0	1.6	1.0	1.6	1.1	1.8	1.0
	35	1.0	0.9	1.2	1.0	1.4	1.0	1.5	1.0	1.6	1.0	1.6	1.1	1.8	1.0
	37	1.0	0.9	1.2	1.0	1.4	1.0	1.5	1.0	1.6	1.0	1.6	1.1	1.8	1.0
	39	1.0	0.9	1.2	1.0	1.4	1.0	1.5	1.0	1.6	1.0	1.6	1.1	1.7	0.9
022	42	1.0	0.9	1.2	1.0	1.4	1.0	1.5	1.0	1.6	1.0	1.6	1.1	1.7	0.9
	44	1.0	0.9	1.2	1.0	1.4	1.0	1.4	1.0	1.5	1.0	1.5	1.0	1.6	0.8
	46	1.0	0.9	1.2	1.0	1.3	1.0	1.4	0.9	1.5	0.9	1.5	1.0	1.6	0.8
	48	1.0	0.9	1.2	1.0	1.3	0.9	1.3	0.9	1.5	0.9	1.4	1.0	1.5	0.8
	10	1.5	1.3	1.8	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.5	1.6	2.6	1.4
	12	1.5	1.3	1.8	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.5	1.6	2.6	1.4
	14	1.5	1.3	1.8	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.5	1.6	2.6	1.4
	16	1.5	1.3	1.8	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.6	1.4
	18	1.5	1.3	1.8	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.6	1.4
	20	1.5	1.3	1.8	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.6	1.4
	21	1.5	1.3	1.8	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.6	1.4
	23	1.5	1.3	1.8	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.6	1.4
	25	1.5	1.3	1.8	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.6	1.4
	27	1.5	1.3	1.8	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.6	1.4
	29	1.5	1.3	1.8	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.6	1.4
	31	1.5	1.3	1.8	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.6	1.4
028	33	1.5	1.3	1.8	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.6	1.4
	35	1.5	1.3	1.8	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.6	1.4
	37	1.5	1.3	1.8	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.6	1.4
	39	1.5	1.3	1.8	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.5	1.3
	42	1.5	1.3	1.8	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.4	1.3
	44	1.5	1.3	1.8	1.5	2.0	1.4	2.1	1.4	2.2	1.4	2.3	1.4	2.4	1.2
	46	1.5	1.3	1.8	1.5	2.0	1.4	2.0	1.4	2.1	1.4	2.2	1.4	2.3	1.2
	48	1.5	1.3	1.8	1.5	2.0	1.4	2.0	1.3	2.1	1.4	2.1	1.3	2.2	1.1
	10	1.9	1.6	2.3	1.8	2.6	2.0	2.8	1.9	2.9	1.9	3.1	1.9	3.4	1.9
	12	1.9	1.6	2.3	1.8	2.6	2.0	2.8	1.9	2.9	1.9	3.1	1.9	3.3	1.8
	14	1.9	1.6	2.3	1.8	2.6	2.0	2.8	1.9	2.9	1.9	3.1	1.9	3.3	1.8
	16	1.9	1.6	2.3	1.8	2.6	2.0	2.8	1.9	2.9	1.9	3.1	1.9	3.3	1.8
	18	1.9	1.6	2.3	1.8	2.6	2.0	2.8	1.9	2.9	1.9	3.1	1.9	3.3	1.8
	20	1.9	1.6	2.3	1.8	2.6	2.0	2.8	1.9	2.9	1.9	3.1	1.9	3.3	1.8
	21	1.9	1.6	2.3	1.8	2.6	2.0	2.8	1.9	2.9	1.9	3.1	1.9	3.3	1.8
	23	1.9	1.6	2.3	1.8	2.6	2.0	2.8	1.9	2.9	1.9	3.1	1.9	3.3	1.8
	25	1.9	1.6	2.3	1.8	2.6	2.0	2.8	1.9	2.9	1.9	3.1	1.9	3.3	1.8
	27	1.9	1.6	2.3	1.8	2.6	2.0	2.8	1.9	2.9	1.9	3.1	1.9	3.3	1.8
	29	1.9	1.6	2.3	1.8	2.6	2.0	2.8	1.9	2.9	1.9	3.1	1.9	3.3	1.8
	31	1.9	1.6	2.3	1.8	2.6	2.0	2.8	1.9	2.9	1.9	3.1	1.9	3.3	1.8
	33	1.9	1.6	2.3	1.8	2.6	2.0	2.8	1.9	2.9	1.9	3.1	1.9	3.3	1.8
	35	1.9	1.6	2.3	1.8	2.6	2.0	2.8	1.9	2.9	1.9	3.1	1.9	3.3	1.8
	37	1.9	1.6	2.3	1.8	2.6	2.0	2.8	1.9	2.9	1.9	3.1	1.9	3.3	1.8
	39	1.9	1.6	2.3	1.8	2.6	2.0	2.8	1.9	2.9	1.9	3.0	1.8	3.2	1.7
	42	1.9	1.6	2.3	1.8	2.6	2.0	2.8	1.9	2.9	1.9	2.9	1.8	3.1	1.7
	44	1.9	1.6	2.3	1.8	2.5	1.9	2.7	1.8	2.8	1.8	2.8	1.7	3.0	1.6
	46	1.9	1.6	2.3	1.8	2.5	1.9	2.6	1.8	2.7	1.8	2.7	1.6	2.9	1.6
	48	1.9	1.6	2.2	1.8	2.4	1.9	2.5	1.7	2.6	1.7	2.7	1.6	2.8	1.5

2 Capacity table

Neo Forte

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity

Capacity Index	Outdoor Air Temp. (°C, DB)	Indoor temperature													
		20(°C,DB)		23(°C,DB)		26(°C,DB)		27(°C,DB)		28(°C,DB)		30(°C,DB)		32(°C,DB)	
		14(°C,WB)		16(°C,WB)		18(°C,WB)		19(°C,WB)		20(°C,WB)		22(°C,WB)		24(°C,WB)	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
036	10	2.5	2.1	2.9	2.2	3.4	2.3	3.6	2.4	3.7	2.4	4.0	2.4	4.3	2.3
	12	2.5	2.1	2.9	2.2	3.4	2.3	3.6	2.4	3.7	2.4	4.0	2.4	4.3	2.3
	14	2.5	2.1	2.9	2.2	3.4	2.3	3.6	2.4	3.7	2.4	4.0	2.4	4.3	2.3
	16	2.5	2.1	2.9	2.2	3.4	2.3	3.6	2.4	3.7	2.4	4.0	2.4	4.3	2.3
	18	2.5	2.1	2.9	2.2	3.4	2.3	3.6	2.4	3.7	2.4	4.0	2.4	4.3	2.3
	20	2.5	2.1	2.9	2.2	3.4	2.3	3.6	2.4	3.7	2.4	4.0	2.4	4.2	2.3
	21	2.5	2.1	2.9	2.2	3.4	2.3	3.6	2.4	3.7	2.4	4.0	2.4	4.2	2.3
	23	2.5	2.1	2.9	2.2	3.4	2.3	3.6	2.4	3.7	2.4	4.0	2.4	4.2	2.3
	25	2.5	2.1	2.9	2.2	3.4	2.3	3.6	2.4	3.7	2.4	4.0	2.4	4.2	2.3
	27	2.5	2.1	2.9	2.2	3.4	2.3	3.6	2.4	3.7	2.4	4.0	2.4	4.2	2.3
	29	2.5	2.1	2.9	2.2	3.4	2.3	3.6	2.4	3.7	2.4	4.0	2.4	4.2	2.3
	31	2.5	2.1	2.9	2.2	3.4	2.3	3.6	2.4	3.7	2.4	4.0	2.4	4.2	2.3
	33	2.5	2.1	2.9	2.2	3.4	2.3	3.6	2.4	3.7	2.4	4.0	2.4	4.2	2.3
	35	2.5	2.1	2.9	2.2	3.4	2.3	3.6	2.4	3.7	2.4	4.0	2.4	4.2	2.3
	37	2.5	2.1	2.9	2.2	3.4	2.3	3.6	2.4	3.7	2.4	3.9	2.3	4.2	2.3
	39	2.5	2.1	2.9	2.2	3.4	2.3	3.6	2.4	3.7	2.4	3.9	2.3	4.1	2.2
045	42	2.5	2.1	2.9	2.2	3.4	2.3	3.6	2.4	3.7	2.4	3.8	2.3	4.0	2.1
	44	2.5	2.1	2.9	2.2	3.3	2.2	3.4	2.3	3.6	2.3	3.7	2.2	3.9	2.1
	46	2.5	2.1	2.9	2.2	3.2	2.2	3.3	2.2	3.4	2.2	3.6	2.1	3.8	2.0
	48	2.5	2.1	2.8	2.2	3.2	2.1	3.2	2.2	3.4	2.2	3.5	2.0	3.6	1.9
	10	3.1	2.4	3.7	2.7	4.3	2.9	4.5	3.0	4.7	3.0	5.1	3.1	5.4	2.8
	12	3.1	2.4	3.7	2.7	4.3	2.9	4.5	3.0	4.7	3.0	5.1	3.1	5.4	2.8
	14	3.1	2.4	3.7	2.7	4.3	2.9	4.5	3.0	4.7	3.0	5.0	3.0	5.4	2.8
	16	3.1	2.4	3.7	2.7	4.3	2.9	4.5	3.0	4.7	3.0	5.0	3.0	5.3	2.8
	18	3.1	2.4	3.7	2.7	4.3	2.9	4.5	3.0	4.7	3.0	5.0	3.0	5.3	2.8
	20	3.1	2.4	3.7	2.7	4.3	2.9	4.5	3.0	4.7	3.0	5.0	3.0	5.3	2.8
	21	3.1	2.4	3.7	2.7	4.3	2.9	4.5	3.0	4.7	3.0	5.0	3.0	5.3	2.8
	23	3.1	2.4	3.7	2.7	4.3	2.9	4.5	3.0	4.7	3.0	5.0	3.0	5.3	2.8
	25	3.1	2.4	3.7	2.7	4.3	2.9	4.5	3.0	4.7	3.0	5.0	3.0	5.3	2.8
	27	3.1	2.4	3.7	2.7	4.3	2.9	4.5	3.0	4.7	3.0	5.0	3.0	5.3	2.8
	29	3.1	2.4	3.7	2.7	4.3	2.9	4.5	3.0	4.7	3.0	5.0	3.0	5.3	2.8
	31	3.1	2.4	3.7	2.7	4.3	2.9	4.5	3.0	4.7	3.0	5.0	3.0	5.3	2.8
056	33	3.1	2.4	3.7	2.7	4.3	2.9	4.5	3.0	4.7	3.0	5.0	3.0	5.3	2.8
	35	3.1	2.4	3.7	2.7	4.3	2.9	4.5	3.0	4.7	3.0	5.0	3.0	5.3	2.8
	37	3.1	2.4	3.7	2.7	4.3	2.9	4.5	3.0	4.7	3.0	4.9	2.9	5.2	2.7
	39	3.1	2.4	3.7	2.7	4.3	2.9	4.5	3.0	4.7	3.0	4.9	2.9	5.1	2.6
	42	3.1	2.4	3.7	2.7	4.2	2.9	4.4	3.0	4.6	3.0	4.8	2.9	5.0	2.5
	44	3.1	2.4	3.7	2.7	4.1	2.8	4.3	2.9	4.5	2.9	4.6	2.8	4.8	2.5
	46	3.1	2.4	3.7	2.7	4.0	2.8	4.2	2.8	4.3	2.8	4.5	2.7	4.7	2.4
	48	3.1	2.3	3.6	2.6	4.0	2.7	4.0	2.7	4.3	2.7	4.3	2.6	4.5	2.3
	10	3.9	3.0	4.6	3.4	5.3	3.7	5.6	3.8	5.8	3.8	6.3	3.9	6.7	3.6
	12	3.9	3.0	4.6	3.4	5.3	3.7	5.6	3.8	5.8	3.8	6.3	3.9	6.7	3.6
	14	3.9	3.0	4.6	3.4	5.3	3.7	5.6	3.8	5.8	3.8	6.2	3.8	6.7	3.6
	16	3.9	3.0	4.6	3.4	5.3	3.7	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.5
	18	3.9	3.0	4.6	3.4	5.3	3.7	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.5
	20	3.9	3.0	4.6	3.4	5.3	3.7	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.5
	21	3.9	3.0	4.6	3.4	5.3	3.7	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.5
	23	3.9	3.0	4.6	3.4	5.3	3.7	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.5
	25	3.9	3.0	4.6	3.4	5.3	3.7	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.5
	27	3.9	3.0	4.6	3.4	5.3	3.7	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.5
	29	3.9	3.0	4.6	3.4	5.3	3.7	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.5
	31	3.9	3.0	4.6	3.4	5.3	3.7	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.5
	33	3.9	3.0	4.6	3.4	5.3	3.7	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.5
	35	3.9	3.0	4.6	3.4	5.3	3.7	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.5
	37	3.9	3.0	4.6	3.4	5.3	3.7	5.6	3.8	5.8	3.8	6.1	3.7	6.5	3.4
	39	3.9	3.0	4.6	3.4	5.3	3.7	5.6	3.8	5.8	3.8	6.1	3.7	6.4	3.3
	42	3.9	3.0	4.6	3.4	5.3	3.7	5.5	3.7	5.7	3.8	6.0	3.6	6.2	3.2
	44	3.9	3.0	4.6	3.4	5.1	3.6	5.3	3.6	5.6	3.6	5.8	3.5	6.0	3.1
	46	3.9	3.0	4.6	3.4	5.0	3.5	5.2	3.5	5.4	3.5	5.6	3.4	5.9	3.0
	48	3.9	3.0	4.5	3.3	5.0	3.5	5.0	3.4	5.3	3.5	5.4	3.3	5.7	2.9

2 Capacity table

Neo Forte

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity

Capacity Index	Outdoor Air Temp. (°C, DB)	Indoor temperature													
		20(°C, DB)		23(°C, DB)		26(°C, DB)		27(°C, DB)		28(°C, DB)		30(°C, DB)		32(°C, DB)	
		14(°C, WB)		16(°C, WB)		18(°C, WB)		19(°C, WB)		20(°C, WB)		22(°C, WB)		24(°C, WB)	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
071	10	4.9	3.9	5.7	4.3	6.7	4.7	7.1	4.8	7.4	4.8	7.9	4.8	8.6	4.6
	12	4.9	3.9	5.7	4.3	6.7	4.7	7.1	4.8	7.4	4.8	7.9	4.8	8.5	4.5
	14	4.9	3.9	5.7	4.3	6.7	4.7	7.1	4.8	7.4	4.8	7.9	4.8	8.5	4.5
	16	4.9	3.9	5.7	4.3	6.7	4.7	7.1	4.8	7.4	4.8	7.9	4.8	8.5	4.5
	18	4.9	3.9	5.7	4.3	6.7	4.7	7.1	4.8	7.3	4.8	7.8	4.7	8.4	4.4
	20	4.9	3.9	5.7	4.3	6.7	4.7	7.1	4.8	7.3	4.8	7.8	4.7	8.4	4.4
	21	4.9	3.9	5.7	4.3	6.7	4.7	7.1	4.8	7.3	4.8	7.8	4.7	8.4	4.4
	23	4.9	3.9	5.7	4.3	6.7	4.7	7.1	4.8	7.3	4.8	7.8	4.7	8.4	4.4
	25	4.9	3.9	5.7	4.3	6.7	4.7	7.1	4.8	7.3	4.8	7.8	4.7	8.4	4.4
	27	4.9	3.9	5.7	4.3	6.7	4.7	7.1	4.8	7.3	4.8	7.8	4.7	8.4	4.4
	29	4.9	3.9	5.7	4.3	6.7	4.7	7.1	4.8	7.3	4.8	7.8	4.7	8.4	4.4
	31	4.9	3.9	5.7	4.3	6.7	4.7	7.1	4.8	7.3	4.8	7.8	4.7	8.4	4.4
	33	4.9	3.9	5.7	4.3	6.7	4.7	7.1	4.8	7.3	4.8	7.8	4.7	8.4	4.4
	35	4.9	3.9	5.7	4.3	6.7	4.7	7.1	4.8	7.3	4.8	7.8	4.7	8.4	4.4
	37	4.9	3.9	5.7	4.3	6.7	4.7	7.1	4.8	7.3	4.8	7.8	4.7	8.2	4.3
	39	4.9	3.9	5.7	4.3	6.7	4.7	7.1	4.8	7.3	4.8	7.7	4.6	8.0	4.2
	42	4.9	3.9	5.7	4.3	6.6	4.7	7.0	4.7	7.2	4.7	7.6	4.5	7.8	4.1
	44	4.9	3.9	5.7	4.3	6.5	4.5	6.8	4.6	7.0	4.6	7.3	4.3	7.6	3.9
	46	4.9	3.9	5.7	4.2	6.3	4.5	6.6	4.4	6.8	4.5	7.1	4.2	7.4	3.8
	48	4.8	3.8	5.6	4.2	6.2	4.4	6.4	4.3	6.7	4.4	6.9	4.1	7.1	3.7

2 Capacity table

Neo Forte

Heating

TC : Total Capacity

Capacity Index	Outdoor Air Temp. (°C)		Indoor temperature (°C,DB)				
			16(°C,DB)	18(°C,DB)	20(°C,DB)	22(°C,DB)	24(°C,DB)
			TC	TC	TC	TC	TC
	DB	WB	kW	kW	kW	kW	kW
015	-19.8	-20.0	1.0	1.0	1.0	1.0	1.0
	-18.8	-19.0	1.0	1.0	1.0	1.0	1.0
	-16.7	-17.0	1.1	1.1	1.1	1.1	1.1
	-14.7	-15.0	1.2	1.1	1.1	1.1	1.1
	-12.6	-13.0	1.2	1.2	1.2	1.2	1.2
	-10.5	-11.0	1.4	1.4	1.3	1.3	1.3
	-9.5	-10.0	1.4	1.4	1.3	1.3	1.3
	-8.5	-9.1	1.5	1.5	1.4	1.4	1.4
	-7.0	-7.6	1.6	1.5	1.5	1.4	1.4
	-5.0	-5.6	1.6	1.6	1.6	1.5	1.5
	-3.0	-3.7	1.7	1.7	1.6	1.6	1.5
	0.0	-0.7	1.8	1.7	1.7	1.6	1.5
	3.0	2.2	1.8	1.8	1.7	1.6	1.5
	5.0	4.1	1.9	1.8	1.7	1.6	1.5
	7.0	6.0	1.9	1.8	1.7	1.6	1.5
	9.0	7.9	2.0	1.8	1.7	1.6	1.5
022	-19.8	-20.0	1.5	1.5	1.5	1.5	1.5
	-18.8	-19.0	1.5	1.5	1.5	1.5	1.5
	-16.7	-17.0	1.6	1.6	1.6	1.6	1.6
	-14.7	-15.0	1.7	1.6	1.6	1.6	1.6
	-12.6	-13.0	1.8	1.8	1.8	1.8	1.7
	-10.5	-11.0	2.0	2.0	1.9	1.9	1.9
	-9.5	-10.0	2.1	2.0	2.0	1.9	1.9
	-8.5	-9.1	2.2	2.1	2.1	2.0	2.0
	-7.0	-7.6	2.3	2.2	2.2	2.0	2.0
	-5.0	-5.6	2.4	2.3	2.3	2.2	2.2
	-3.0	-3.7	2.5	2.5	2.4	2.3	2.2
	0.0	-0.7	2.6	2.5	2.5	2.3	2.2
	3.0	2.2	2.7	2.6	2.5	2.3	2.2
	5.0	4.1	2.8	2.7	2.5	2.3	2.2
	7.0	6.0	2.8	2.7	2.5	2.3	2.2
	9.0	7.9	3.0	2.7	2.5	2.3	2.2
028	-19.8	-20.0	1.9	1.9	1.9	1.9	1.9
	-18.8	-19.0	1.9	1.9	1.9	1.9	1.9
	-16.7	-17.0	2.0	2.0	2.0	2.0	1.9
	-14.7	-15.0	2.1	2.1	2.0	2.0	1.9
	-12.6	-13.0	2.2	2.2	2.2	2.1	2.1
	-10.5	-11.0	2.3	2.3	2.3	2.3	2.2
	-9.5	-10.0	2.3	2.3	2.3	2.3	2.2
	-8.5	-9.1	2.4	2.4	2.4	2.4	2.3
	-7.0	-7.6	2.5	2.4	2.4	2.4	2.3
	-5.0	-5.6	2.6	2.6	2.5	2.5	2.4
	-3.0	-3.7	2.8	2.7	2.7	2.6	2.5
	0.0	-0.7	2.9	2.8	2.8	2.7	2.6
	3.0	2.2	3.0	3.0	2.9	2.8	2.7
	5.0	4.1	3.2	3.1	3.1	2.9	2.7
	7.0	6.0	3.3	3.2	3.2	3.0	2.7
	9.0	7.9	3.4	3.3	3.2	3.0	2.7
	11.0	9.8	3.5	3.3	3.2	3.0	2.7
	13.0	11.8	3.6	3.4	3.2	3.0	2.7
	15.0	13.7	3.7	3.4	3.2	3.0	2.7

2 Capacity table

Neo Forte

Heating

TC : Total Capacity

Capacity Index	Outdoor Air Temp. (°C)		Indoor temperature (°C,DB)				
			16(°C,DB)	18(°C,DB)	20(°C,DB)	22(°C,DB)	24(°C,DB)
			TC	TC	TC	TC	TC
	DB	WB	kW	kW	kW	kW	kW
036	-19.8	-20.0	2.4	2.4	2.3	2.3	2.3
	-18.8	-19.0	2.5	2.4	2.3	2.3	2.3
	-16.7	-17.0	2.6	2.5	2.4	2.4	2.3
	-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
045	-19.8	-20.0	3.1	3.0	3.0	2.9	2.9
	-18.8	-19.0	3.1	3.1	3.1	3.0	3.0
	-16.7	-17.0	3.2	3.2	3.1	3.0	3.0
	-14.7	-15.0	3.3	3.3	3.2	3.1	3.0
	-12.6	-13.0	3.5	3.4	3.3	3.3	3.2
	-10.5	-11.0	3.6	3.6	3.5	3.5	3.4
	-9.5	-10.0	3.7	3.7	3.6	3.5	3.5
	-8.5	-9.1	3.8	3.7	3.7	3.6	3.5
	-7.0	-7.6	3.9	3.8	3.8	3.7	3.6
	-5.0	-5.6	4.1	4.1	4.0	3.9	3.7
	-3.0	-3.7	4.3	4.2	4.2	4.1	3.9
	0.0	-0.7	4.5	4.4	4.4	4.2	4.0
	3.0	2.2	4.7	4.7	4.6	4.4	4.2
	5.0	4.1	4.9	4.8	4.8	4.5	4.2
	7.0	6.0	5.2	5.1	5.0	4.6	4.2
	9.0	7.9	5.3	5.2	5.0	4.6	4.2
056	-19.8	-20.0	3.9	3.8	3.8	3.7	3.7
	-18.8	-19.0	3.9	3.9	3.8	3.7	3.7
	-16.7	-17.0	4.0	4.0	3.9	3.8	3.8
	-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

2 Capacity table

Neo Forte

Heating

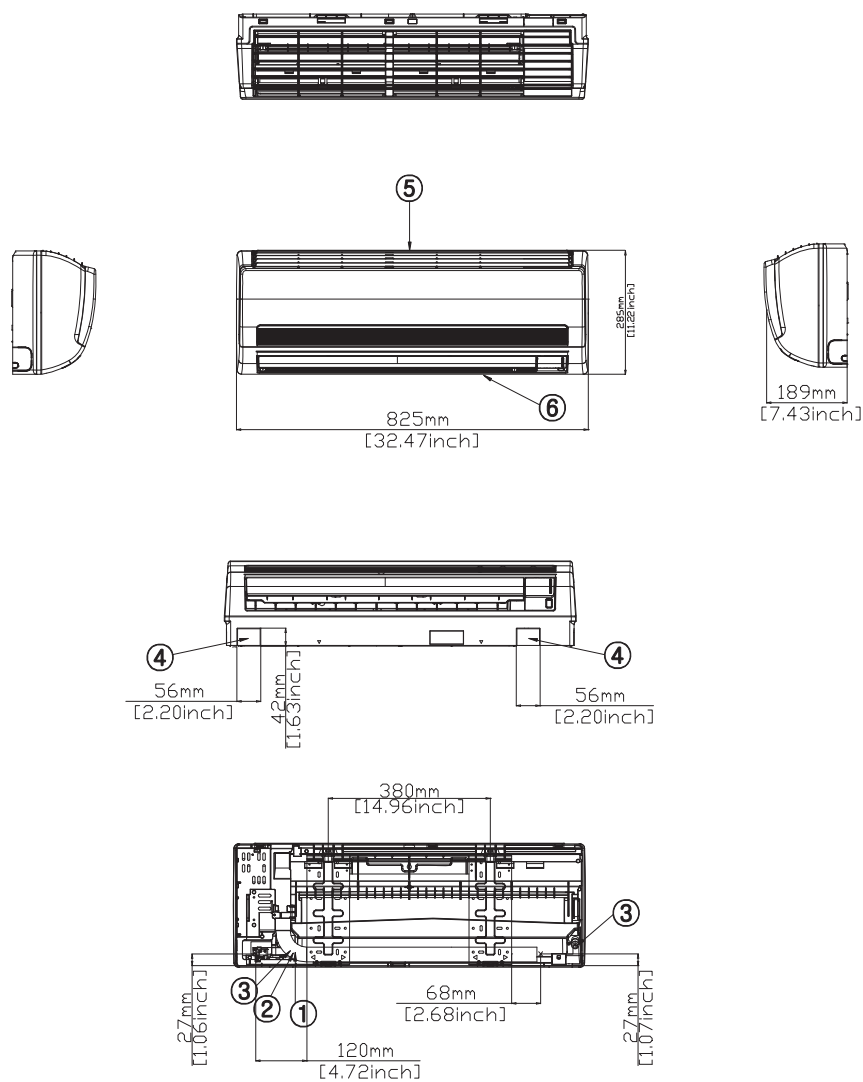
TC : Total Capacity

Capacity Index	Outdoor Air Temp. (°C)		Indoor temperature (°C,DB)				
			16(°C,DB)	18(°C,DB)	20(°C,DB)	22(°C,DB)	24(°C,DB)
			TC	TC	TC	TC	TC
	DB	WB	kW	kW	kW	kW	kW
071	-19.8	-20.0	5.0	4.9	4.8	4.8	4.8
	-18.8	-19.0	5.1	5.0	4.8	4.8	4.8
	-16.7	-17.0	5.2	5.1	4.9	4.9	4.8
	-14.7	-15.0	5.4	5.3	5.1	4.9	4.8
	-12.6	-13.0	5.6	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	5.9	5.9	5.8	5.7	5.6
	-8.5	-9.1	6.0	6.0	5.9	5.8	5.7
	-7.0	-7.6	6.2	6.2	6.1	5.9	5.8
	-5.0	-5.6	6.5	6.4	6.4	6.2	5.9
	-3.0	-3.7	6.9	6.7	6.7	6.4	6.2
	0.0	-0.7	7.2	7.1	7.0	6.7	6.4
	3.0	2.2	7.5	7.4	7.3	7.1	6.7
	5.0	4.1	7.9	7.8	7.7	7.2	6.7
	7.0	6.0	8.2	8.1	8.0	7.4	6.7
	9.0	7.9	8.5	8.2	8.0	7.4	6.7
	11.0	9.8	8.7	8.3	8.0	7.4	6.7
	13.0	11.8	9.0	8.5	8.0	7.4	6.7
	15.0	13.7	9.3	8.6	8.0	7.4	6.7

3 Dimensional drawing

Neo Forte

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

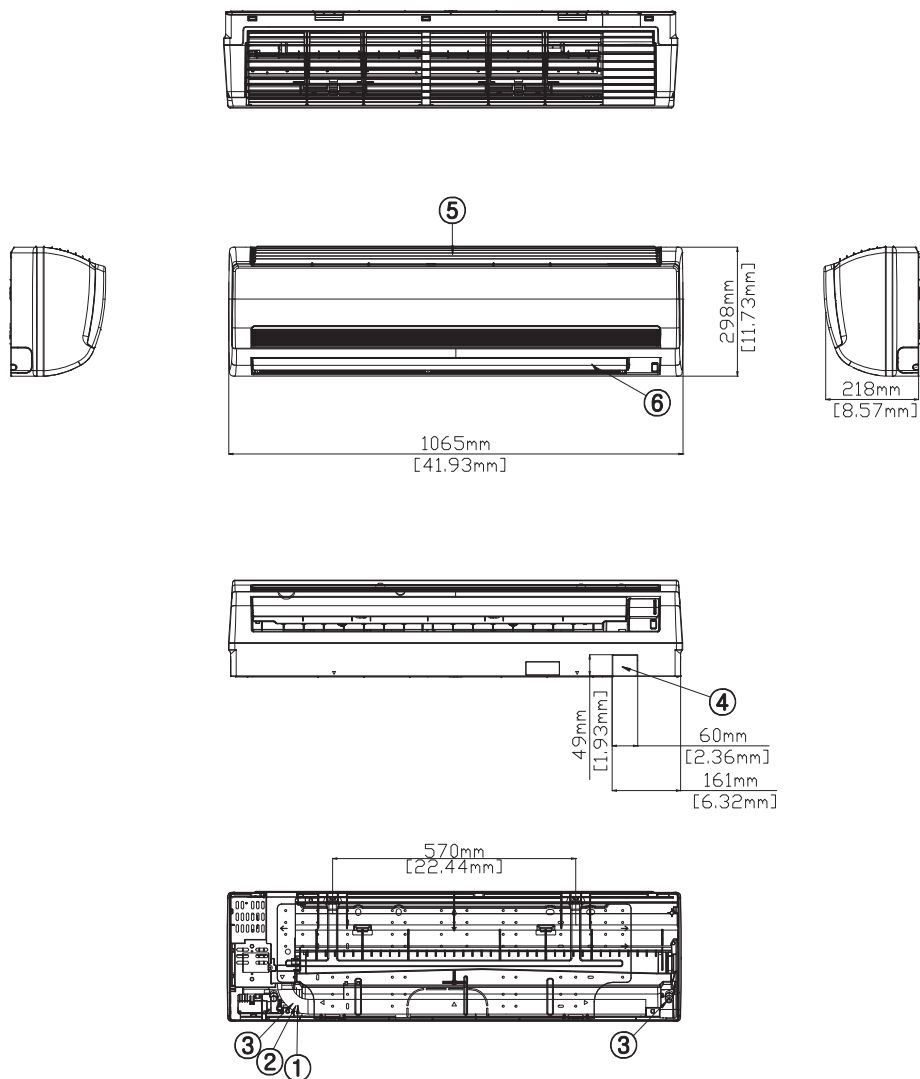


No.	Name
①	Liquid Ref. Pipe
②	Gas Ref. Pipe
③	Drain Pipe Connection
④	Conduit for power supply & Communication wiring
⑤	Air inlet grille
⑥	Air outlet louver

3 Dimensional drawing

Neo Forte

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

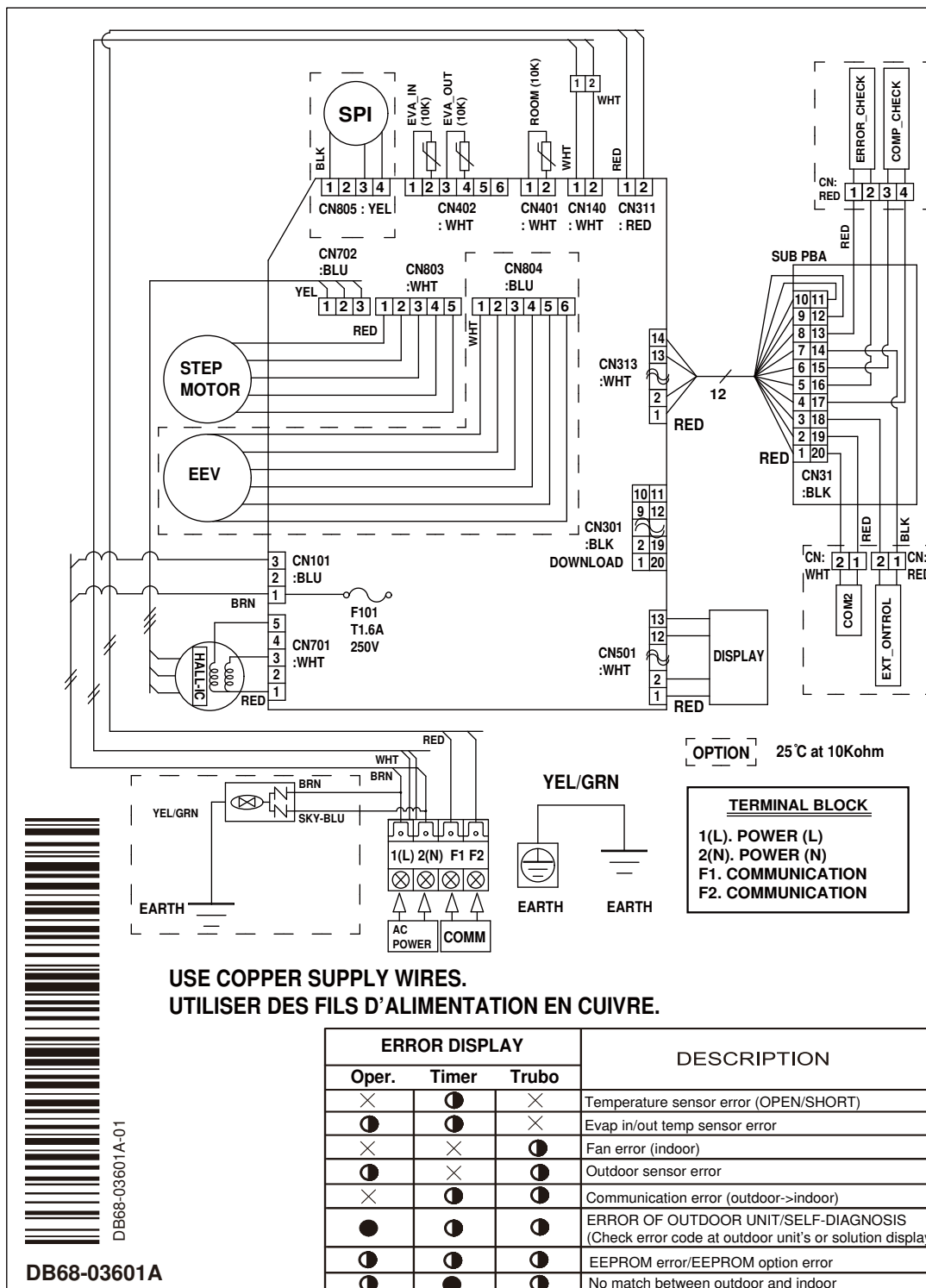


No.	Name
①	Liquid Ref. Pipe
②	Gas Ref. Pipe
③	Drain Pipe Connection
④	Conduit for power supply & Communication wiring
⑤	Air inlet grille
⑥	Air outlet louver

4 Electrical Wiring Diagram

Neo Forte

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

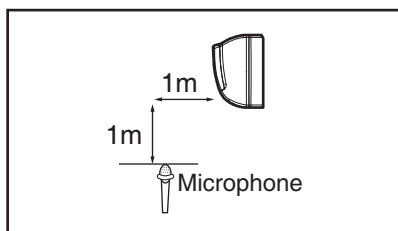


NOTE

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)

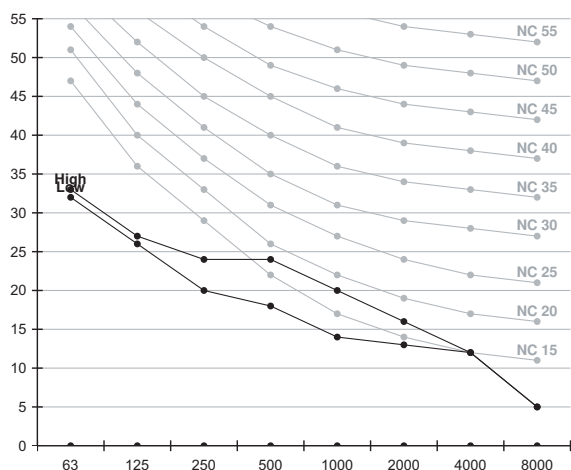
Model	High	Low
AM015HNQDEH/EU	26	24
AM015HNTDEH/EU	26	24
AM022FNQDEH/EU	31	26
AM022FNTDEH/EU	30	26

Note

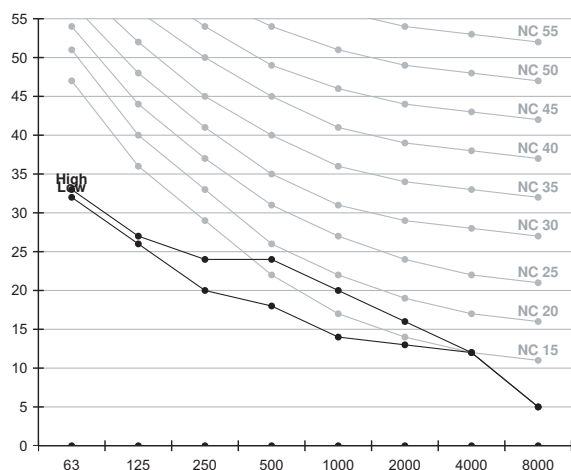
Specifications may be subject to change without prior notice.
 Sound pressure level is obtained in an anechoic room.
 Sound pressure level is a relative value, depending on the distance and acoustic environment.
 Sound pressure level may differ depending on operation condition.
 dBA = A-weighted sound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

NC curve

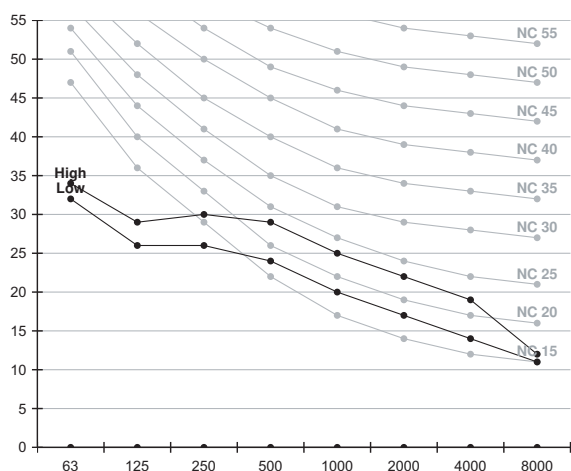
1) AM015HNQDEH/EU



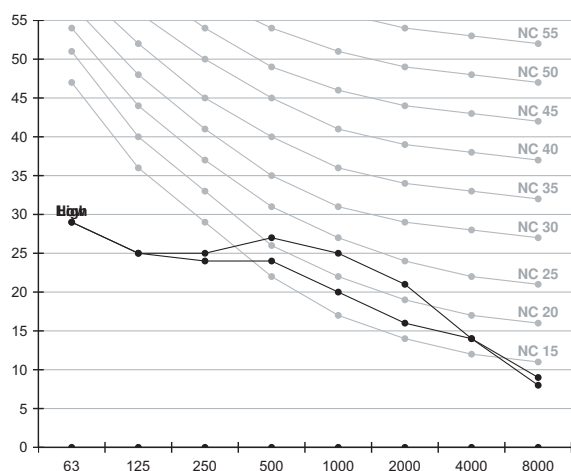
2) AM015HNTDEH/EU



3) AM022FNQDEH/EU

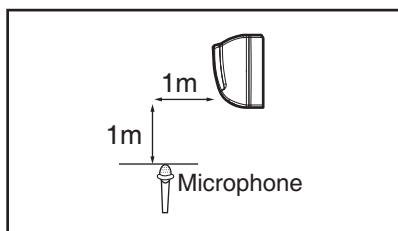


4) AM022FNTDEH/EU



5 Sound pressure level

Neo Forte



Unit: dB(A)

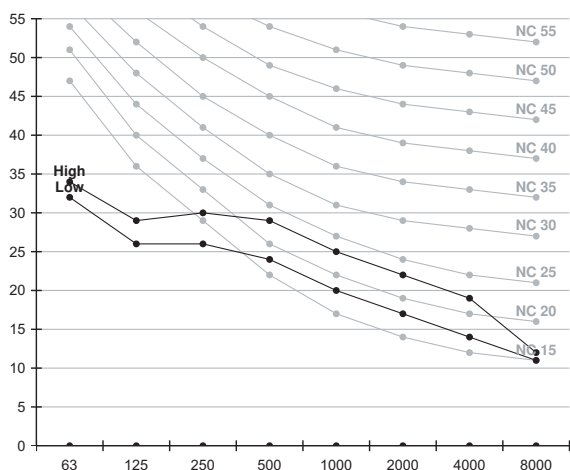
Model	High	Low
AM028FNQDEH/EU	31	26
AM028FNTDEH/EU	30	26
AM036FNQDEH/EU	37	29
AM036FNTDEH/EU	36	28

Note

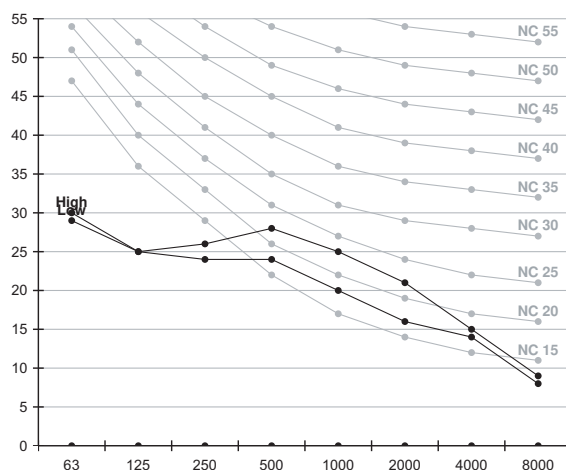
Specifications may be subject to change without prior notice.
 Sound pressure level is obtained in an anechoic room.
 Sound pressure level is a relative value, depending on the distance and acoustic environment.
 Sound pressure level may differ depending on operation condition.
 dBA = A-weighted sound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

NC curve

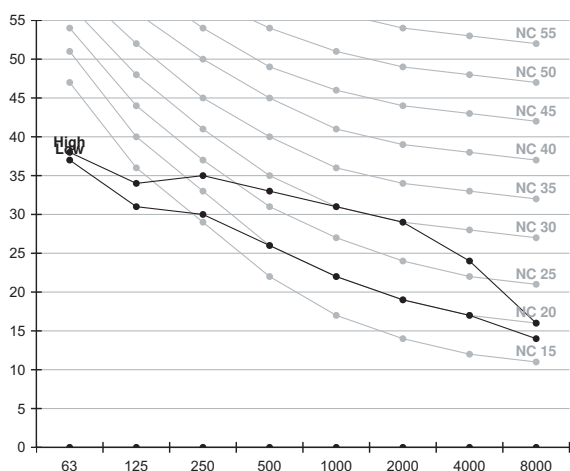
1) AM028FNQDEH/EU



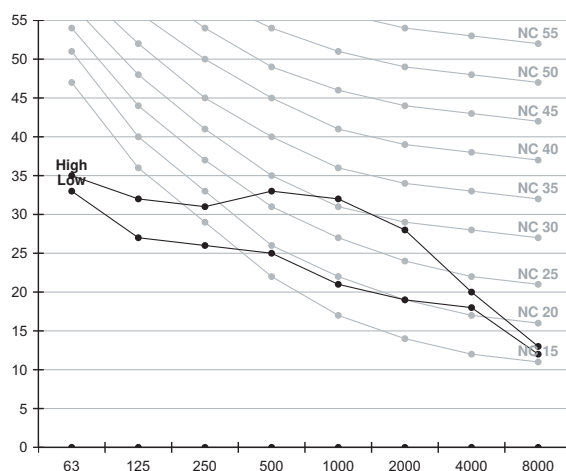
2) AM028FNTDEH/EU



3) AM036FNQDEH/EU

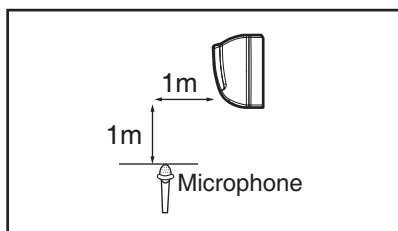


4) AM036FNTDEH/EU



5 Sound pressure level

Neo Forte



Unit: dB(A)

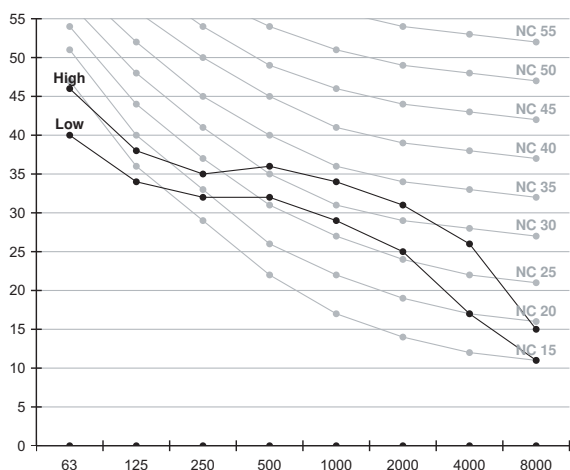
Model	High	Low
AM045FNQDEH/EU	39	34
AM056FNQDEH/EU	42	35
AM056FNTDEH/EU	42	35
AM071FNQDEH/EU	45	35

Note

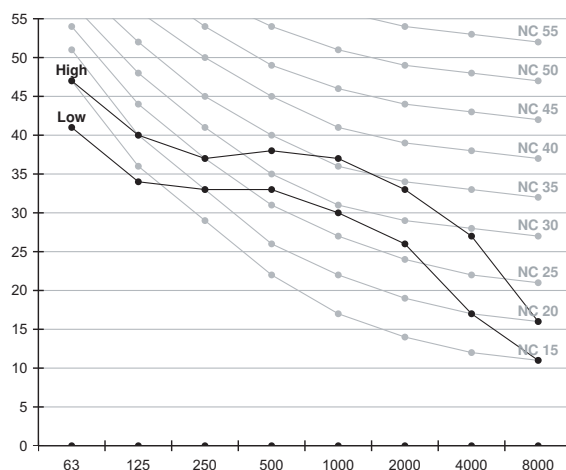
Specifications may be subject to change without prior notice.
 Sound pressure level is obtained in an anechoic room.
 Sound pressure level is a relative value, depending on the distance and acoustic environment.
 Sound pressure level may differ depending on operation condition.
 dBA = A-weighted sound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

NC curve

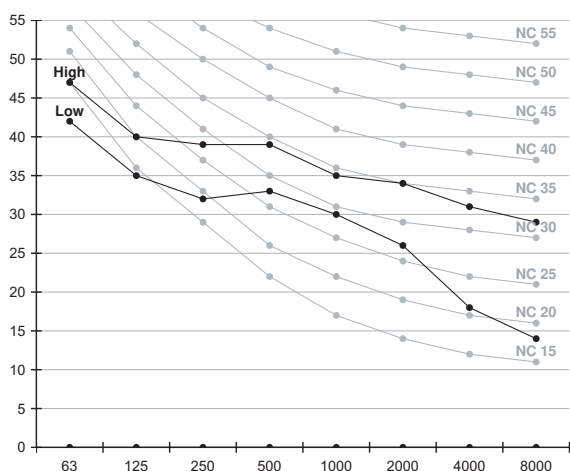
1) AM045FNQDEH/EU



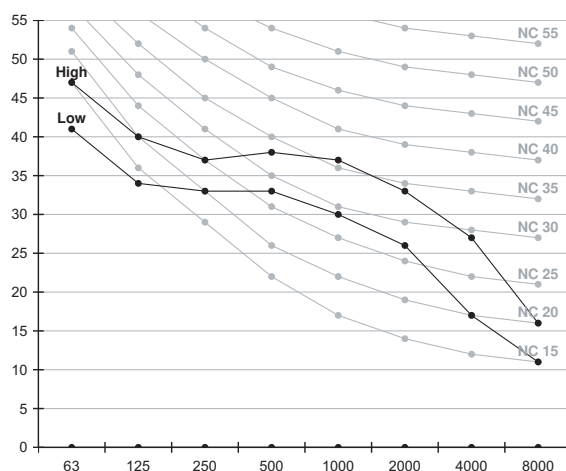
2) AM056FNQDEH/EU



3) AM056FNTDEH/EU

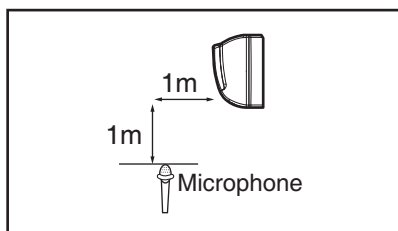


4) AM071FNQDEH/EU



5 Sound pressure level

Neo Forte



Unit: dB(A)

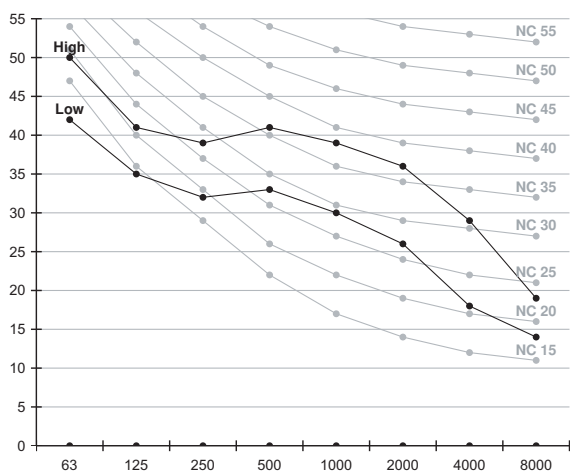
Model	High	Low
AM071FNTDEH/EU	44	35

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

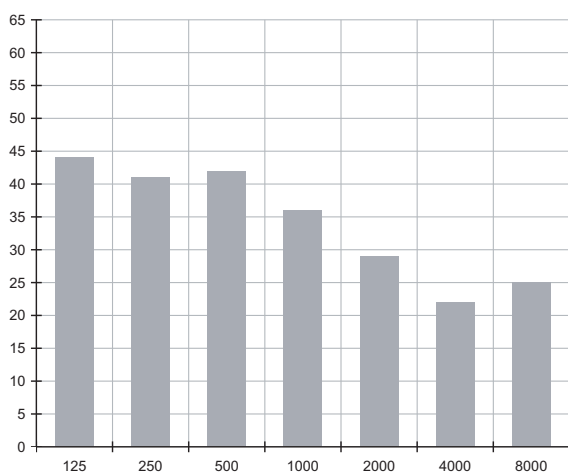
Note

- . 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

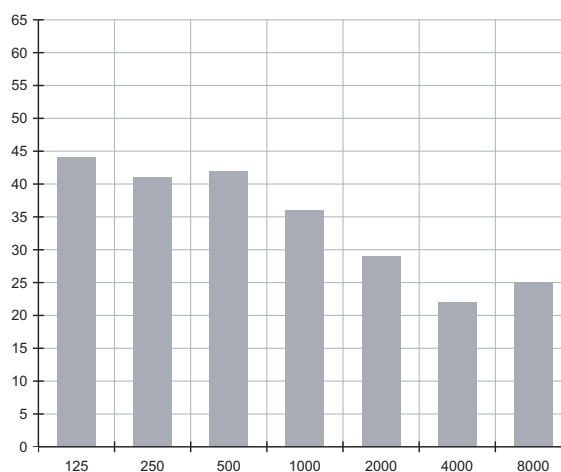
Unit: dB(A)

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

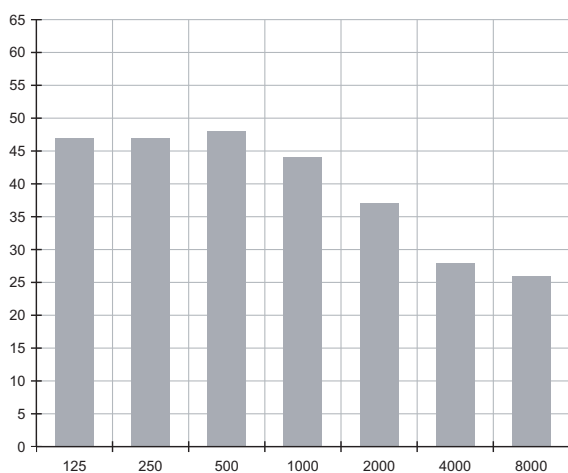
1)AM015HNQDEH/EU



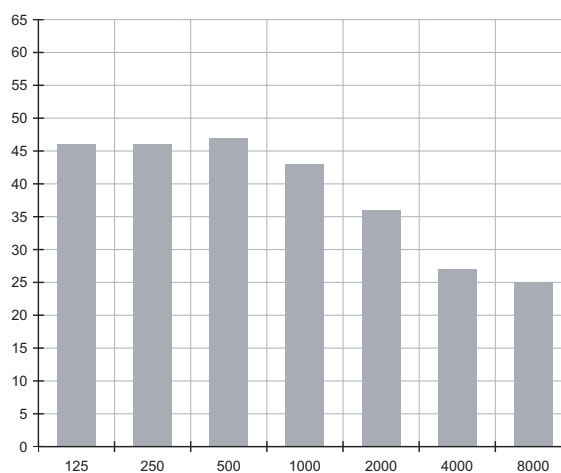
2)AM015HNTDEH/EU



3)AM022FNQDEH/EU



4)AM022FNTDEH/EU



6 Sound power level

Neo Forte

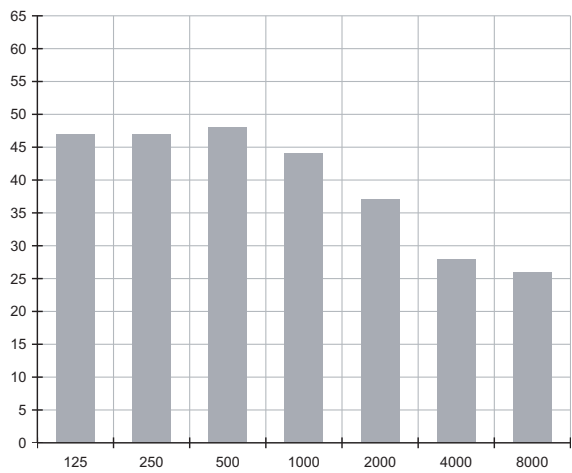
Note

- . 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

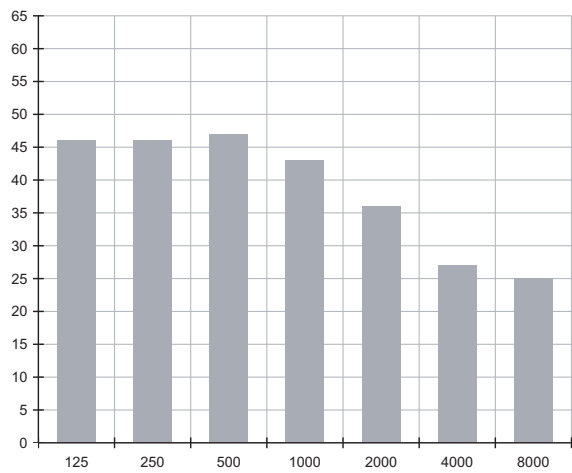
Unit: dB(A)

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

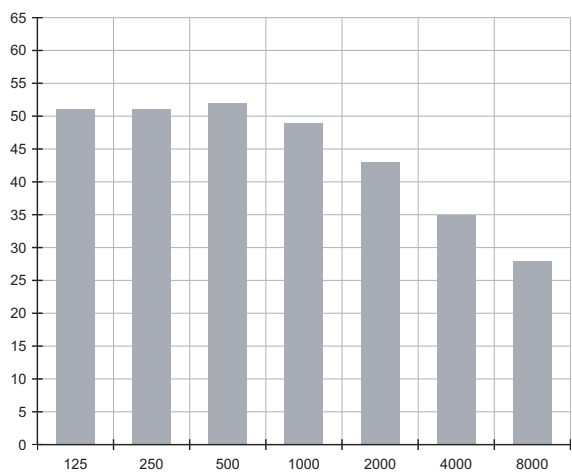
1)AM028FNQDEH/EU



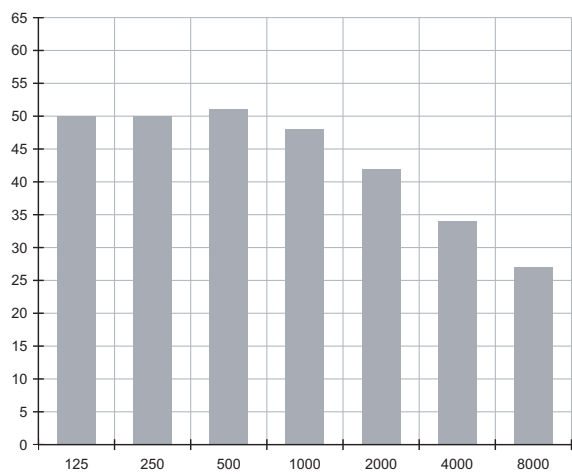
2)AM028FNTDEH/EU



3)AM036FNQDEH/EU



4)AM036FNTDEH/EU



6 Sound power level

Neo Forte

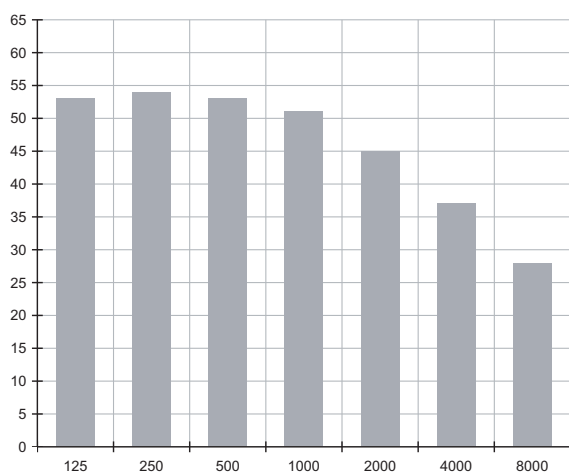
Note

- . 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

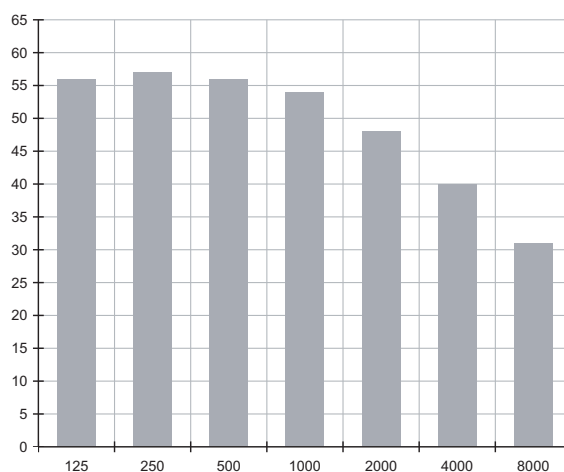
Unit: dB(A)

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

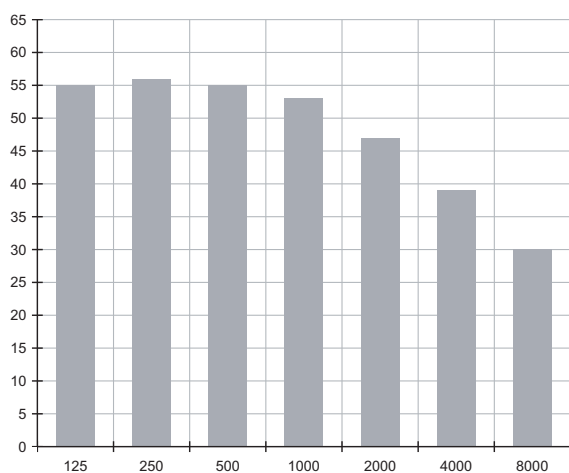
1)AM045FNQDEH/EU



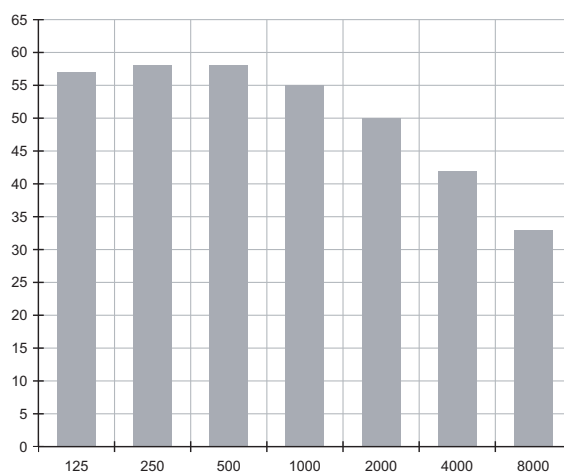
2)AM056FNQDEH/EU



3)AM056FNTDEH/EU



4)AM071FNQDEH/EU



6 Sound power level

Neo Forte

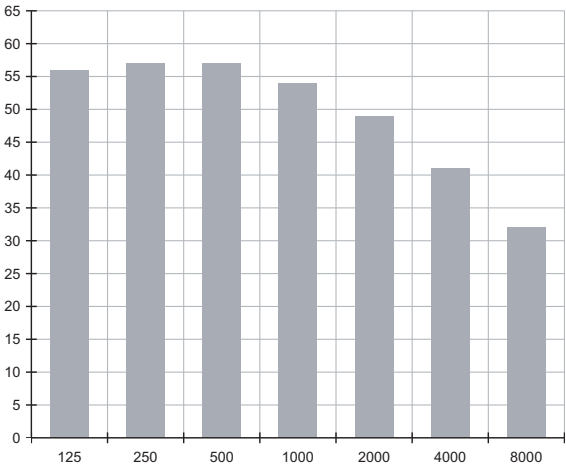
Note

- . 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



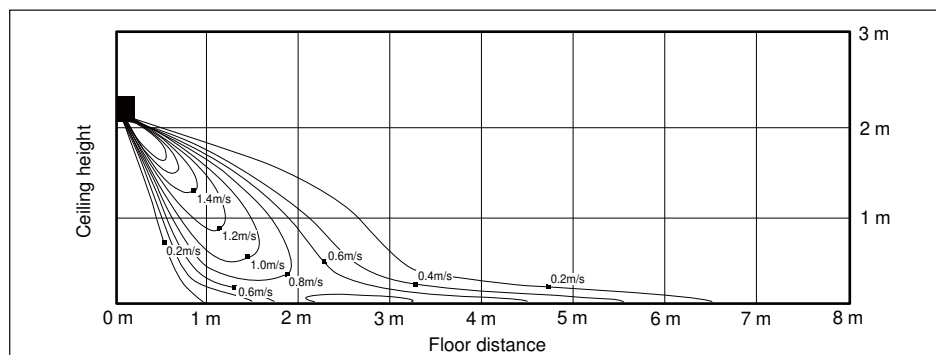
7 Temperature and air flow distribution

Neo Forte

AM036FNTDEH/EU, AM036FNQDEH/EU

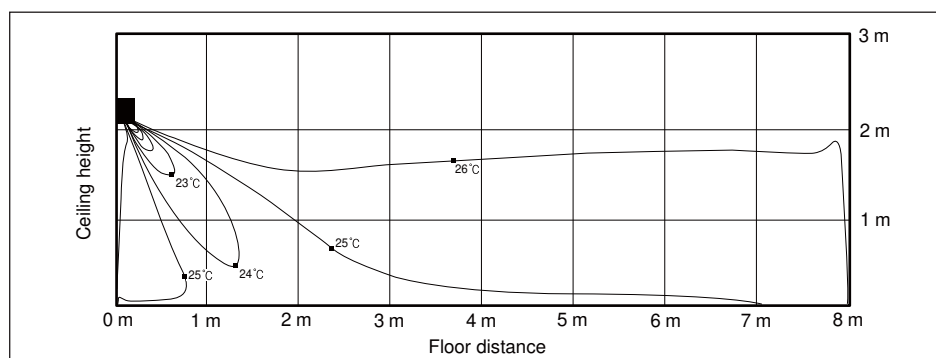
(1) Cooling air velocity distribution

Discharge angle : 60°



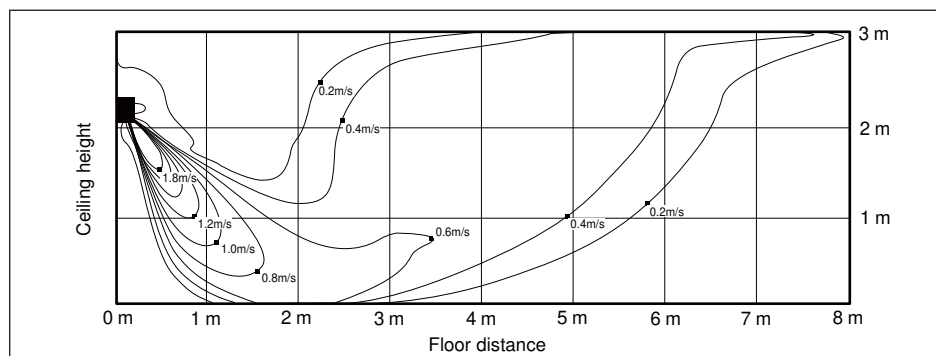
(2) Cooling temperature distribution

Discharge angle : 60°



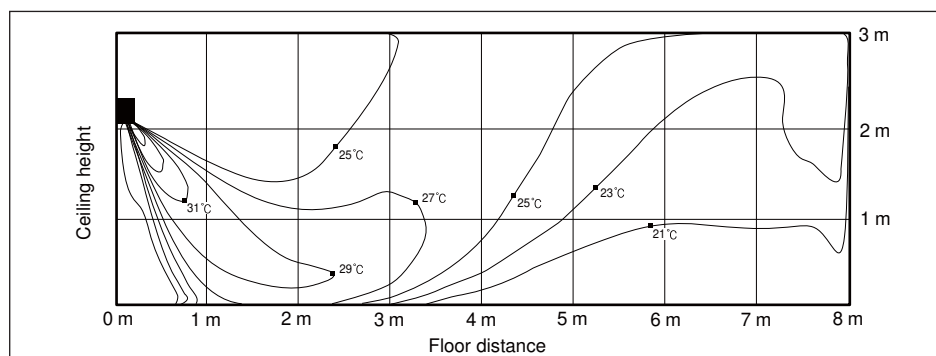
(3) Heating air velocity distribution

Discharge angle : 60°



(4) Heating temperature distribution

Discharge angle : 60°



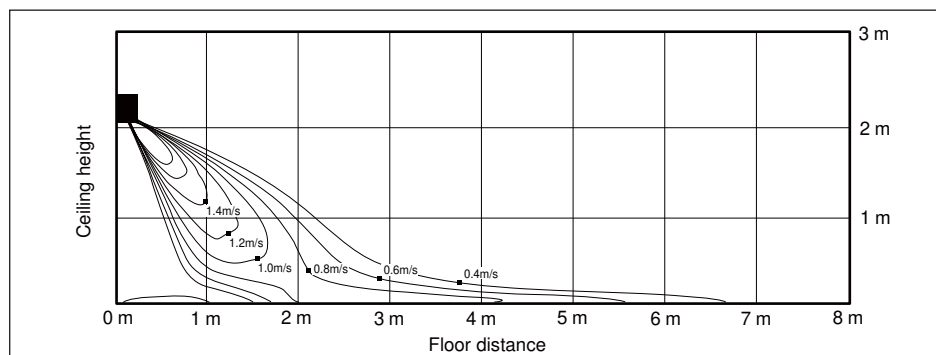
7 Temperature and air flow distribution

Neo Forte

AM071FNTDEH/EU, AM071FNQDEH/EU

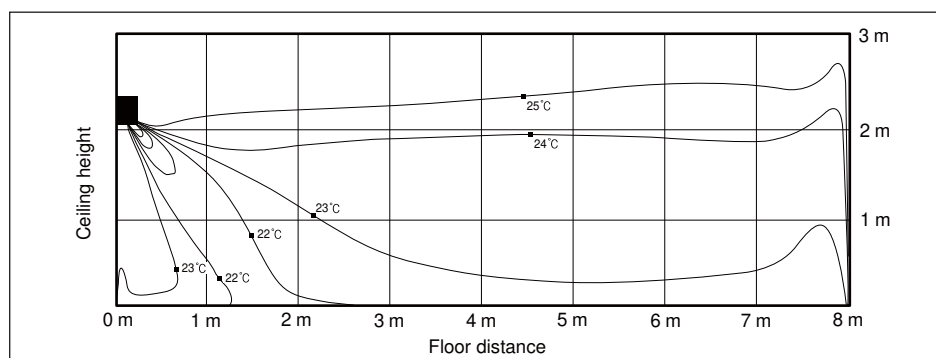
(1) Cooling air velocity distribution

Discharge angle : 60°



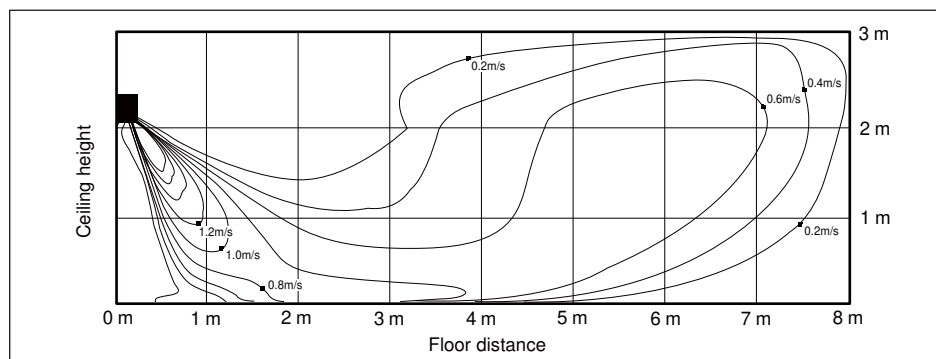
(2) Cooling temperature distribution

Discharge angle : 60°



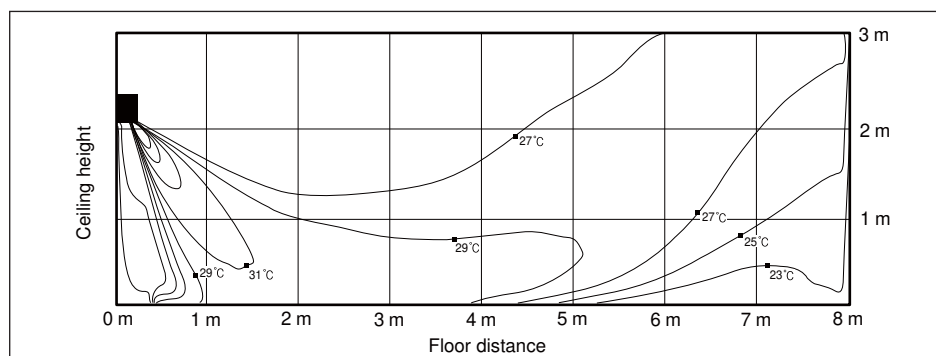
(3) Heating air velocity distribution

Discharge angle : 60°



(4) Heating temperature distribution

Discharge angle : 60°



AR5000

- 1 *Specifications*
- 2 *Capacity Table*
- 3 *Dimensional Drawing*
- 4 *Electrical Wiring Diagram*
- 5 *Sound Pressure Level*
- 6 *Sound Power Level*
- 7 *Temperature and air flow distribution*

1 Specifications

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)

1 Specifications

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

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

Capacity Index	Outdoor Air Temp. (°C, DB)	Indoor temperature													
		20(°C, DB)		23(°C, DB)		26(°C, DB)		27(°C, DB)		28(°C, DB)		30(°C, DB)		32(°C, DB)	
		14(°C, WB)		16(°C, WB)		18(°C, WB)		19(°C, WB)		20(°C, WB)		22(°C, WB)		24(°C, WB)	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
015	10	1.0	0.9	1.2	1.0	1.4	1.0	1.5	1.0	1.6	1.0	1.7	1.1	1.8	1.0
	12	1.0	0.9	1.2	1.0	1.4	1.0	1.5	1.0	1.6	1.0	1.7	1.1	1.8	1.0
	14	1.0	0.9	1.2	1.0	1.4	1.0	1.5	1.0	1.6	1.0	1.7	1.1	1.8	1.0
	16	1.0	0.9	1.2	1.0	1.4	1.0	1.5	1.0	1.6	1.0	1.6	1.1	1.8	1.0
	18	1.0	0.9	1.2	1.0	1.4	1.0	1.5	1.0	1.6	1.0	1.6	1.1	1.8	1.0
	20	1.0	0.9	1.2	1.0	1.4	1.0	1.5	1.0	1.6	1.0	1.6	1.1	1.8	1.0
	21	1.0	0.9	1.2	1.0	1.4	1.0	1.5	1.0	1.6	1.0	1.6	1.1	1.8	1.0
	23	1.0	0.9	1.2	1.0	1.4	1.0	1.5	1.0	1.6	1.0	1.6	1.1	1.8	1.0
	25	1.0	0.9	1.2	1.0	1.4	1.0	1.5	1.0	1.6	1.0	1.6	1.1	1.8	1.0
	27	1.0	0.9	1.2	1.0	1.4	1.0	1.5	1.0	1.6	1.0	1.6	1.1	1.8	1.0
	29	1.0	0.9	1.2	1.0	1.4	1.0	1.5	1.0	1.6	1.0	1.6	1.1	1.8	1.0
	31	1.0	0.9	1.2	1.0	1.4	1.0	1.5	1.0	1.6	1.0	1.6	1.1	1.8	1.0
	33	1.0	0.9	1.2	1.0	1.4	1.0	1.5	1.0	1.6	1.0	1.6	1.1	1.8	1.0
	35	1.0	0.9	1.2	1.0	1.4	1.0	1.5	1.0	1.6	1.0	1.6	1.1	1.8	1.0
	37	1.0	0.9	1.2	1.0	1.4	1.0	1.5	1.0	1.6	1.0	1.6	1.1	1.8	1.0
	39	1.0	0.9	1.2	1.0	1.4	1.0	1.5	1.0	1.6	1.0	1.6	1.1	1.7	0.9
022	42	1.0	0.9	1.2	1.0	1.4	1.0	1.5	1.0	1.6	1.0	1.6	1.1	1.7	0.9
	44	1.0	0.9	1.2	1.0	1.4	1.0	1.4	1.0	1.5	1.0	1.5	1.0	1.6	0.8
	46	1.0	0.9	1.2	1.0	1.3	1.0	1.4	0.9	1.5	0.9	1.5	1.0	1.6	0.8
	48	1.0	0.9	1.2	1.0	1.3	0.9	1.3	0.9	1.5	0.9	1.4	1.0	1.5	0.8
	10	1.5	1.3	1.8	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.5	1.6	2.6	1.4
	12	1.5	1.3	1.8	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.5	1.6	2.6	1.4
	14	1.5	1.3	1.8	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.5	1.6	2.6	1.4
	16	1.5	1.3	1.8	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.6	1.4
	18	1.5	1.3	1.8	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.6	1.4
	20	1.5	1.3	1.8	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.6	1.4
	21	1.5	1.3	1.8	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.6	1.4
	23	1.5	1.3	1.8	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.6	1.4
	25	1.5	1.3	1.8	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.6	1.4
	27	1.5	1.3	1.8	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.6	1.4
	29	1.5	1.3	1.8	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.6	1.4
	31	1.5	1.3	1.8	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.6	1.4
028	33	1.5	1.3	1.8	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.6	1.4
	35	1.5	1.3	1.8	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.6	1.4
	37	1.5	1.3	1.8	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.6	1.4
	39	1.5	1.3	1.8	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.5	1.3
	42	1.5	1.3	1.8	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.4	1.3
	44	1.5	1.3	1.8	1.5	2.0	1.4	2.1	1.4	2.2	1.4	2.3	1.4	2.4	1.2
	46	1.5	1.3	1.8	1.5	2.0	1.4	2.0	1.4	2.1	1.4	2.2	1.4	2.3	1.2
	48	1.5	1.3	1.8	1.5	2.0	1.4	2.0	1.3	2.1	1.4	2.1	1.3	2.2	1.1
	10	1.9	1.6	2.3	1.8	2.6	2.0	2.8	1.9	2.9	1.9	3.1	1.9	3.4	1.9
	12	1.9	1.6	2.3	1.8	2.6	2.0	2.8	1.9	2.9	1.9	3.1	1.9	3.3	1.8
	14	1.9	1.6	2.3	1.8	2.6	2.0	2.8	1.9	2.9	1.9	3.1	1.9	3.3	1.8
	16	1.9	1.6	2.3	1.8	2.6	2.0	2.8	1.9	2.9	1.9	3.1	1.9	3.3	1.8
	18	1.9	1.6	2.3	1.8	2.6	2.0	2.8	1.9	2.9	1.9	3.1	1.9	3.3	1.8
	20	1.9	1.6	2.3	1.8	2.6	2.0	2.8	1.9	2.9	1.9	3.1	1.9	3.3	1.8
	21	1.9	1.6	2.3	1.8	2.6	2.0	2.8	1.9	2.9	1.9	3.1	1.9	3.3	1.8
	23	1.9	1.6	2.3	1.8	2.6	2.0	2.8	1.9	2.9	1.9	3.1	1.9	3.3	1.8
	25	1.9	1.6	2.3	1.8	2.6	2.0	2.8	1.9	2.9	1.9	3.1	1.9	3.3	1.8
	27	1.9	1.6	2.3	1.8	2.6	2.0	2.8	1.9	2.9	1.9	3.1	1.9	3.3	1.8
	29	1.9	1.6	2.3	1.8	2.6	2.0	2.8	1.9	2.9	1.9	3.1	1.9	3.3	1.8
	31	1.9	1.6	2.3	1.8	2.6	2.0	2.8	1.9	2.9	1.9	3.1	1.9	3.3	1.8
	33	1.9	1.6	2.3	1.8	2.6	2.0	2.8	1.9	2.9	1.9	3.1	1.9	3.3	1.8
	35	1.9	1.6	2.3	1.8	2.6	2.0	2.8	1.9	2.9	1.9	3.1	1.9	3.3	1.8
	37	1.9	1.6	2.3	1.8	2.6	2.0	2.8	1.9	2.9	1.9	3.1	1.9	3.3	1.8
	39	1.9	1.6	2.3	1.8	2.6	2.0	2.8	1.9	2.9	1.9	3.0	1.8	3.2	1.7
	42	1.9	1.6	2.3	1.8	2.6	2.0	2.8	1.9	2.9	1.9	2.9	1.8	3.1	1.7
	44	1.9	1.6	2.3	1.8	2.5	1.9	2.7	1.8	2.8	1.8	2.8	1.7	3.0	1.6
	46	1.9	1.6	2.3	1.8	2.5	1.9	2.6	1.8	2.7	1.8	2.7	1.6	2.9	1.6
	48	1.9	1.6	2.2	1.8	2.4	1.9	2.5	1.7	2.6	1.7	2.7	1.6	2.8	1.5

2 Capacity table

AR5000

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity

Capacity Index	Outdoor Air Temp. (°C, DB)	Indoor temperature													
		20(°C, DB)		23(°C, DB)		26(°C, DB)		27(°C, DB)		28(°C, DB)		30(°C, DB)		32(°C, DB)	
		14(°C, WB)		16(°C, WB)		18(°C, WB)		19(°C, WB)		20(°C, WB)		22(°C, WB)		24(°C, WB)	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
036	10	2.5	2.1	2.9	2.2	3.4	2.3	3.6	2.4	3.7	2.4	4.0	2.4	4.3	2.3
	12	2.5	2.1	2.9	2.2	3.4	2.3	3.6	2.4	3.7	2.4	4.0	2.4	4.3	2.3
	14	2.5	2.1	2.9	2.2	3.4	2.3	3.6	2.4	3.7	2.4	4.0	2.4	4.3	2.3
	16	2.5	2.1	2.9	2.2	3.4	2.3	3.6	2.4	3.7	2.4	4.0	2.4	4.3	2.3
	18	2.5	2.1	2.9	2.2	3.4	2.3	3.6	2.4	3.7	2.4	4.0	2.4	4.3	2.3
	20	2.5	2.1	2.9	2.2	3.4	2.3	3.6	2.4	3.7	2.4	4.0	2.4	4.2	2.3
	21	2.5	2.1	2.9	2.2	3.4	2.3	3.6	2.4	3.7	2.4	4.0	2.4	4.2	2.3
	23	2.5	2.1	2.9	2.2	3.4	2.3	3.6	2.4	3.7	2.4	4.0	2.4	4.2	2.3
	25	2.5	2.1	2.9	2.2	3.4	2.3	3.6	2.4	3.7	2.4	4.0	2.4	4.2	2.3
	27	2.5	2.1	2.9	2.2	3.4	2.3	3.6	2.4	3.7	2.4	4.0	2.4	4.2	2.3
	29	2.5	2.1	2.9	2.2	3.4	2.3	3.6	2.4	3.7	2.4	4.0	2.4	4.2	2.3
	31	2.5	2.1	2.9	2.2	3.4	2.3	3.6	2.4	3.7	2.4	4.0	2.4	4.2	2.3
	33	2.5	2.1	2.9	2.2	3.4	2.3	3.6	2.4	3.7	2.4	4.0	2.4	4.2	2.3
	35	2.5	2.1	2.9	2.2	3.4	2.3	3.6	2.4	3.7	2.4	4.0	2.4	4.2	2.3
	37	2.5	2.1	2.9	2.2	3.4	2.3	3.6	2.4	3.7	2.4	3.9	2.3	4.2	2.3
	39	2.5	2.1	2.9	2.2	3.4	2.3	3.6	2.4	3.7	2.4	3.9	2.3	4.1	2.2
	42	2.5	2.1	2.9	2.2	3.4	2.3	3.6	2.4	3.7	2.4	3.8	2.3	4.0	2.1
045	44	2.5	2.1	2.9	2.2	3.3	2.2	3.4	2.3	3.6	2.3	3.7	2.2	3.9	2.1
	46	2.5	2.1	2.9	2.2	3.2	2.2	3.3	2.2	3.4	2.2	3.6	2.1	3.8	2.0
	48	2.5	2.1	2.8	2.2	3.2	2.1	3.2	2.2	3.4	2.2	3.5	2.0	3.6	1.9
	10	3.1	2.4	3.7	2.7	4.3	2.9	4.5	3.0	4.7	3.0	5.1	3.1	5.4	2.8
	12	3.1	2.4	3.7	2.7	4.3	2.9	4.5	3.0	4.7	3.0	5.1	3.1	5.4	2.8
	14	3.1	2.4	3.7	2.7	4.3	2.9	4.5	3.0	4.7	3.0	5.0	3.0	5.4	2.8
	16	3.1	2.4	3.7	2.7	4.3	2.9	4.5	3.0	4.7	3.0	5.0	3.0	5.3	2.8
	18	3.1	2.4	3.7	2.7	4.3	2.9	4.5	3.0	4.7	3.0	5.0	3.0	5.3	2.8
	20	3.1	2.4	3.7	2.7	4.3	2.9	4.5	3.0	4.7	3.0	5.0	3.0	5.3	2.8
	21	3.1	2.4	3.7	2.7	4.3	2.9	4.5	3.0	4.7	3.0	5.0	3.0	5.3	2.8
	23	3.1	2.4	3.7	2.7	4.3	2.9	4.5	3.0	4.7	3.0	5.0	3.0	5.3	2.8
	25	3.1	2.4	3.7	2.7	4.3	2.9	4.5	3.0	4.7	3.0	5.0	3.0	5.3	2.8
	27	3.1	2.4	3.7	2.7	4.3	2.9	4.5	3.0	4.7	3.0	5.0	3.0	5.3	2.8
	29	3.1	2.4	3.7	2.7	4.3	2.9	4.5	3.0	4.7	3.0	5.0	3.0	5.3	2.8
	31	3.1	2.4	3.7	2.7	4.3	2.9	4.5	3.0	4.7	3.0	5.0	3.0	5.3	2.8
	33	3.1	2.4	3.7	2.7	4.3	2.9	4.5	3.0	4.7	3.0	5.0	3.0	5.3	2.8
	35	3.1	2.4	3.7	2.7	4.3	2.9	4.5	3.0	4.7	3.0	5.0	3.0	5.3	2.8
	37	3.1	2.4	3.7	2.7	4.3	2.9	4.5	3.0	4.7	3.0	4.9	2.9	5.2	2.7
	39	3.1	2.4	3.7	2.7	4.3	2.9	4.5	3.0	4.7	3.0	4.9	2.9	5.1	2.6
	42	3.1	2.4	3.7	2.7	4.2	2.9	4.4	3.0	4.6	3.0	4.8	2.9	5.0	2.5
	44	3.1	2.4	3.7	2.7	4.1	2.8	4.3	2.9	4.5	2.9	4.6	2.8	4.8	2.5
	46	3.1	2.4	3.7	2.7	4.0	2.8	4.2	2.8	4.3	2.8	4.5	2.7	4.7	2.4
	48	3.1	2.3	3.6	2.6	4.0	2.7	4.0	2.7	4.3	2.7	4.3	2.6	4.5	2.3
056	10	3.9	3.0	4.6	3.4	5.3	3.7	5.6	3.8	5.8	3.8	6.3	3.9	6.7	3.6
	12	3.9	3.0	4.6	3.4	5.3	3.7	5.6	3.8	5.8	3.8	6.3	3.9	6.7	3.6
	14	3.9	3.0	4.6	3.4	5.3	3.7	5.6	3.8	5.8	3.8	6.2	3.8	6.7	3.6
	16	3.9	3.0	4.6	3.4	5.3	3.7	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.5
	18	3.9	3.0	4.6	3.4	5.3	3.7	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.5
	20	3.9	3.0	4.6	3.4	5.3	3.7	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.5
	21	3.9	3.0	4.6	3.4	5.3	3.7	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.5
	23	3.9	3.0	4.6	3.4	5.3	3.7	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.5
	25	3.9	3.0	4.6	3.4	5.3	3.7	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.5
	27	3.9	3.0	4.6	3.4	5.3	3.7	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.5
	29	3.9	3.0	4.6	3.4	5.3	3.7	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.5
	31	3.9	3.0	4.6	3.4	5.3	3.7	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.5
	33	3.9	3.0	4.6	3.4	5.3	3.7	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.5
	35	3.9	3.0	4.6	3.4	5.3	3.7	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.5
	37	3.9	3.0	4.6	3.4	5.3	3.7	5.6	3.8	5.8	3.8	6.1	3.7	6.5	3.4
	39	3.9	3.0	4.6	3.4	5.3	3.7	5.6	3.8	5.8	3.8	6.1	3.7	6.4	3.3
	42	3.9	3.0	4.6	3.4	5.3	3.7	5.5	3.7	5.7	3.8	6.0	3.6	6.2	3.2
	44	3.9	3.0	4.6	3.4	5.1	3.6	5.3	3.6	5.6	3.6	5.8	3.5	6.0	3.1
	46	3.9	3.0	4.6	3.4	5.0	3.5	5.2	3.5	5.4	3.5	5.6	3.4	5.9	3.0
	48	3.9	3.0	4.5	3.3	5.0	3.5	5.0	3.4	5.3	3.5	5.4	3.3	5.7	2.9

2 Capacity table

AR5000

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity

Capacity Index	Outdoor Air Temp. (°C, DB)	Indoor temperature													
		20(°C, DB)		23(°C, DB)		26(°C, DB)		27(°C, DB)		28(°C, DB)		30(°C, DB)		32(°C, DB)	
		14(°C, WB)		16(°C, WB)		18(°C, WB)		19(°C, WB)		20(°C, WB)		22(°C, WB)		24(°C, WB)	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
071	10	4.9	3.9	5.7	4.3	6.7	4.7	7.1	4.8	7.4	4.8	7.9	4.8	8.6	4.6
	12	4.9	3.9	5.7	4.3	6.7	4.7	7.1	4.8	7.4	4.8	7.9	4.8	8.5	4.5
	14	4.9	3.9	5.7	4.3	6.7	4.7	7.1	4.8	7.4	4.8	7.9	4.8	8.5	4.5
	16	4.9	3.9	5.7	4.3	6.7	4.7	7.1	4.8	7.4	4.8	7.9	4.8	8.5	4.5
	18	4.9	3.9	5.7	4.3	6.7	4.7	7.1	4.8	7.3	4.8	7.8	4.7	8.4	4.4
	20	4.9	3.9	5.7	4.3	6.7	4.7	7.1	4.8	7.3	4.8	7.8	4.7	8.4	4.4
	21	4.9	3.9	5.7	4.3	6.7	4.7	7.1	4.8	7.3	4.8	7.8	4.7	8.4	4.4
	23	4.9	3.9	5.7	4.3	6.7	4.7	7.1	4.8	7.3	4.8	7.8	4.7	8.4	4.4
	25	4.9	3.9	5.7	4.3	6.7	4.7	7.1	4.8	7.3	4.8	7.8	4.7	8.4	4.4
	27	4.9	3.9	5.7	4.3	6.7	4.7	7.1	4.8	7.3	4.8	7.8	4.7	8.4	4.4
	29	4.9	3.9	5.7	4.3	6.7	4.7	7.1	4.8	7.3	4.8	7.8	4.7	8.4	4.4
	31	4.9	3.9	5.7	4.3	6.7	4.7	7.1	4.8	7.3	4.8	7.8	4.7	8.4	4.4
	33	4.9	3.9	5.7	4.3	6.7	4.7	7.1	4.8	7.3	4.8	7.8	4.7	8.4	4.4
	35	4.9	3.9	5.7	4.3	6.7	4.7	7.1	4.8	7.3	4.8	7.8	4.7	8.4	4.4
	37	4.9	3.9	5.7	4.3	6.7	4.7	7.1	4.8	7.3	4.8	7.8	4.7	8.2	4.3
	39	4.9	3.9	5.7	4.3	6.7	4.7	7.1	4.8	7.3	4.8	7.7	4.6	8.0	4.2
082	42	4.9	3.9	5.7	4.3	6.6	4.7	7.0	4.7	7.2	4.7	7.6	4.5	7.8	4.1
	44	4.9	3.9	5.7	4.3	6.5	4.5	6.8	4.6	7.0	4.6	7.3	4.3	7.6	3.9
	46	4.9	3.9	5.7	4.2	6.3	4.5	6.6	4.4	6.8	4.5	7.1	4.2	7.4	3.8
	48	4.8	3.8	5.6	4.2	6.2	4.4	6.4	4.3	6.7	4.4	6.9	4.1	7.1	3.7
	10	5.7	4.4	6.7	5.0	7.8	5.4	8.2	5.6	8.5	5.6	9.2	5.7	9.8	5.3
	12	5.7	4.4	6.7	5.0	7.8	5.4	8.2	5.6	8.5	5.6	9.2	5.7	9.8	5.3
	14	5.7	4.4	6.7	5.0	7.8	5.4	8.2	5.6	8.5	5.6	9.1	5.6	9.8	5.3
	16	5.7	4.4	6.7	5.0	7.8	5.4	8.2	5.6	8.5	5.6	9.1	5.6	9.7	5.1
	18	5.7	4.4	6.7	5.0	7.8	5.4	8.2	5.6	8.5	5.6	9.1	5.6	9.7	5.1
	20	5.7	4.4	6.7	5.0	7.8	5.4	8.2	5.6	8.5	5.6	9.1	5.6	9.7	5.1
	21	5.7	4.4	6.7	5.0	7.8	5.4	8.2	5.6	8.5	5.6	9.1	5.6	9.7	5.1
	23	5.7	4.4	6.7	5.0	7.8	5.4	8.2	5.6	8.5	5.6	9.1	5.6	9.7	5.1
	25	5.7	4.4	6.7	5.0	7.8	5.4	8.2	5.6	8.5	5.6	9.1	5.6	9.7	5.1
	27	5.7	4.4	6.7	5.0	7.8	5.4	8.2	5.6	8.5	5.6	9.1	5.6	9.7	5.1
	29	5.7	4.4	6.7	5.0	7.8	5.4	8.2	5.6	8.5	5.6	9.1	5.6	9.7	5.1
	31	5.7	4.4	6.7	5.0	7.8	5.4	8.2	5.6	8.5	5.6	9.1	5.6	9.7	5.1
	33	5.7	4.4	6.7	5.0	7.8	5.4	8.2	5.6	8.5	5.6	9.1	5.6	9.7	5.1
	35	5.7	4.4	6.7	5.0	7.8	5.4	8.2	5.6	8.5	5.6	9.1	5.6	9.7	5.1
	37	5.7	4.4	6.7	5.0	7.8	5.4	8.2	5.6	8.5	5.6	8.9	5.4	9.5	5.0
	39	5.7	4.4	6.7	5.0	7.8	5.4	8.2	5.6	8.5	5.6	8.9	5.4	9.4	4.8
	42	5.7	4.4	6.7	5.0	7.7	5.4	8.1	5.5	8.4	5.5	8.7	5.3	9.2	4.7
	44	5.7	4.4	6.7	5.0	7.5	5.2	7.8	5.3	8.2	5.4	8.4	5.1	8.8	4.5
	46	5.7	4.4	6.6	5.0	7.4	5.1	7.6	5.2	7.9	5.2	8.1	4.9	8.6	4.4
	48	5.6	4.3	6.6	4.9	7.3	5.0	7.4	5.0	7.8	5.1	7.9	4.8	8.3	4.2

2 Capacity table

AR5000

Heating

TC : Total Capacity

Capacity Index	Outdoor Air Temp. (°C)		Indoor temperature (°C,DB)				
			16(°C,DB)	18(°C,DB)	20(°C,DB)	22(°C,DB)	24(°C,DB)
			TC	TC	TC	TC	TC
	DB	WB	kW	kW	kW	kW	kW
015	-19.8	-20.0	1.0	1.0	1.0	1.0	1.0
	-18.8	-19.0	1.0	1.0	1.0	1.0	1.0
	-16.7	-17.0	1.1	1.1	1.1	1.1	1.1
	-14.7	-15.0	1.2	1.1	1.1	1.1	1.1
	-12.6	-13.0	1.2	1.2	1.2	1.2	1.2
	-10.5	-11.0	1.4	1.4	1.3	1.3	1.3
	-9.5	-10.0	1.4	1.4	1.3	1.3	1.3
	-8.5	-9.1	1.5	1.5	1.4	1.4	1.4
	-7.0	-7.6	1.6	1.5	1.5	1.4	1.4
	-5.0	-5.6	1.6	1.6	1.6	1.5	1.5
	-3.0	-3.7	1.7	1.7	1.6	1.6	1.5
	0.0	-0.7	1.8	1.7	1.7	1.6	1.5
	3.0	2.2	1.8	1.8	1.7	1.6	1.5
	5.0	4.1	1.9	1.8	1.7	1.6	1.5
	7.0	6.0	1.9	1.8	1.7	1.6	1.5
	9.0	7.9	2.0	1.8	1.7	1.6	1.5
022	-19.8	-20.0	1.5	1.5	1.5	1.5	1.5
	-18.8	-19.0	1.5	1.5	1.5	1.5	1.5
	-16.7	-17.0	1.6	1.6	1.6	1.6	1.6
	-14.7	-15.0	1.7	1.6	1.6	1.6	1.6
	-12.6	-13.0	1.8	1.8	1.8	1.8	1.7
	-10.5	-11.0	2.0	2.0	1.9	1.9	1.9
	-9.5	-10.0	2.1	2.0	2.0	1.9	1.9
	-8.5	-9.1	2.2	2.1	2.1	2.0	2.0
	-7.0	-7.6	2.3	2.2	2.2	2.0	2.0
	-5.0	-5.6	2.4	2.3	2.3	2.2	2.2
	-3.0	-3.7	2.5	2.5	2.4	2.3	2.2
	0.0	-0.7	2.6	2.5	2.5	2.3	2.2
	3.0	2.2	2.7	2.6	2.5	2.3	2.2
	5.0	4.1	2.8	2.7	2.5	2.3	2.2
	7.0	6.0	2.8	2.7	2.5	2.3	2.2
	9.0	7.9	3.0	2.7	2.5	2.3	2.2
028	-19.8	-20.0	1.9	1.9	1.9	1.9	1.9
	-18.8	-19.0	1.9	1.9	1.9	1.9	1.9
	-16.7	-17.0	2.0	2.0	2.0	2.0	1.9
	-14.7	-15.0	2.1	2.1	2.0	2.0	1.9
	-12.6	-13.0	2.2	2.2	2.2	2.1	2.1
	-10.5	-11.0	2.3	2.3	2.3	2.3	2.2
	-9.5	-10.0	2.3	2.3	2.3	2.3	2.2
	-8.5	-9.1	2.4	2.4	2.4	2.4	2.3
	-7.0	-7.6	2.5	2.4	2.4	2.4	2.3
	-5.0	-5.6	2.6	2.6	2.5	2.5	2.4
	-3.0	-3.7	2.8	2.7	2.7	2.6	2.5
	0.0	-0.7	2.9	2.8	2.8	2.7	2.6
	3.0	2.2	3.0	3.0	2.9	2.8	2.7
	5.0	4.1	3.2	3.1	3.1	2.9	2.7
	7.0	6.0	3.3	3.2	3.2	3.0	2.7
	9.0	7.9	3.4	3.3	3.2	3.0	2.7
	11.0	9.8	3.5	3.3	3.2	3.0	2.7
	13.0	11.8	3.6	3.4	3.2	3.0	2.7
	15.0	13.7	3.7	3.4	3.2	3.0	2.7

2 Capacity table

AR5000

Heating

TC : Total Capacity

Capacity Index	Outdoor Air Temp. (°C)		Indoor temperature (°C,DB)				
			16(°C,DB)	18(°C,DB)	20(°C,DB)	22(°C,DB)	24(°C,DB)
	DB	WB	TC	TC	TC	TC	TC
036			kW	kW	kW	kW	kW
	-19.8	-20.0	2.4	2.4	2.3	2.3	2.3
	-18.8	-19.0	2.5	2.4	2.3	2.3	2.3
	-16.7	-17.0	2.6	2.5	2.4	2.4	2.3
	-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
045							
	-19.8	-20.0	3.1	3.0	3.0	2.9	2.9
	-18.8	-19.0	3.1	3.1	3.1	3.0	3.0
	-16.7	-17.0	3.2	3.2	3.1	3.0	3.0
	-14.7	-15.0	3.3	3.3	3.2	3.1	3.0
	-12.6	-13.0	3.5	3.4	3.3	3.3	3.2
	-10.5	-11.0	3.6	3.6	3.5	3.5	3.4
	-9.5	-10.0	3.7	3.7	3.6	3.5	3.5
	-8.5	-9.1	3.8	3.7	3.7	3.6	3.5
	-7.0	-7.6	3.9	3.8	3.8	3.7	3.6
	-5.0	-5.6	4.1	4.1	4.0	3.9	3.7
	-3.0	-3.7	4.3	4.2	4.2	4.1	3.9
	0.0	-0.7	4.5	4.4	4.4	4.2	4.0
	3.0	2.2	4.7	4.7	4.6	4.4	4.2
	5.0	4.1	4.9	4.8	4.8	4.5	4.2
	7.0	6.0	5.2	5.1	5.0	4.6	4.2
	9.0	7.9	5.3	5.2	5.0	4.6	4.2
	11.0	9.8	5.5	5.2	5.0	4.6	4.2
	13.0	11.8	5.6	5.3	5.0	4.6	4.2
	15.0	13.7	5.8	5.4	5.0	4.6	4.2
056							
	-19.8	-20.0	3.9	3.8	3.8	3.7	3.7
	-18.8	-19.0	3.9	3.9	3.8	3.7	3.7
	-16.7	-17.0	4.0	4.0	3.9	3.8	3.8
	-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

2 Capacity table

AR5000

Heating

TC : Total Capacity

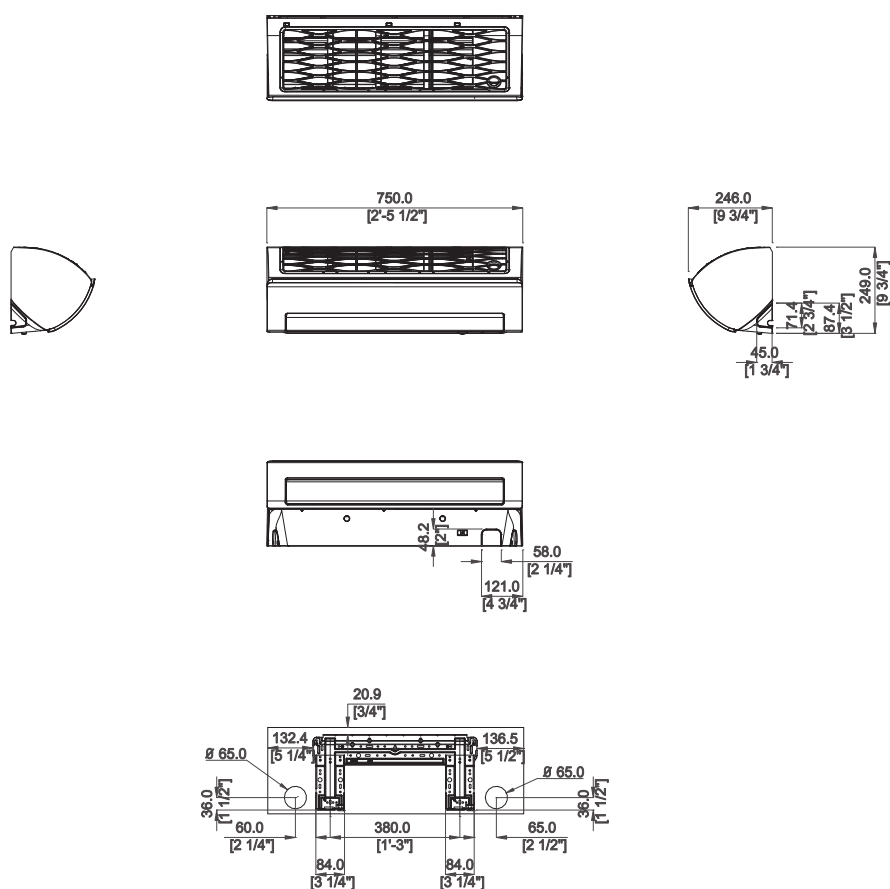
Capacity Index	Outdoor Air Temp. (°C)		Indoor temperature (°C,DB)				
			16(°C,DB)	18(°C,DB)	20(°C,DB)	22(°C,DB)	24(°C,DB)
			TC	TC	TC	TC	TC
	DB	WB	kW	kW	kW	kW	kW
071	-19.8	-20.0	5.0	4.9	4.8	4.8	4.8
	-18.8	-19.0	5.1	5.0	4.8	4.8	4.8
	-16.7	-17.0	5.2	5.1	4.9	4.9	4.8
	-14.7	-15.0	5.4	5.3	5.1	4.9	4.8
	-12.6	-13.0	5.6	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	5.9	5.9	5.8	5.7	5.6
	-8.5	-9.1	6.0	6.0	5.9	5.8	5.7
	-7.0	-7.6	6.2	6.2	6.1	5.9	5.8
	-5.0	-5.6	6.5	6.4	6.4	6.2	5.9
	-3.0	-3.7	6.9	6.7	6.7	6.4	6.2
	0.0	-0.7	7.2	7.1	7.0	6.7	6.4
	3.0	2.2	7.5	7.4	7.3	7.1	6.7
	5.0	4.1	7.9	7.8	7.7	7.2	6.7
	7.0	6.0	8.2	8.1	8.0	7.4	6.7
	9.0	7.9	8.5	8.2	8.0	7.4	6.7
082	11.0	9.8	8.7	8.3	8.0	7.4	6.7
	13.0	11.8	9.0	8.5	8.0	7.4	6.7
	15.0	13.7	9.3	8.6	8.0	7.4	6.7
	-19.8	-20.0	5.3	5.1	5.1	5.0	5.0
	-18.8	-19.0	5.3	5.2	5.2	5.0	5.0
	-16.7	-17.0	5.4	5.4	5.3	5.1	5.1
	-14.7	-15.0	5.7	5.5	5.4	5.3	5.1
	-12.6	-13.0	5.9	5.7	5.6	5.6	5.4
	-10.5	-11.0	6.1	6.1	6.0	5.9	5.8
	-9.5	-10.0	6.3	6.3	6.2	6.0	5.9
	-8.5	-9.1	6.4	6.4	6.3	6.1	6.0
	-7.0	-7.6	6.6	6.5	6.5	6.3	6.1
	-5.0	-5.6	7.0	6.9	6.7	6.6	6.3
	-3.0	-3.7	7.3	7.2	7.2	6.9	6.6
	0.0	-0.7	7.7	7.6	7.4	7.2	6.7
	3.0	2.2	8.0	8.0	7.8	7.6	7.2
	5.0	4.1	8.4	8.2	8.1	7.7	7.2
	7.0	6.0	8.8	8.6	8.5	7.8	7.2
	9.0	7.9	9.0	8.8	8.5	7.8	7.2
	11.0	9.8	9.3	8.9	8.5	7.8	7.2
	13.0	11.8	9.6	9.0	8.5	7.8	7.2
	15.0	13.7	9.8	9.2	8.5	7.8	7.2

3 Dimensional drawing

AR5000

AM015/022/028JN*DKH***

Units : mm / inches



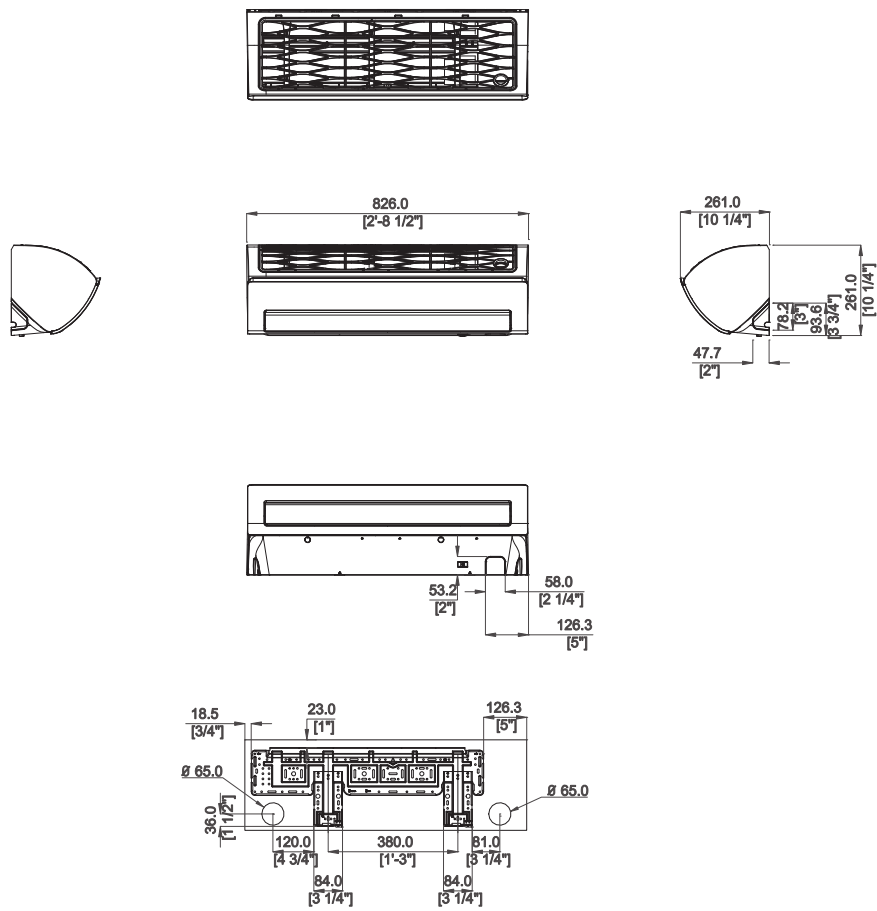
No.	Name	Description		
		1.5kW	2.2kW	2.8kW
1	Refrigerant gas pipe	Ø12.7 Flare		
2	Refrigerant liquid pipe	Ø6.35 Flare		
3	Drain pipe connection	ID 18 Hose		

3

AR5000

AM036/045JN*DKH***

Units : mm / inches



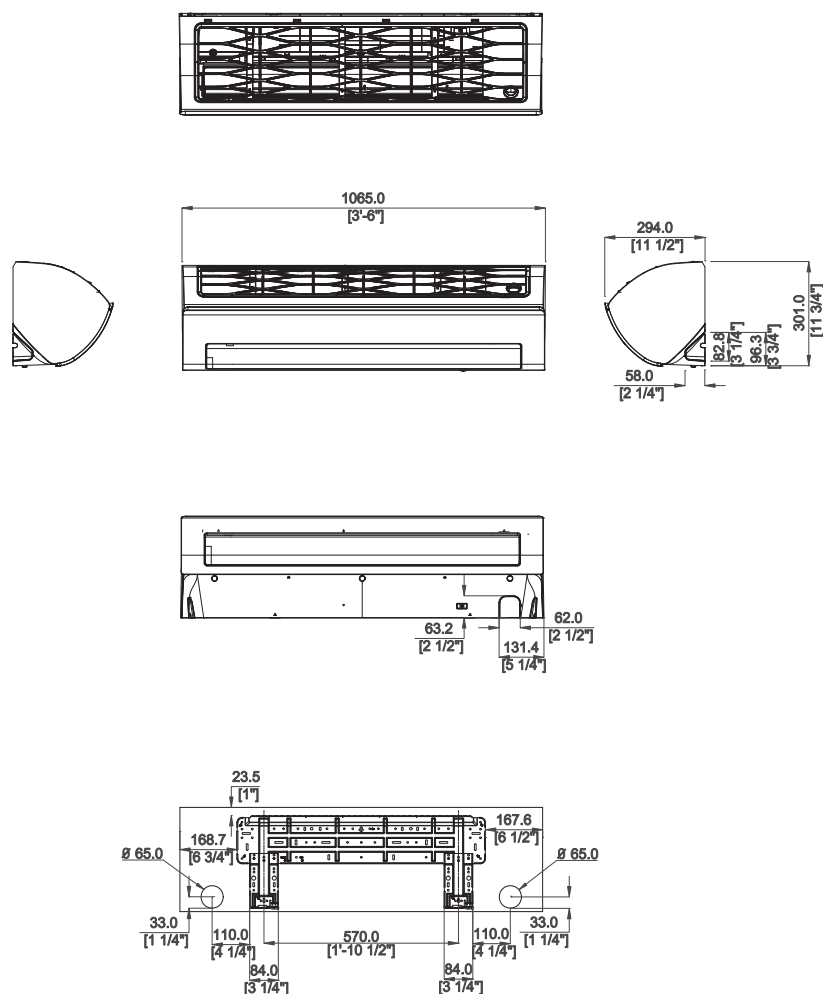
No.	Name	Description	
		3.6kW	4.5kW
1	Refrigerant gas pipe	Ø12.7 Flare	
2	Refrigerant liquid pipe	Ø6.35 Flare	
3	Drain pipe connection	ID 18 Hose	

3 Dimensional drawing

AR5000

AM056/071/082JN*DKH***

Units : mm / inches

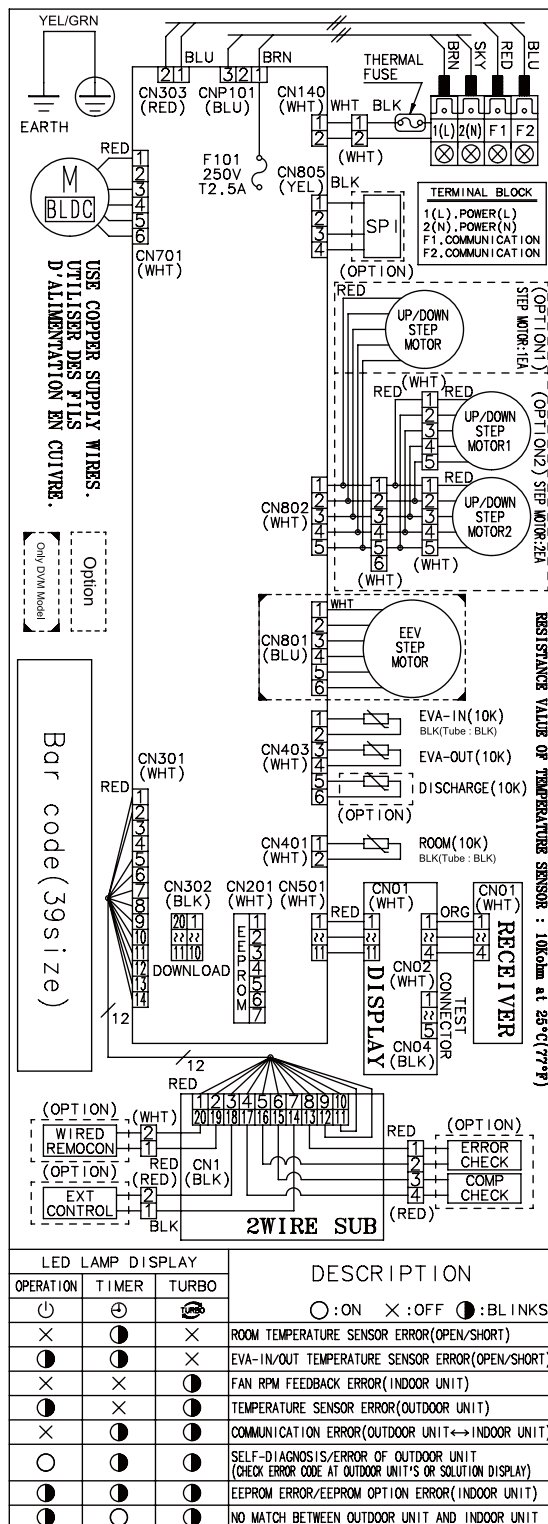


No.	Name	Description		
		5.6kW	7.1kW	8.2kW
1	Refrigerant gas pipe	Ø12.7 Flare	Ø15.88 Flare	
2	Refrigerant liquid pipe	Ø6.35 Flare	Ø9.52 Flare	
3	Drain pipe connection	ID 18 Hose		

4 Electrical Wiring Diagram

AR5000

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

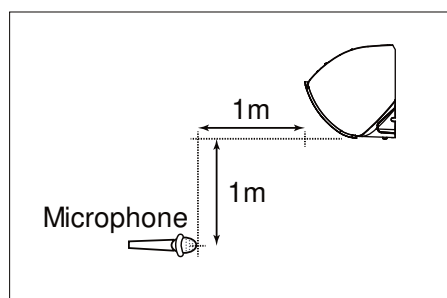


NOTE

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



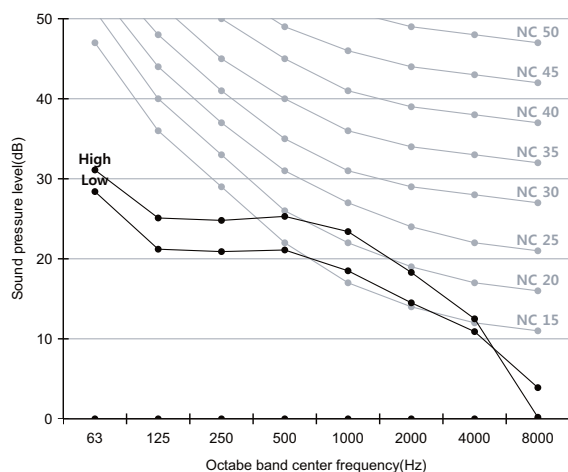
Model	Unit: dB(A)	
	High	Low
AM015JNVDKH/EU	28	24
AM022JNVDKH/EU	33	25
AM028JNVDKH/EU	36	25
AM036JNVDKH/EU	37	30

Note

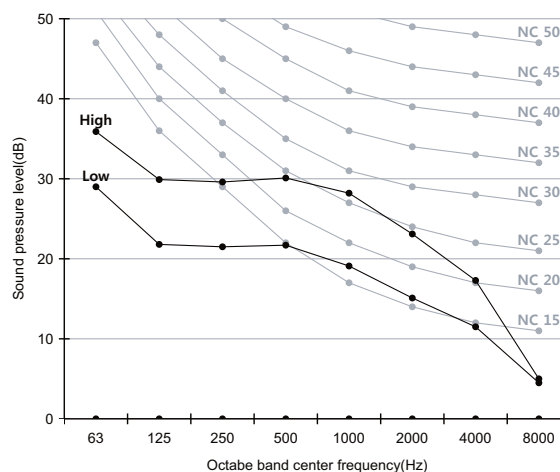
Specifications may be subject to change without prior notice.
 Sound pressure level is obtained in an anechoic room.
 Sound pressure level is a relative value, depending on the distance and acoustic environment.
 Sound pressure level may differ depending on operation condition.
 dBA = A-weighted sound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

NC curve

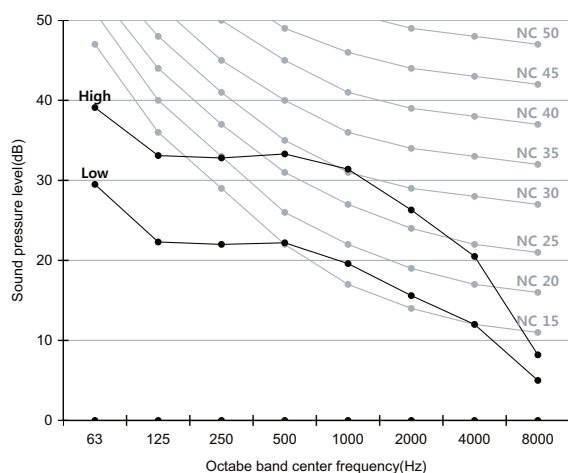
1) AM015JNVDKH/EU



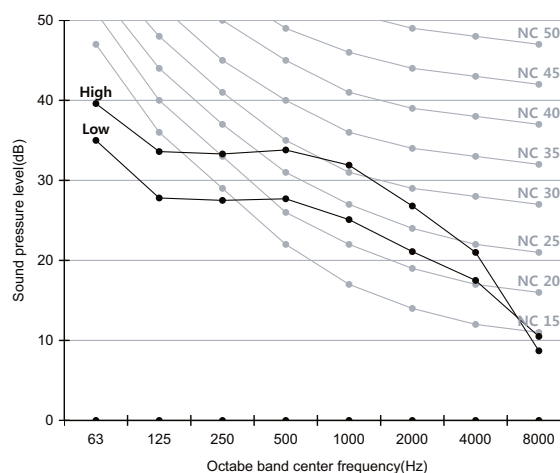
2) AM022JNVDKH/EU



3) AM028JNVDKH/EU

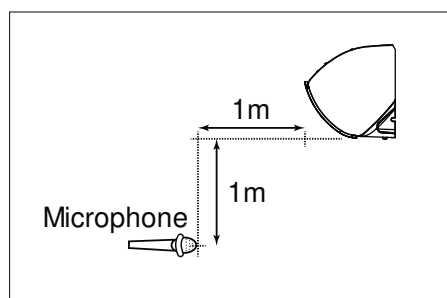


4) AM036JNVDKH/EU



5 Sound pressure level

AR5000



Unit: dB(A)

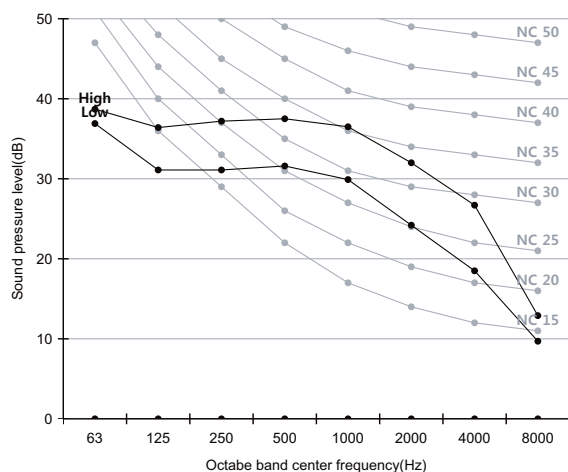
Model	High	Low
AM045JNVDKH/EU	41	34
AM056JNVDKH/EU	39	33
AM071JNVDKH/EU	44	36
AM082JNVDKH/EU	47	40

Note

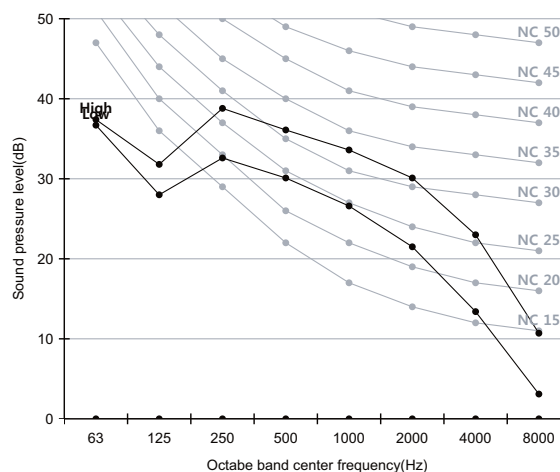
Specifications may be subject to change without prior notice.
 Sound pressure level is obtained in an anechoic room.
 Sound pressure level is a relative value, depending on the distance and acoustic environment.
 Sound pressure level may differ depending on operation condition.
 dBA = A-weighted sound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

NC curve

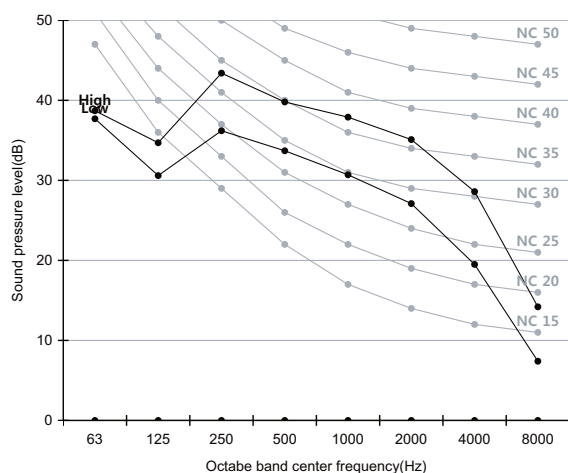
1) AM045JNVDKH/EU



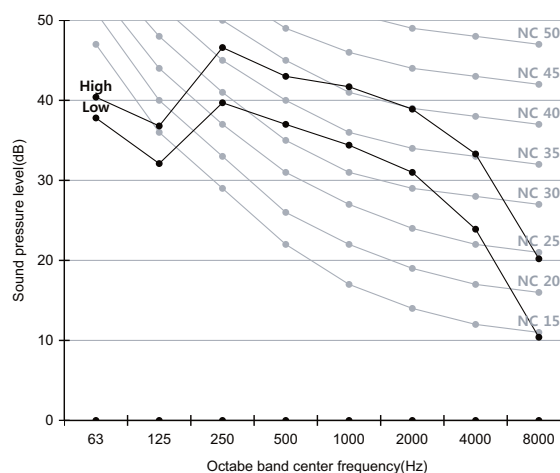
2) AM056JNVDKH/EU



3) AM071JNVDKH/EU

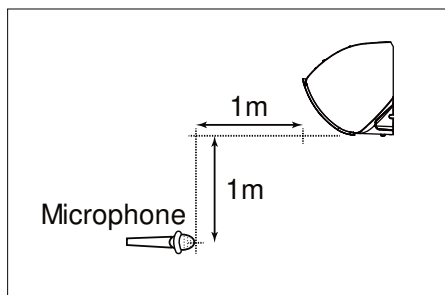


4) AM082JNVDKH/EU



5 Sound pressure level

AR5000



Unit: dB(A)

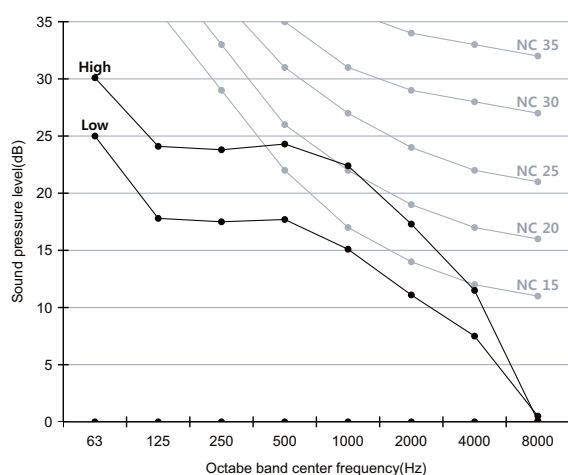
Model	High	Low
AM015JNADKH/EU	26	21
AM022JNADKH/EU	33	23
AM028JNADKH/EU	35	25
AM036JNADKH/EU	36	29

Note

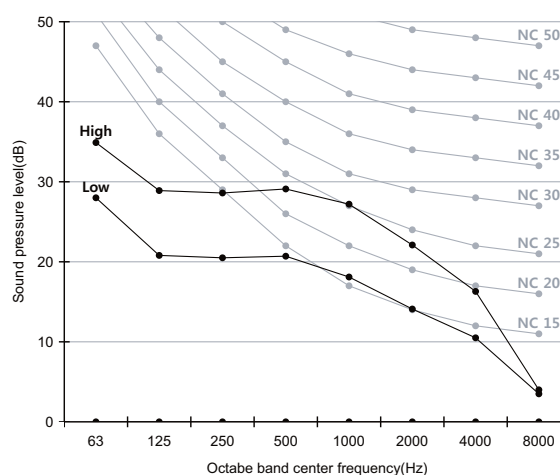
Specifications may be subject to change without prior notice.
 Sound pressure level is obtained in an anechoic room.
 Sound pressure level is a relative value, depending on the distance and acoustic environment.
 Sound pressure level may differ depending on operation condition.
 dBA = A-weighted sound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

NC curve

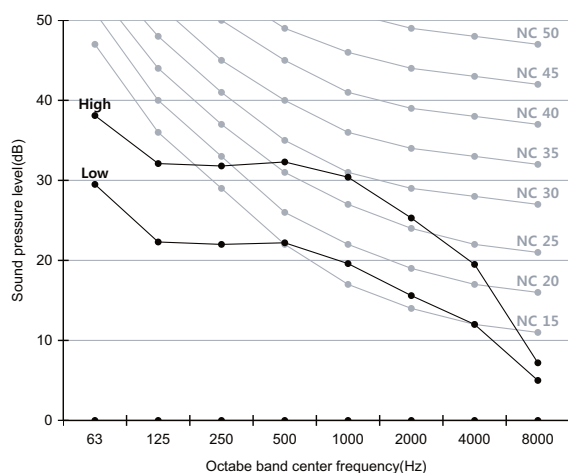
1) AM015JNADKH/EU



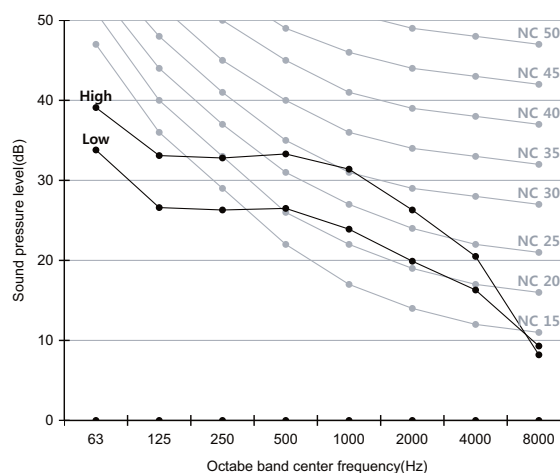
2) AM022JNADKH/EU



3) AM028JNADKH/EU

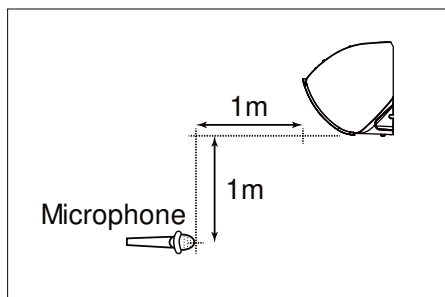


4) AM036JNADKH/EU



5 Sound pressure level

AR5000



Unit: dB(A)

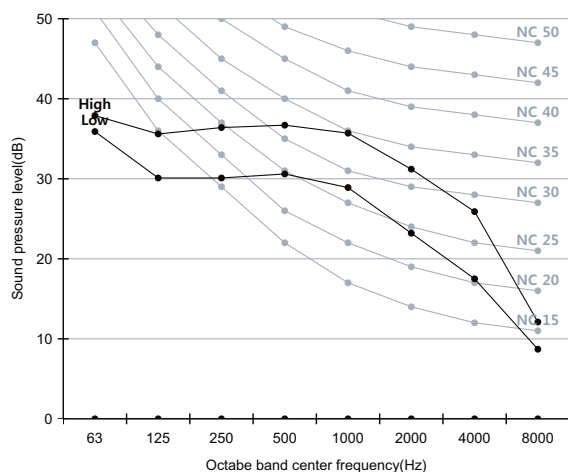
Model	High	Low
AM045JNADKH/EU	40	33
AM056JNADKH/EU	39	32
AM071JNADKH/EU	44	36
AM082JNADKH/EU	47	40

Note

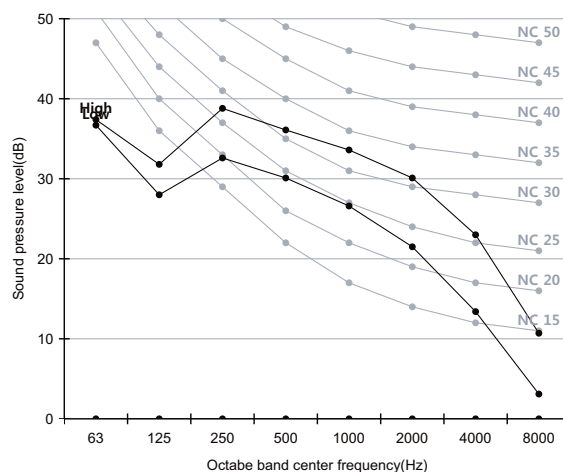
Specifications may be subject to change without prior notice.
 Sound pressure level is obtained in an anechoic room.
 Sound pressure level is a relative value, depending on the distance and acoustic environment.
 Sound pressure level may differ depending on operation condition.
 dBA = A-weighted sound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

NC curve

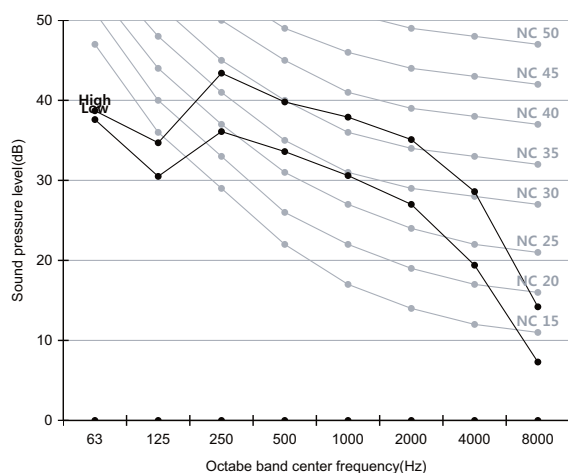
1) AM045JNADKH/EU



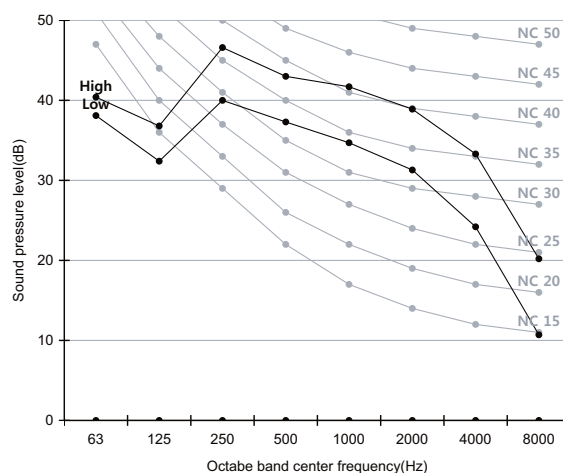
2) AM056JNADKH/EU



3) AM071JNADKH/EU



4) AM082JNADKH/EU



6 Sound power level

AR5000

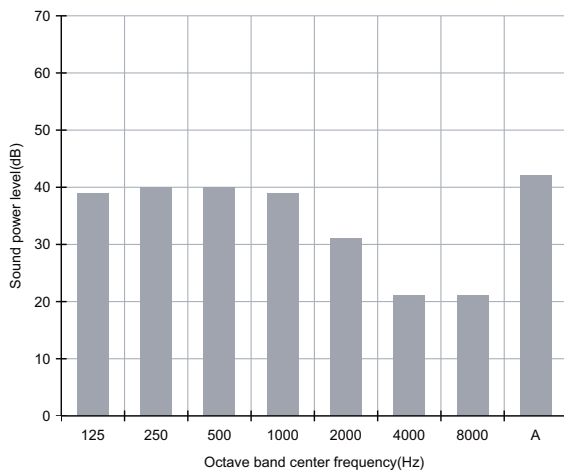
Note

- . 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

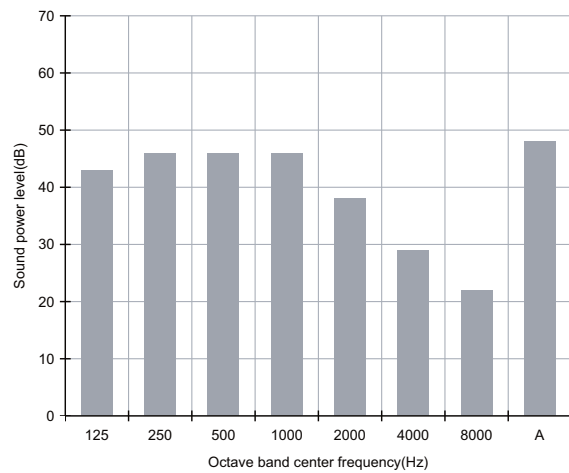
Unit: dB(A)

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

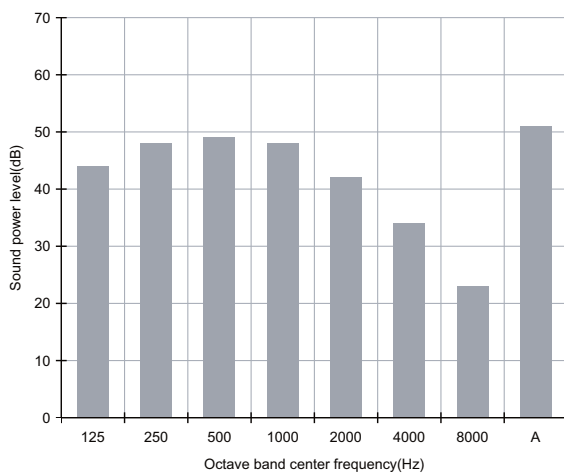
1)AM015JN*DKH/EU



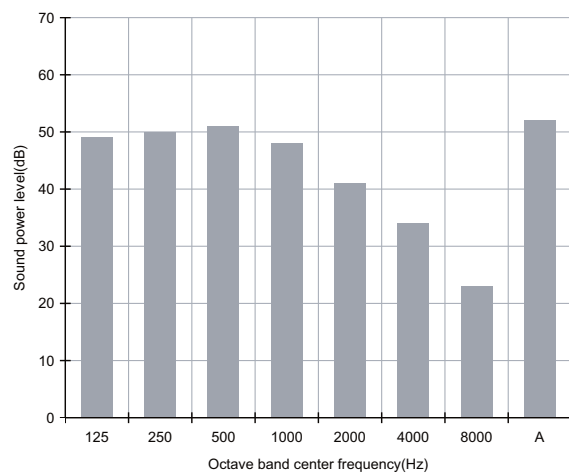
2)AM022JN*DKH/EU



3)AM028JN*DKH/EU



4)AM036JN*DKH/EU



6 Sound power level

AR5000

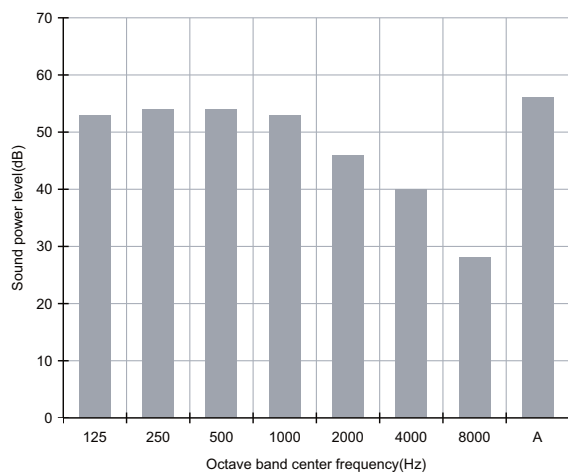
Note

- . 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

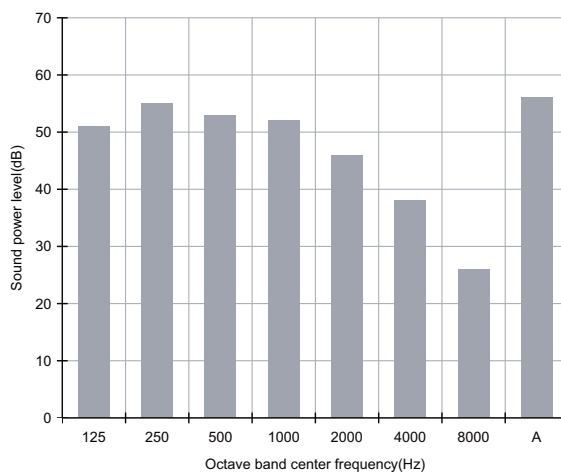
Unit: dB(A)

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

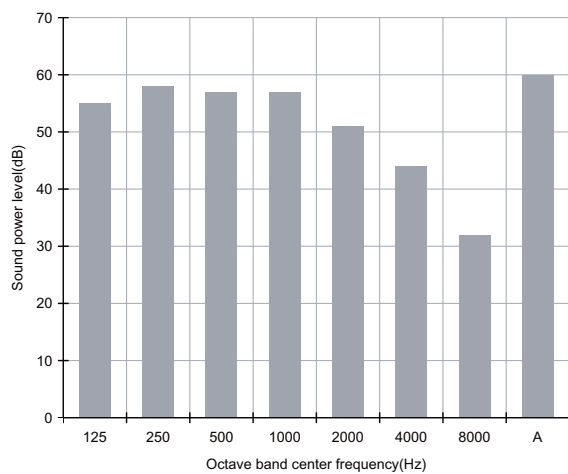
1)AM045JN*DKH/EU



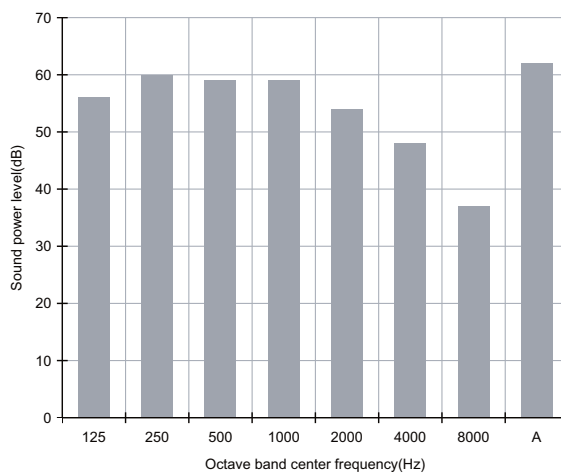
2)AM056JN*DKH/EU



3)AM071JN*DKH/EU



4)AM082JN*DKH/EU



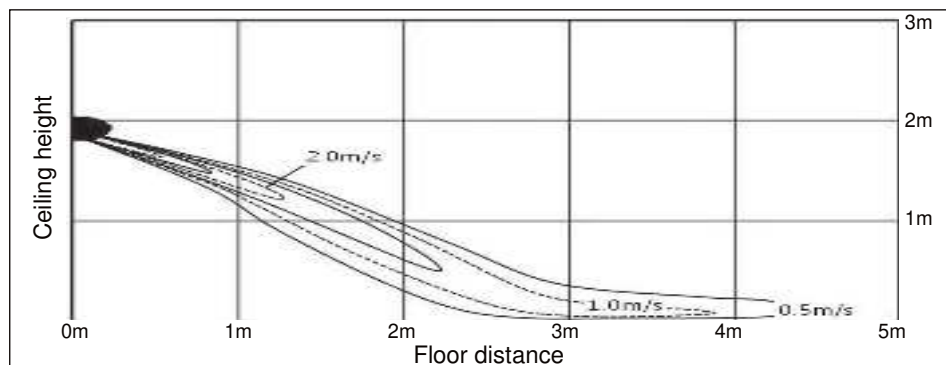
7 Temperature and air flow distribution

AR5000

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

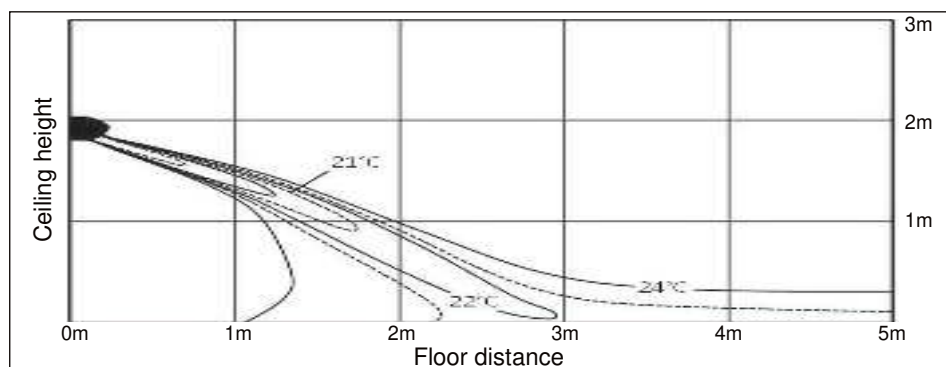
(1) Cooling air velocity distribution

Discharge angle : 25°



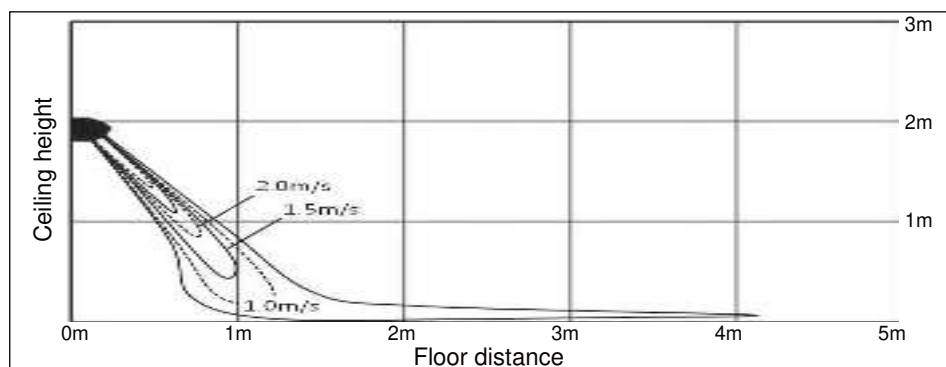
(2) Cooling temperature distribution

Discharge angle : 25°



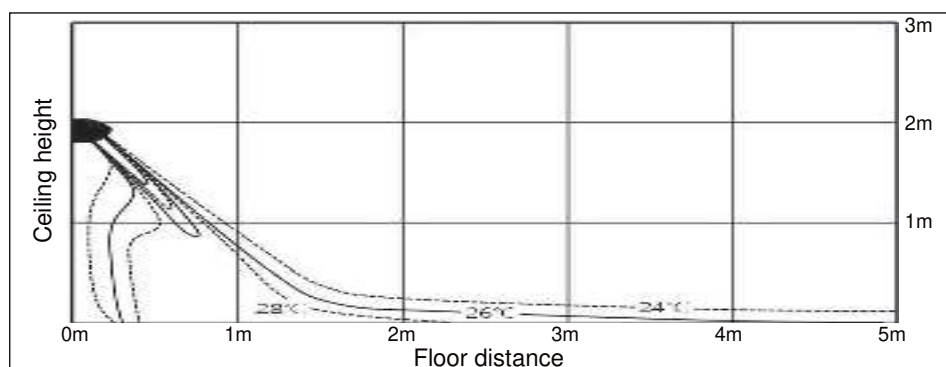
(3) Heating air velocity distribution

Discharge angle : 55°



(4) Heating temperature distribution

Discharge angle : 55°



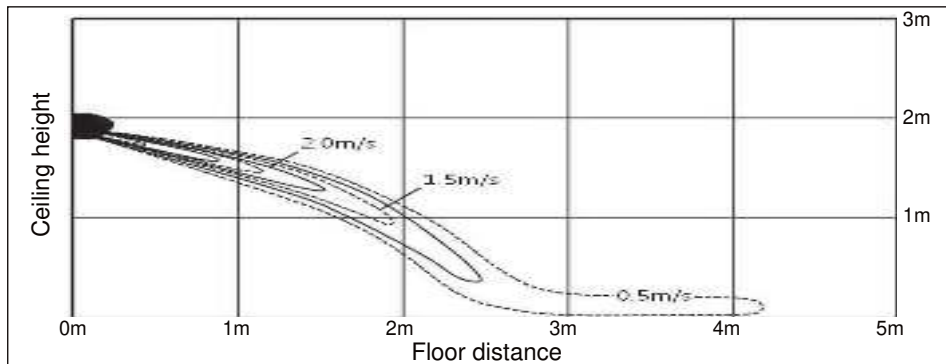
7 Temperature and air flow distribution

AR5000

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

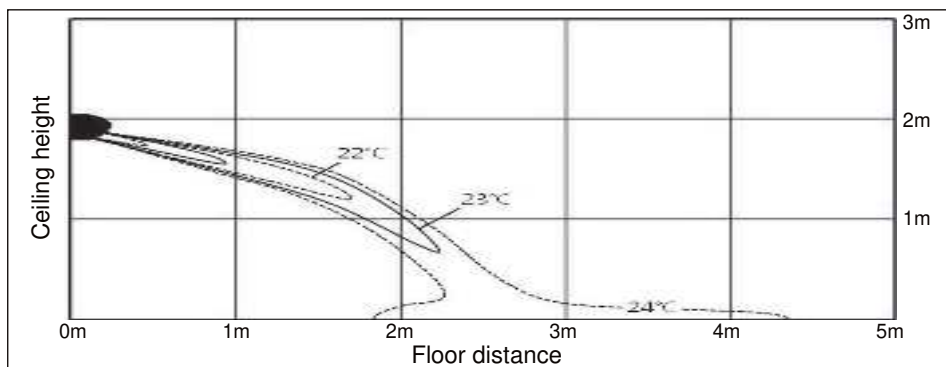
(1) Cooling air velocity distribution

Discharge angle : 18°



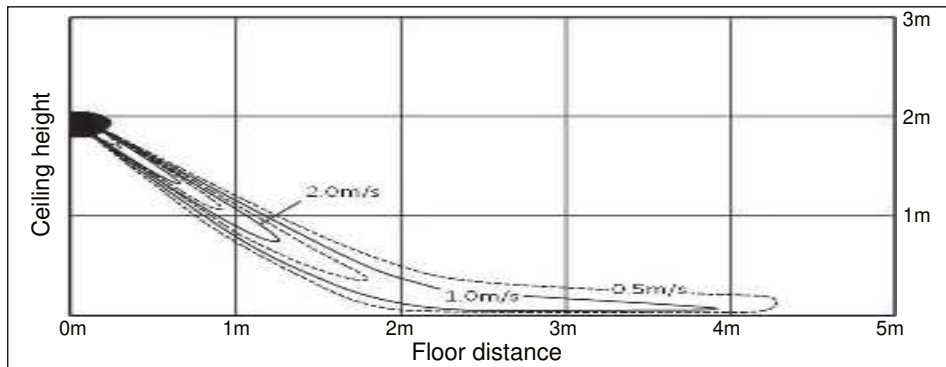
(2) Cooling temperature distribution

Discharge angle : 18°



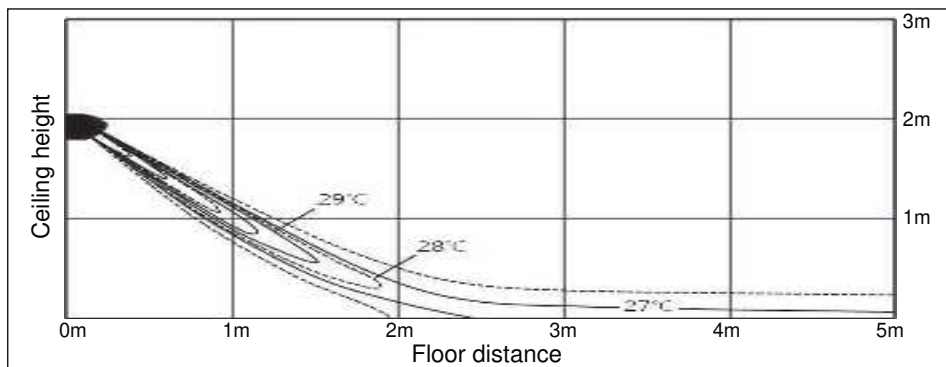
(3) Heating air velocity distribution

Discharge angle : 46°



(4) Heating temperature distribution

Discharge angle : 46°



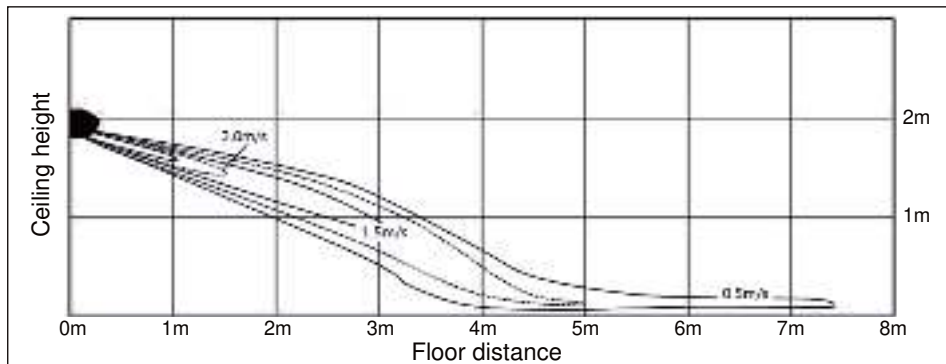
7 Temperature and air flow distribution

AR5000

AM056JNADKH/EU, AM056JNVDKH/EU

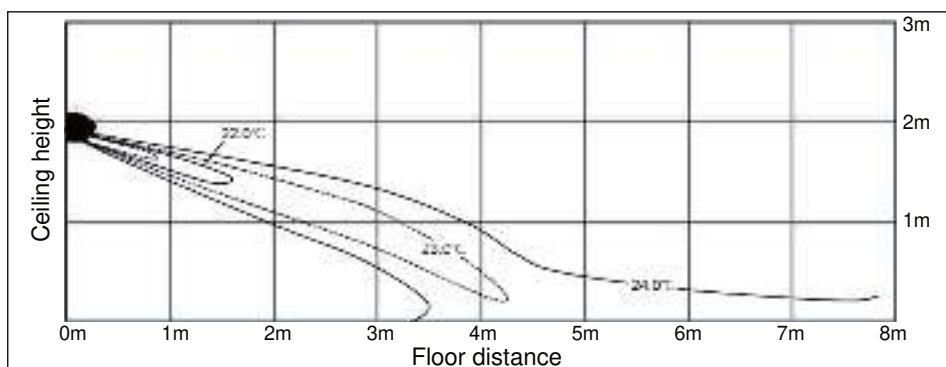
(1) Cooling air velocity distribution

Discharge angle : 18°



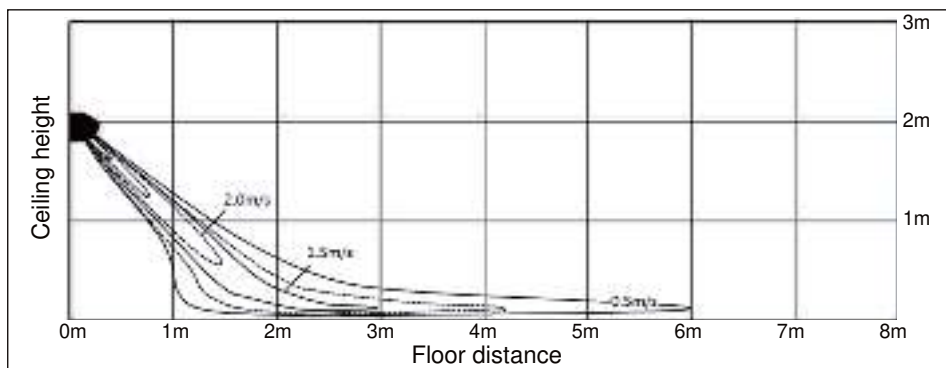
(2) Cooling temperature distribution

Discharge angle : 18°



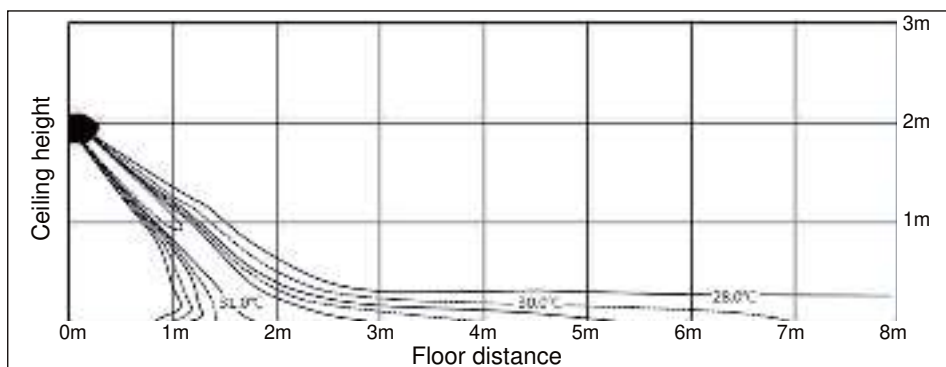
(3) Heating air velocity distribution

Discharge angle : 46°



(4) Heating temperature distribution

Discharge angle : 46°



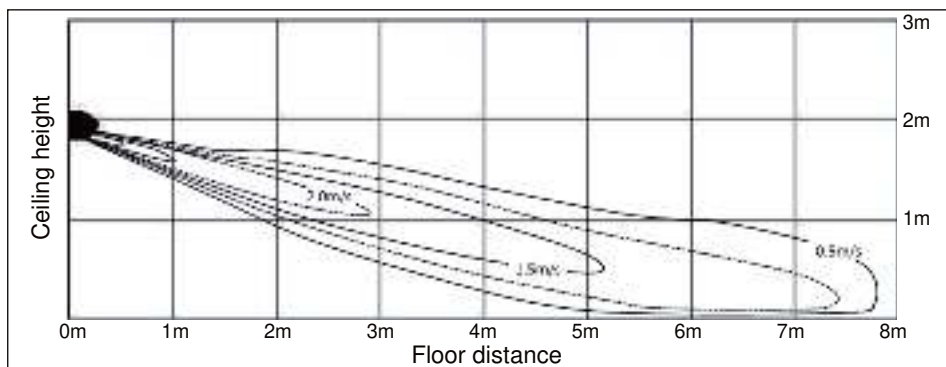
7 Temperature and air flow distribution

AR5000

AM071JNADKH/EU, AM071JNVDKH/EU

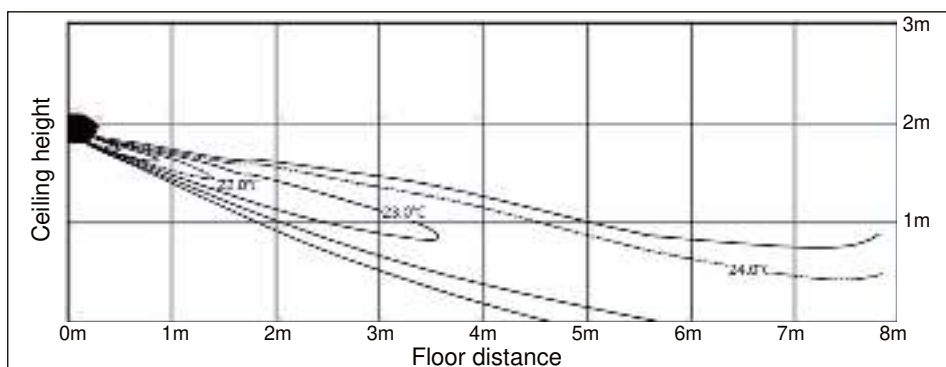
(1) Cooling air velocity distribution

Discharge angle : 18°



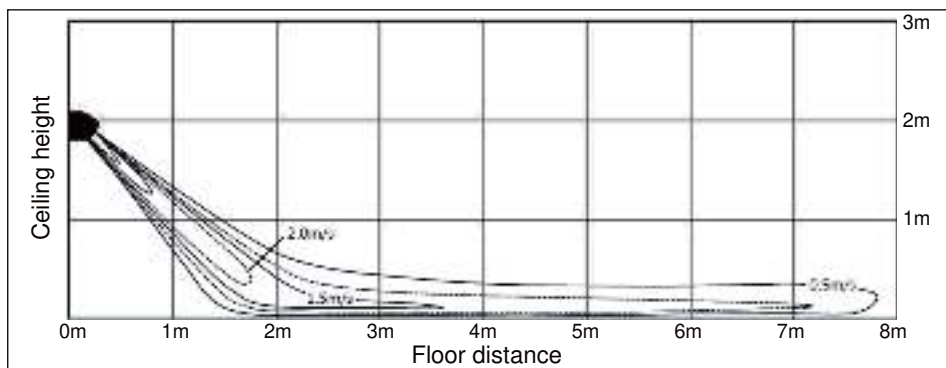
(2) Cooling temperature distribution

Discharge angle : 18°



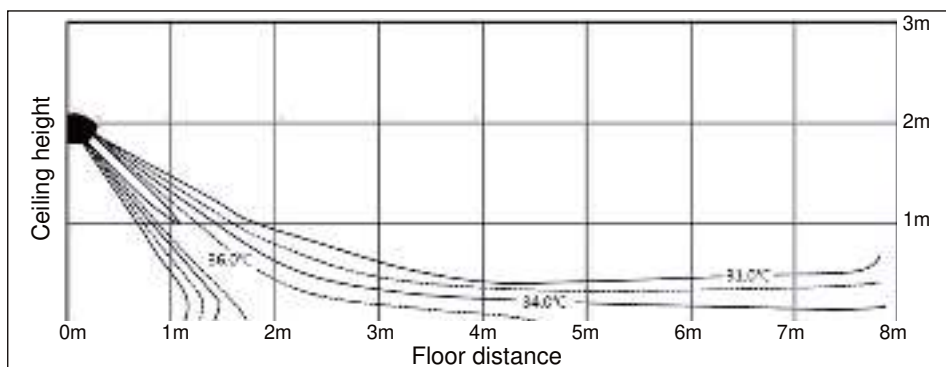
(3) Heating air velocity distribution

Discharge angle : 46°



(4) Heating temperature distribution

Discharge angle : 46°



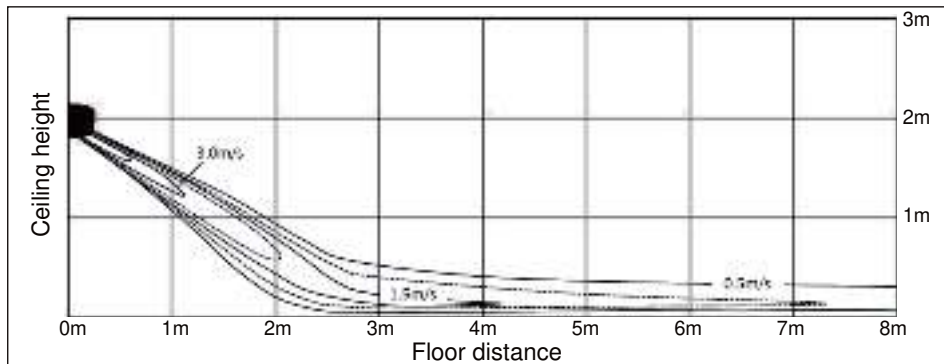
7 Temperature and air flow distribution

AR5000

AM082JNADKH/EU, AM082JNVDKH/EU

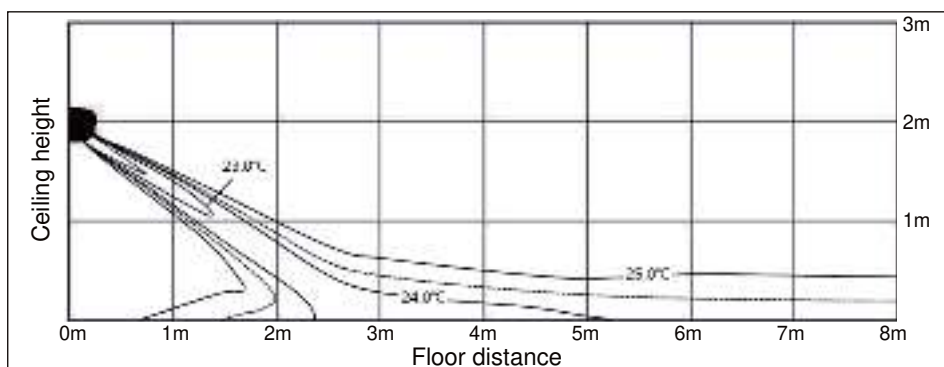
(1) Cooling air velocity distribution

Discharge angle : 32°



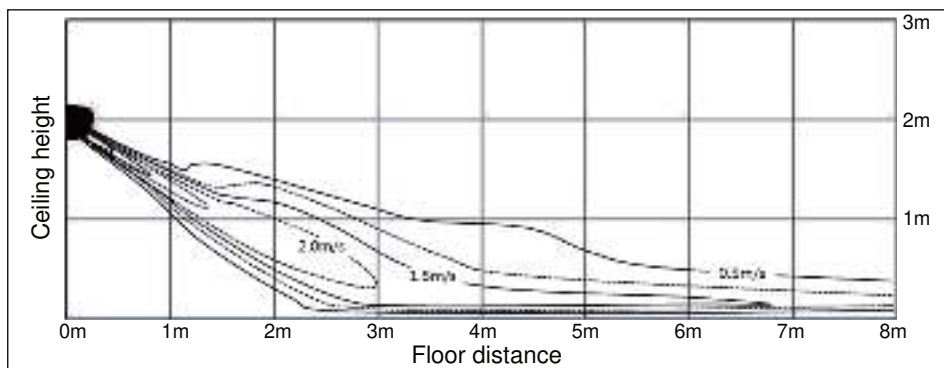
(2) Cooling temperature distribution

Discharge angle : 32°



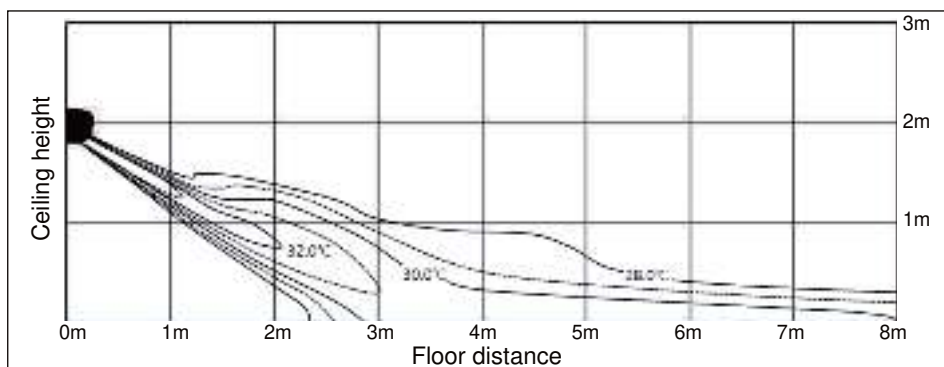
(3) Heating air velocity distribution

Discharge angle : 32°



(4) Heating temperature distribution

Discharge angle : 32°



BORACAY

- 1 *Specifications*
- 2 *Summary Table*
- 3 *Capacity Table*
- 4 *Dimensional Drawing*
- 5 *Center of Gravity*
- 6 *Electrical Wiring Diagram*
- 7 *Sound data*
- 8 *Temperature and Air Flow Distribution*
- 9 *Piping Diagram*

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)	OMM	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)	OMM	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

Cooling

TC: Total Capacity, SHC: Sensible Heat Capacity

Capacity Index	Outdoor Air Temp. (°C,DB)	Indoor temperature													
		20(°C,DB)		23(°C,DB)		26(°C,DB)		27(°C,DB)		28(°C,DB)		30(°C,DB)		32(°C,DB)	
		14(°C,WB)		16(°C,WB)		18(°C,WB)		19(°C,WB)		20(°C,WB)		22(°C,WB)		24(°C,WB)	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
015	10	1.0	0.9	1.2	1.0	1.4	1.0	1.5	1.0	1.6	1.0	1.7	1.1	1.8	1.0
	12	1.0	0.9	1.2	1.0	1.4	1.0	1.5	1.0	1.6	1.0	1.7	1.1	1.8	1.0
	14	1.0	0.9	1.2	1.0	1.4	1.0	1.5	1.0	1.6	1.0	1.7	1.1	1.8	1.0
	16	1.0	0.9	1.2	1.0	1.4	1.0	1.5	1.0	1.6	1.0	1.6	1.1	1.8	1.0
	18	1.0	0.9	1.2	1.0	1.4	1.0	1.5	1.0	1.6	1.0	1.6	1.1	1.8	1.0
	20	1.0	0.9	1.2	1.0	1.4	1.0	1.5	1.0	1.6	1.0	1.6	1.1	1.8	1.0
	21	1.0	0.9	1.2	1.0	1.4	1.0	1.5	1.0	1.6	1.0	1.6	1.1	1.8	1.0
	23	1.0	0.9	1.2	1.0	1.4	1.0	1.5	1.0	1.6	1.0	1.6	1.1	1.8	1.0
	25	1.0	0.9	1.2	1.0	1.4	1.0	1.5	1.0	1.6	1.0	1.6	1.1	1.8	1.0
	27	1.0	0.9	1.2	1.0	1.4	1.0	1.5	1.0	1.6	1.0	1.6	1.1	1.8	1.0
	29	1.0	0.9	1.2	1.0	1.4	1.0	1.5	1.0	1.6	1.0	1.6	1.1	1.8	1.0
	31	1.0	0.9	1.2	1.0	1.4	1.0	1.5	1.0	1.6	1.0	1.6	1.1	1.8	1.0
	33	1.0	0.9	1.2	1.0	1.4	1.0	1.5	1.0	1.6	1.0	1.6	1.1	1.8	1.0
	35	1.0	0.9	1.2	1.0	1.4	1.0	1.5	1.0	1.6	1.0	1.6	1.1	1.8	1.0
	37	1.0	0.9	1.2	1.0	1.4	1.0	1.5	1.0	1.6	1.0	1.6	1.1	1.8	1.0
	39	1.0	0.9	1.2	1.0	1.4	1.0	1.5	1.0	1.6	1.0	1.6	1.1	1.7	0.9
	42	1.0	0.9	1.2	1.0	1.4	1.0	1.5	1.0	1.6	1.0	1.6	1.1	1.7	0.9
022	10	1.5	1.3	1.8	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.5	1.6	2.6	1.4
	12	1.5	1.3	1.8	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.5	1.6	2.6	1.4
	14	1.5	1.3	1.8	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.5	1.6	2.6	1.4
	16	1.5	1.3	1.8	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.6	1.4
	18	1.5	1.3	1.8	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.6	1.4
	20	1.5	1.3	1.8	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.6	1.4
	21	1.5	1.3	1.8	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.6	1.4
	23	1.5	1.3	1.8	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.6	1.4
	25	1.5	1.3	1.8	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.6	1.4
	27	1.5	1.3	1.8	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.6	1.4
	29	1.5	1.3	1.8	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.6	1.4
	31	1.5	1.3	1.8	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.6	1.4
	33	1.5	1.3	1.8	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.6	1.4
	35	1.5	1.3	1.8	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.6	1.4
	37	1.5	1.3	1.8	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.6	1.4
	39	1.5	1.3	1.8	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.5	1.3
	42	1.5	1.3	1.8	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.4	1.3
028	10	1.9	1.6	2.3	1.8	2.6	2.0	2.8	1.9	2.9	1.9	3.1	1.9	3.4	1.9
	12	1.9	1.6	2.3	1.8	2.6	2.0	2.8	1.9	2.9	1.9	3.1	1.9	3.3	1.8
	14	1.9	1.6	2.3	1.8	2.6	2.0	2.8	1.9	2.9	1.9	3.1	1.9	3.3	1.8
	16	1.9	1.6	2.3	1.8	2.6	2.0	2.8	1.9	2.9	1.9	3.1	1.9	3.3	1.8
	18	1.9	1.6	2.3	1.8	2.6	2.0	2.8	1.9	2.9	1.9	3.1	1.9	3.3	1.8
	20	1.9	1.6	2.3	1.8	2.6	2.0	2.8	1.9	2.9	1.9	3.1	1.9	3.3	1.8
	21	1.9	1.6	2.3	1.8	2.6	2.0	2.8	1.9	2.9	1.9	3.1	1.9	3.3	1.8
	23	1.9	1.6	2.3	1.8	2.6	2.0	2.8	1.9	2.9	1.9	3.1	1.9	3.3	1.8
	25	1.9	1.6	2.3	1.8	2.6	2.0	2.8	1.9	2.9	1.9	3.1	1.9	3.3	1.8
	27	1.9	1.6	2.3	1.8	2.6	2.0	2.8	1.9	2.9	1.9	3.1	1.9	3.3	1.8
	29	1.9	1.6	2.3	1.8	2.6	2.0	2.8	1.9	2.9	1.9	3.1	1.9	3.3	1.8
	31	1.9	1.6	2.3	1.8	2.6	2.0	2.8	1.9	2.9	1.9	3.1	1.9	3.3	1.8
	33	1.9	1.6	2.3	1.8	2.6	2.0	2.8	1.9	2.9	1.9	3.1	1.9	3.3	1.8
	35	1.9	1.6	2.3	1.8	2.6	2.0	2.8	1.9	2.9	1.9	3.1	1.9	3.3	1.8
	37	1.9	1.6	2.3	1.8	2.6	2.0	2.8	1.9	2.9	1.9	3.1	1.9	3.3	1.8
	39	1.9	1.6	2.3	1.8	2.6	2.0	2.8	1.9	2.9	1.9	3.0	1.8	3.2	1.7
	42	1.9	1.6	2.3	1.8	2.6	2.0	2.8	1.9	2.9	1.9	2.9	1.8	3.1	1.7
	44	1.9	1.6	2.3	1.8	2.5	1.9	2.7	1.8	2.8	1.8	2.8	1.7	3.0	1.6
	46	1.9	1.6	2.3	1.8	2.5	1.9	2.6	1.8	2.7	1.8	2.7	1.6	2.9	1.6
	48	1.9	1.6	2.2	1.8	2.4	1.9	2.5	1.7	2.6	1.7	2.7	1.6	2.8	1.5

3. Capacity Table

Cooling

TC: Total Capacity, SHC: Sensible Heat Capacity

Capacity Index	Outdoor Air Temp. (°C,DB)	Indoor temperature													
		20(°C,DB)		23(°C,DB)		26(°C,DB)		27(°C,DB)		28(°C,DB)		30(°C,DB)		32(°C,DB)	
		14(°C,WB)		16(°C,WB)		18(°C,WB)		19(°C,WB)		20(°C,WB)		22(°C,WB)		24(°C,WB)	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
036	10	2.5	2.1	2.9	2.2	3.4	2.3	3.6	2.4	3.7	2.4	4.0	2.4	4.3	2.3
	12	2.5	2.1	2.9	2.2	3.4	2.3	3.6	2.4	3.7	2.4	4.0	2.4	4.3	2.3
	14	2.5	2.1	2.9	2.2	3.4	2.3	3.6	2.4	3.7	2.4	4.0	2.4	4.3	2.3
	16	2.5	2.1	2.9	2.2	3.4	2.3	3.6	2.4	3.7	2.4	4.0	2.4	4.3	2.3
	18	2.5	2.1	2.9	2.2	3.4	2.3	3.6	2.4	3.7	2.4	4.0	2.4	4.3	2.3
	20	2.5	2.1	2.9	2.2	3.4	2.3	3.6	2.4	3.7	2.4	4.0	2.4	4.2	2.3
	21	2.5	2.1	2.9	2.2	3.4	2.3	3.6	2.4	3.7	2.4	4.0	2.4	4.2	2.3
	23	2.5	2.1	2.9	2.2	3.4	2.3	3.6	2.4	3.7	2.4	4.0	2.4	4.2	2.3
	25	2.5	2.1	2.9	2.2	3.4	2.3	3.6	2.4	3.7	2.4	4.0	2.4	4.2	2.3
	27	2.5	2.1	2.9	2.2	3.4	2.3	3.6	2.4	3.7	2.4	4.0	2.4	4.2	2.3
	29	2.5	2.1	2.9	2.2	3.4	2.3	3.6	2.4	3.7	2.4	4.0	2.4	4.2	2.3
	31	2.5	2.1	2.9	2.2	3.4	2.3	3.6	2.4	3.7	2.4	4.0	2.4	4.2	2.3
	33	2.5	2.1	2.9	2.2	3.4	2.3	3.6	2.4	3.7	2.4	4.0	2.4	4.2	2.3
	35	2.5	2.1	2.9	2.2	3.4	2.3	3.6	2.4	3.7	2.4	4.0	2.4	4.2	2.3
	37	2.5	2.1	2.9	2.2	3.4	2.3	3.6	2.4	3.7	2.4	3.9	2.3	4.2	2.3
	39	2.5	2.1	2.9	2.2	3.4	2.3	3.6	2.4	3.7	2.4	3.9	2.3	4.1	2.2
045	42	2.5	2.1	2.9	2.2	3.4	2.3	3.6	2.4	3.7	2.4	3.8	2.3	4.0	2.1
	44	2.5	2.1	2.9	2.2	3.3	2.2	3.4	2.3	3.6	2.3	3.7	2.2	3.9	2.1
	46	2.5	2.1	2.9	2.2	3.2	2.2	3.3	2.2	3.4	2.2	3.6	2.1	3.8	2.0
	48	2.5	2.1	2.8	2.2	3.2	2.1	3.2	2.2	3.4	2.2	3.5	2.0	3.6	1.9
	10	3.1	2.4	3.7	2.7	4.3	2.9	4.5	3.0	4.7	3.0	5.1	3.1	5.4	2.8
	12	3.1	2.4	3.7	2.7	4.3	2.9	4.5	3.0	4.7	3.0	5.1	3.1	5.4	2.8
	14	3.1	2.4	3.7	2.7	4.3	2.9	4.5	3.0	4.7	3.0	5.0	3.0	5.4	2.8
	16	3.1	2.4	3.7	2.7	4.3	2.9	4.5	3.0	4.7	3.0	5.0	3.0	5.3	2.8
	18	3.1	2.4	3.7	2.7	4.3	2.9	4.5	3.0	4.7	3.0	5.0	3.0	5.3	2.8
	20	3.1	2.4	3.7	2.7	4.3	2.9	4.5	3.0	4.7	3.0	5.0	3.0	5.3	2.8
	21	3.1	2.4	3.7	2.7	4.3	2.9	4.5	3.0	4.7	3.0	5.0	3.0	5.3	2.8
	23	3.1	2.4	3.7	2.7	4.3	2.9	4.5	3.0	4.7	3.0	5.0	3.0	5.3	2.8
	25	3.1	2.4	3.7	2.7	4.3	2.9	4.5	3.0	4.7	3.0	5.0	3.0	5.3	2.8
	27	3.1	2.4	3.7	2.7	4.3	2.9	4.5	3.0	4.7	3.0	5.0	3.0	5.3	2.8
	29	3.1	2.4	3.7	2.7	4.3	2.9	4.5	3.0	4.7	3.0	5.0	3.0	5.3	2.8
	31	3.1	2.4	3.7	2.7	4.3	2.9	4.5	3.0	4.7	3.0	5.0	3.0	5.3	2.8
	33	3.1	2.4	3.7	2.7	4.3	2.9	4.5	3.0	4.7	3.0	5.0	3.0	5.3	2.8
	35	3.1	2.4	3.7	2.7	4.3	2.9	4.5	3.0	4.7	3.0	5.0	3.0	5.3	2.8
	37	3.1	2.4	3.7	2.7	4.3	2.9	4.5	3.0	4.7	3.0	4.9	2.9	5.2	2.7
	39	3.1	2.4	3.7	2.7	4.3	2.9	4.5	3.0	4.7	3.0	4.9	2.9	5.1	2.6
056	42	3.1	2.4	3.7	2.7	4.2	2.9	4.4	3.0	4.6	3.0	4.8	2.9	5.0	2.5
	44	3.1	2.4	3.7	2.7	4.1	2.8	4.3	2.9	4.5	2.9	4.6	2.8	4.8	2.5
	46	3.1	2.4	3.7	2.7	4.0	2.8	4.2	2.8	4.3	2.8	4.5	2.7	4.7	2.4
	48	3.1	2.3	3.6	2.6	4.0	2.7	4.0	2.7	4.3	2.7	4.3	2.6	4.5	2.3
	10	3.9	3.0	4.6	3.4	5.3	3.7	5.6	3.8	5.8	3.8	6.3	3.9	6.7	3.6
	12	3.9	3.0	4.6	3.4	5.3	3.7	5.6	3.8	5.8	3.8	6.3	3.9	6.7	3.6
	14	3.9	3.0	4.6	3.4	5.3	3.7	5.6	3.8	5.8	3.8	6.2	3.8	6.7	3.6
	16	3.9	3.0	4.6	3.4	5.3	3.7	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.5
	18	3.9	3.0	4.6	3.4	5.3	3.7	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.5
	20	3.9	3.0	4.6	3.4	5.3	3.7	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.5
	21	3.9	3.0	4.6	3.4	5.3	3.7	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.5
	23	3.9	3.0	4.6	3.4	5.3	3.7	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.5
	25	3.9	3.0	4.6	3.4	5.3	3.7	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.5
	27	3.9	3.0	4.6	3.4	5.3	3.7	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.5
	29	3.9	3.0	4.6	3.4	5.3	3.7	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.5
	31	3.9	3.0	4.6	3.4	5.3	3.7	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.5
	33	3.9	3.0	4.6	3.4	5.3	3.7	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.5
	35	3.9	3.0	4.6	3.4	5.3	3.7	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.5
	37	3.9	3.0	4.6	3.4	5.3	3.7	5.6	3.8	5.8	3.8	6.1	3.7	6.5	3.4
	39	3.9	3.0	4.6	3.4	5.3	3.7	5.6	3.8	5.8	3.8	6.1	3.7	6.4	3.3
	42	3.9	3.0	4.6	3.4	5.3	3.7	5.5	3.7	5.7	3.8	6.0	3.6	6.2	3.2
	44	3.9	3.0	4.6	3.4	5.1	3.6	5.3	3.6	5.6	3.6	5.8	3.5	6.0	3.1
	46	3.9	3.0	4.6	3.4	5.0	3.5	5.2	3.5	5.4	3.5	5.6	3.4	5.9	3.0
	48	3.9	3.0	4.5	3.3	5.0	3.5	5.0	3.4	5.3	3.5	5.4	3.3	5.7	2.9

3. Capacity Table

Cooling

TC: Total Capacity, SHC: Sensible Heat Capacity

Capacity Index	Outdoor Air Temp. (°C,DB)	Indoor temperature													
		20(°C,DB)		23(°C,DB)		26(°C,DB)		27(°C,DB)		28(°C,DB)		30(°C,DB)		32(°C,DB)	
		14(°C,WB)		16(°C,WB)		18(°C,WB)		19(°C,WB)		20(°C,WB)		22(°C,WB)		24(°C,WB)	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
071	10	4.9	3.9	5.7	4.3	6.7	4.7	7.1	4.8	7.4	4.8	7.9	4.8	8.6	4.6
	12	4.9	3.9	5.7	4.3	6.7	4.7	7.1	4.8	7.4	4.8	7.9	4.8	8.5	4.5
	14	4.9	3.9	5.7	4.3	6.7	4.7	7.1	4.8	7.4	4.8	7.9	4.8	8.5	4.5
	16	4.9	3.9	5.7	4.3	6.7	4.7	7.1	4.8	7.4	4.8	7.9	4.8	8.5	4.5
	18	4.9	3.9	5.7	4.3	6.7	4.7	7.1	4.8	7.3	4.8	7.8	4.7	8.4	4.4
	20	4.9	3.9	5.7	4.3	6.7	4.7	7.1	4.8	7.3	4.8	7.8	4.7	8.4	4.4
	21	4.9	3.9	5.7	4.3	6.7	4.7	7.1	4.8	7.3	4.8	7.8	4.7	8.4	4.4
	23	4.9	3.9	5.7	4.3	6.7	4.7	7.1	4.8	7.3	4.8	7.8	4.7	8.4	4.4
	25	4.9	3.9	5.7	4.3	6.7	4.7	7.1	4.8	7.3	4.8	7.8	4.7	8.4	4.4
	27	4.9	3.9	5.7	4.3	6.7	4.7	7.1	4.8	7.3	4.8	7.8	4.7	8.4	4.4
	29	4.9	3.9	5.7	4.3	6.7	4.7	7.1	4.8	7.3	4.8	7.8	4.7	8.4	4.4
	31	4.9	3.9	5.7	4.3	6.7	4.7	7.1	4.8	7.3	4.8	7.8	4.7	8.4	4.4
	33	4.9	3.9	5.7	4.3	6.7	4.7	7.1	4.8	7.3	4.8	7.8	4.7	8.4	4.4
	35	4.9	3.9	5.7	4.3	6.7	4.7	7.1	4.8	7.3	4.8	7.8	4.7	8.4	4.4
	37	4.9	3.9	5.7	4.3	6.7	4.7	7.1	4.8	7.3	4.8	7.8	4.7	8.2	4.3
	39	4.9	3.9	5.7	4.3	6.7	4.7	7.1	4.8	7.3	4.8	7.7	4.6	8.0	4.2
	42	4.9	3.9	5.7	4.3	6.6	4.7	7.0	4.7	7.2	4.7	7.6	4.5	7.8	4.1
	44	4.9	3.9	5.7	4.3	6.5	4.5	6.8	4.6	7.0	4.6	7.3	4.3	7.6	3.9
	46	4.9	3.9	5.7	4.2	6.3	4.5	6.6	4.4	6.8	4.5	7.1	4.2	7.4	3.8
	48	4.8	3.8	5.6	4.2	6.2	4.4	6.4	4.3	6.7	4.4	6.9	4.1	7.1	3.7

3. Capacity Table

Heating

TC: Total Capacity

Capacity Index	Outdoor Air Temp. (°C)		Indoor temperature (°C,DB)				
			16(°C,DB)	18(°C,DB)	20(°C,DB)	22(°C,DB)	24(°C,DB)
			TC	TC	TC	TC	TC
	DB	WB	kW	kW	kW	kW	kW
015	-19.8	-20.0	1.0	1.0	1.0	1.0	1.0
	-18.8	-19.0	1.0	1.0	1.0	1.0	1.0
	-16.7	-17.0	1.1	1.1	1.1	1.1	1.1
	-14.7	-15.0	1.2	1.1	1.1	1.1	1.1
	-12.6	-13.0	1.2	1.2	1.2	1.2	1.2
	-10.5	-11.0	1.4	1.4	1.3	1.3	1.3
	-9.5	-10.0	1.4	1.4	1.3	1.3	1.3
	-8.5	-9.1	1.5	1.5	1.4	1.4	1.4
	-7.0	-7.6	1.6	1.5	1.5	1.4	1.4
	-5.0	-5.6	1.6	1.6	1.6	1.5	1.5
	-3.0	-3.7	1.7	1.7	1.6	1.6	1.5
	0.0	-0.7	1.8	1.7	1.7	1.6	1.5
	3.0	2.2	1.8	1.8	1.7	1.6	1.5
	5.0	4.1	1.9	1.8	1.7	1.6	1.5
	7.0	6.0	1.9	1.8	1.7	1.6	1.5
	9.0	7.9	2.0	1.8	1.7	1.6	1.5
022	-19.8	-20.0	1.5	1.5	1.5	1.5	1.5
	-18.8	-19.0	1.5	1.5	1.5	1.5	1.5
	-16.7	-17.0	1.6	1.6	1.6	1.6	1.6
	-14.7	-15.0	1.7	1.6	1.6	1.6	1.6
	-12.6	-13.0	1.8	1.8	1.8	1.8	1.7
	-10.5	-11.0	2.0	2.0	1.9	1.9	1.9
	-9.5	-10.0	2.1	2.0	2.0	1.9	1.9
	-8.5	-9.1	2.2	2.1	2.1	2.0	2.0
	-7.0	-7.6	2.3	2.2	2.2	2.0	2.0
	-5.0	-5.6	2.4	2.3	2.3	2.2	2.2
	-3.0	-3.7	2.5	2.5	2.4	2.3	2.2
	0.0	-0.7	2.6	2.5	2.5	2.3	2.2
	3.0	2.2	2.7	2.6	2.5	2.3	2.2
	5.0	4.1	2.8	2.7	2.5	2.3	2.2
	7.0	6.0	2.8	2.7	2.5	2.3	2.2
	9.0	7.9	3.0	2.7	2.5	2.3	2.2
028	-19.8	-20.0	1.9	1.9	1.9	1.9	1.9
	-18.8	-19.0	1.9	1.9	1.9	1.9	1.9
	-16.7	-17.0	2.0	2.0	2.0	2.0	1.9
	-14.7	-15.0	2.1	2.1	2.0	2.0	1.9
	-12.6	-13.0	2.2	2.2	2.2	2.1	2.1
	-10.5	-11.0	2.3	2.3	2.3	2.3	2.2
	-9.5	-10.0	2.3	2.3	2.3	2.3	2.2
	-8.5	-9.1	2.4	2.4	2.4	2.4	2.3
	-7.0	-7.6	2.5	2.4	2.4	2.4	2.3
	-5.0	-5.6	2.6	2.6	2.5	2.5	2.4
	-3.0	-3.7	2.8	2.7	2.7	2.6	2.5
	0.0	-0.7	2.9	2.8	2.8	2.7	2.6
	3.0	2.2	3.0	3.0	2.9	2.8	2.7
	5.0	4.1	3.2	3.1	3.1	2.9	2.7
	7.0	6.0	3.3	3.2	3.2	3.0	2.7
	9.0	7.9	3.4	3.3	3.2	3.0	2.7
	11.0	9.8	3.5	3.3	3.2	3.0	2.7
	13.0	11.8	3.6	3.4	3.2	3.0	2.7
	15.0	13.7	3.7	3.4	3.2	3.0	2.7

3. Capacity Table

Heating

TC: Total Capacity

Capacity Index	Outdoor Air Temp. (°C)		Indoor temperature (°C,DB)				
			16(°C,DB)	18(°C,DB)	20(°C,DB)	22(°C,DB)	24(°C,DB)
	DB	WB	TC kW	TC kW	TC kW	TC kW	TC kW
036	-19.8	-20.0	2.4	2.4	2.3	2.3	2.3
	-18.8	-19.0	2.5	2.4	2.3	2.3	2.3
	-16.7	-17.0	2.6	2.5	2.4	2.4	2.3
	-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
045	-19.8	-20.0	3.1	3.0	3.0	2.9	2.9
	-18.8	-19.0	3.1	3.1	3.1	3.0	3.0
	-16.7	-17.0	3.2	3.2	3.1	3.0	3.0
	-14.7	-15.0	3.3	3.3	3.2	3.1	3.0
	-12.6	-13.0	3.5	3.4	3.3	3.3	3.2
	-10.5	-11.0	3.6	3.6	3.5	3.5	3.4
	-9.5	-10.0	3.7	3.7	3.6	3.5	3.5
	-8.5	-9.1	3.8	3.7	3.7	3.6	3.5
	-7.0	-7.6	3.9	3.8	3.8	3.7	3.6
	-5.0	-5.6	4.1	4.1	4.0	3.9	3.7
	-3.0	-3.7	4.3	4.2	4.2	4.1	3.9
	0.0	-0.7	4.5	4.4	4.4	4.2	4.0
	3.0	2.2	4.7	4.7	4.6	4.4	4.2
	5.0	4.1	4.9	4.8	4.8	4.5	4.2
	7.0	6.0	5.2	5.1	5.0	4.6	4.2
	9.0	7.9	5.3	5.2	5.0	4.6	4.2
056	-19.8	-20.0	3.9	3.8	3.8	3.7	3.7
	-18.8	-19.0	3.9	3.9	3.8	3.7	3.7
	-16.7	-17.0	4.0	4.0	3.9	3.8	3.8
	-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

3. Capacity Table

Heating

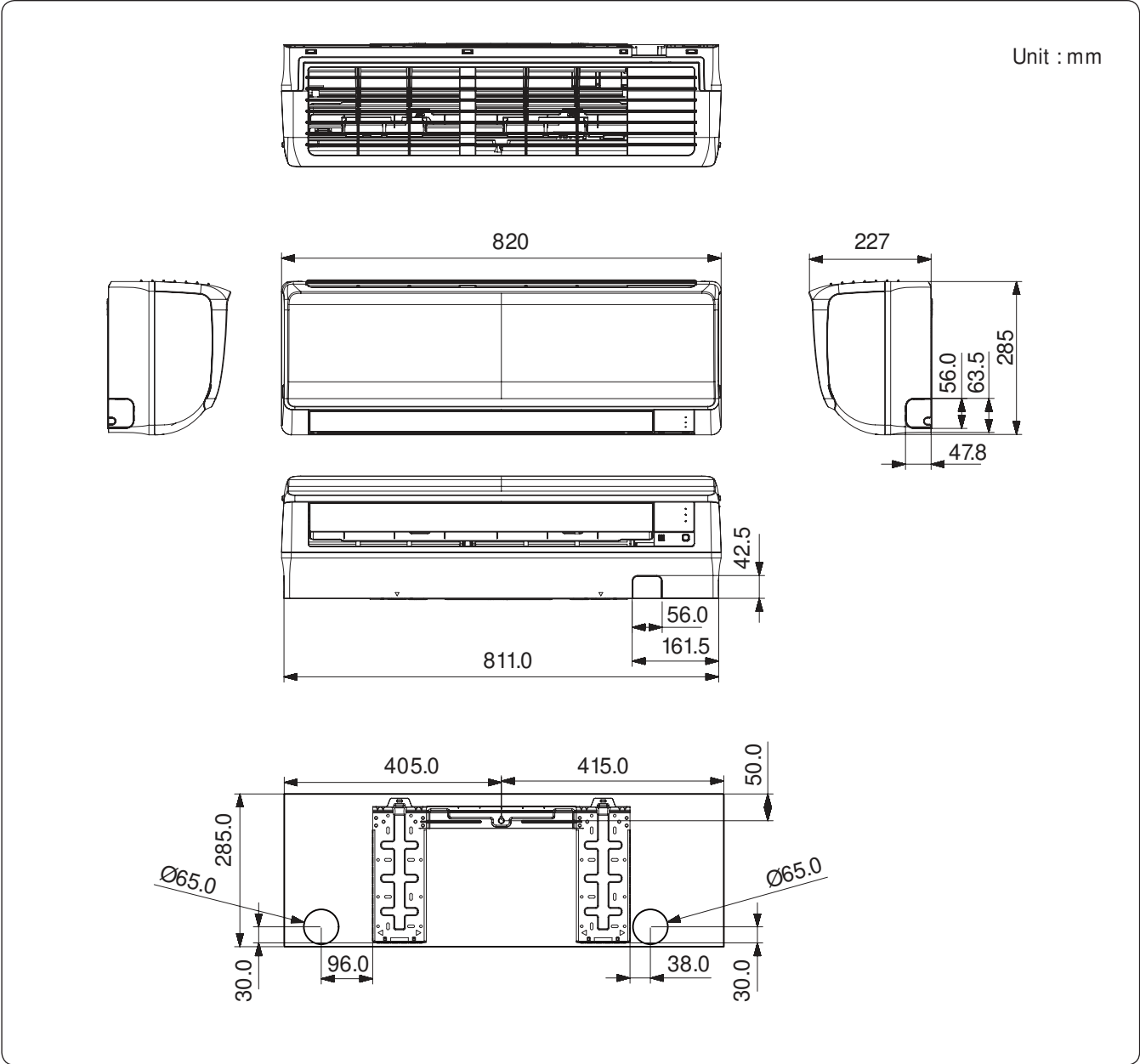
TC: Total Capacity

Capacity Index	Outdoor Air Temp. (°C)		Indoor temperature (°C,DB)				
			16(°C,DB)	18(°C,DB)	20(°C,DB)	22(°C,DB)	24(°C,DB)
			TC	TC	TC	TC	TC
	DB	WB	kW	kW	kW	kW	kW
071	-19.8	-20.0	5.0	4.9	4.8	4.8	4.8
	-18.8	-19.0	5.1	5.0	4.8	4.8	4.8
	-16.7	-17.0	5.2	5.1	4.9	4.9	4.8
	-14.7	-15.0	5.4	5.3	5.1	4.9	4.8
	-12.6	-13.0	5.6	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	5.9	5.9	5.8	5.7	5.6
	-8.5	-9.1	6.0	6.0	5.9	5.8	5.7
	-7.0	-7.6	6.2	6.2	6.1	5.9	5.8
	-5.0	-5.6	6.5	6.4	6.4	6.2	5.9
	-3.0	-3.7	6.9	6.7	6.7	6.4	6.2
	0.0	-0.7	7.2	7.1	7.0	6.7	6.4
	3.0	2.2	7.5	7.4	7.3	7.1	6.7
	5.0	4.1	7.9	7.8	7.7	7.2	6.7
	7.0	6.0	8.2	8.1	8.0	7.4	6.7
	9.0	7.9	8.5	8.2	8.0	7.4	6.7
	11.0	9.8	8.7	8.3	8.0	7.4	6.7
	13.0	11.8	9.0	8.5	8.0	7.4	6.7
	15.0	13.7	9.3	8.6	8.0	7.4	6.7

4. Dimensional Drawing

BORACAY

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



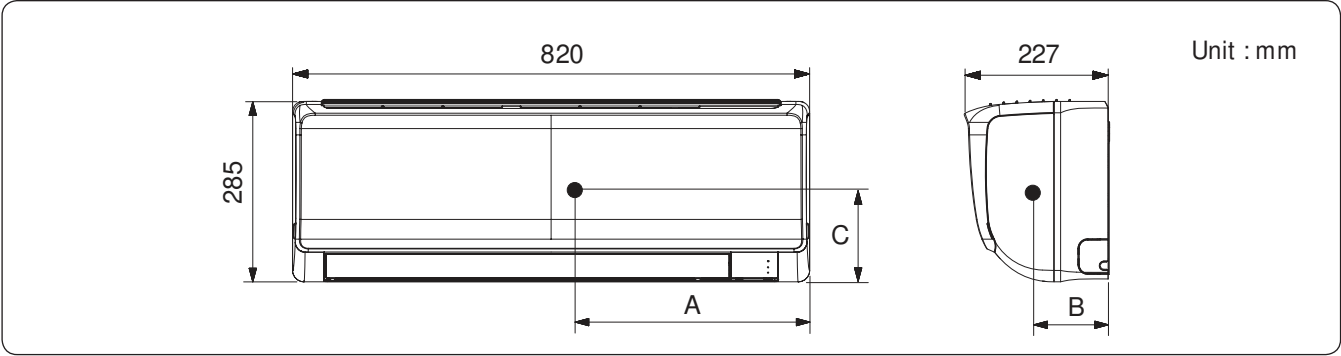
No.	Name	Description
1	Liquid pipe connection	Ø6.35 (Ø1/4)
2	Gas pipe connection	Ø12.7 (Ø1/2)
3	Drain pipe connection	ID 18 HOSE
4	Power & Communication wiring conduit	

Unit : mm

5. Center of Gravity

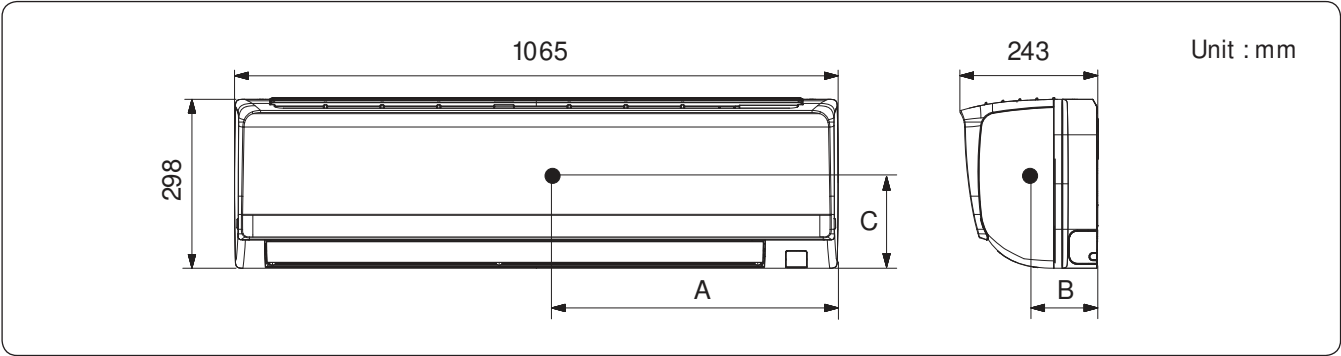
BORACAY

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



A	B	C
375	105	155

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

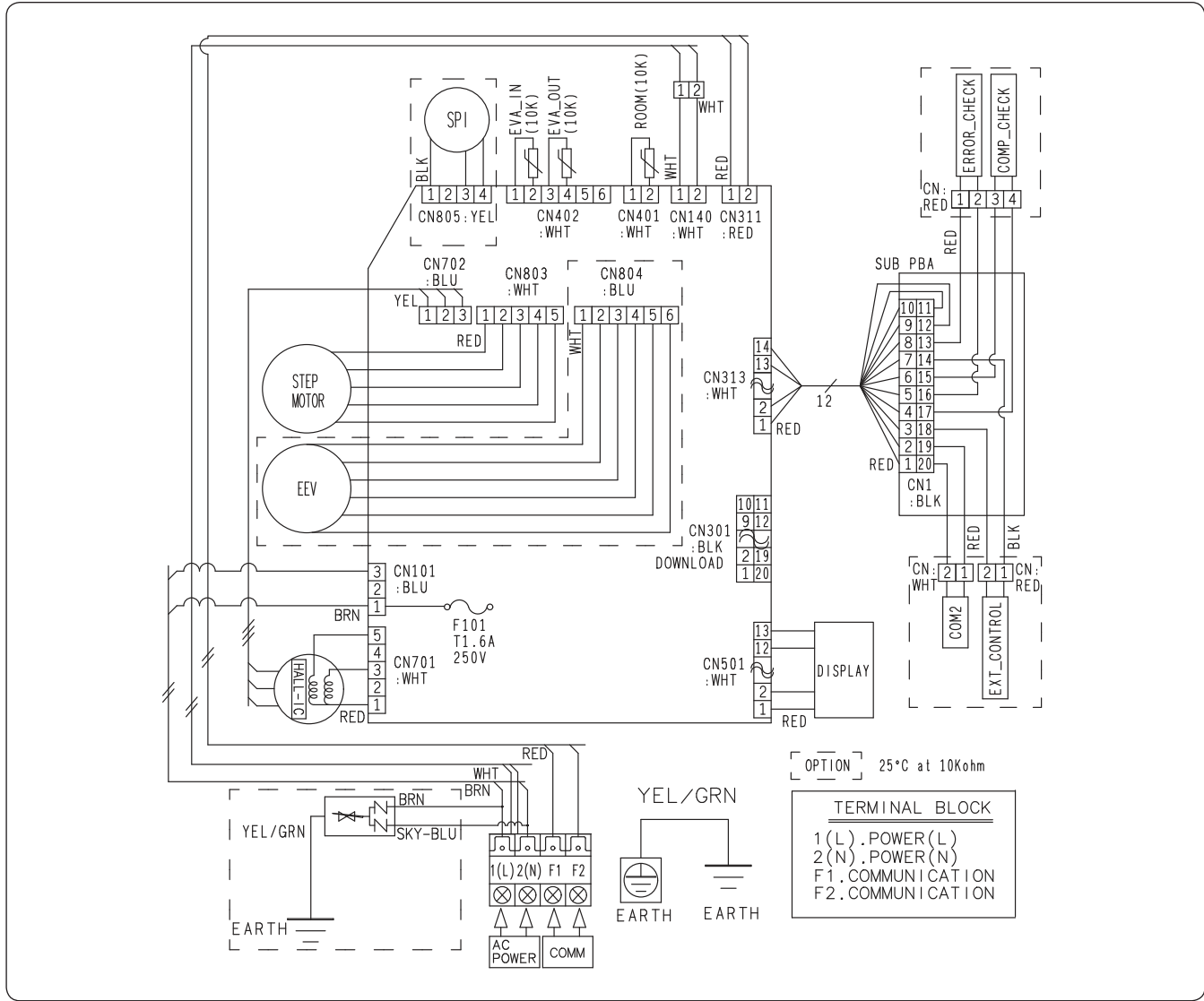


A	B	C
460	120	160

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

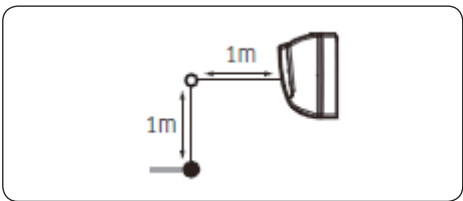
EARTH

 Protective earth(SCREW)

7. Sound Data

BORACAY

Sound Pressure Level

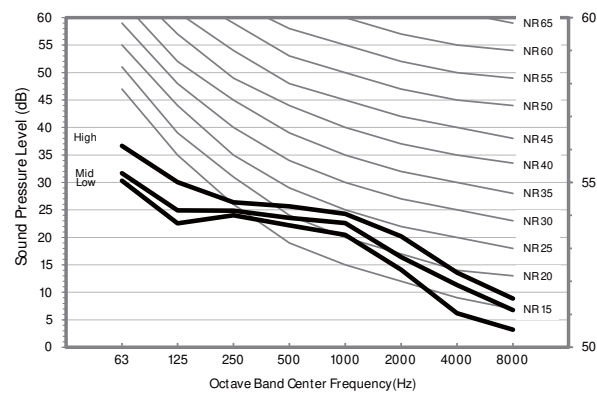


Unit: dB(A)

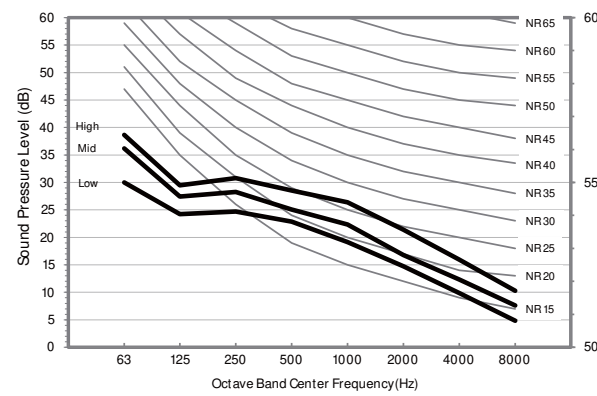
MODEL	Hi	MID	LOW
AM015KN*D*****	30	28	25
AM022KN*D*****	31	28	25
AM028KN*D*****	31	29	26
AM036KN*D*****	36	33	29

NR Curve

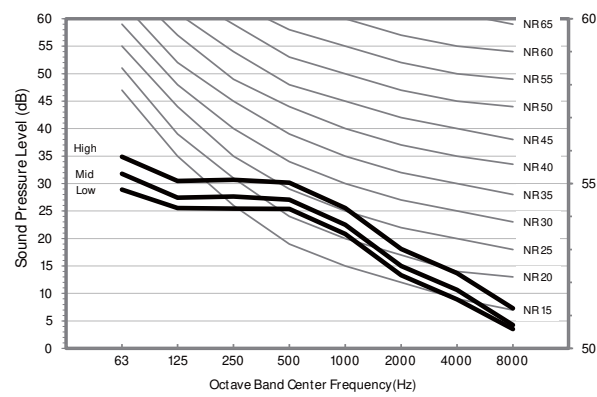
1) AM015KN*D*****



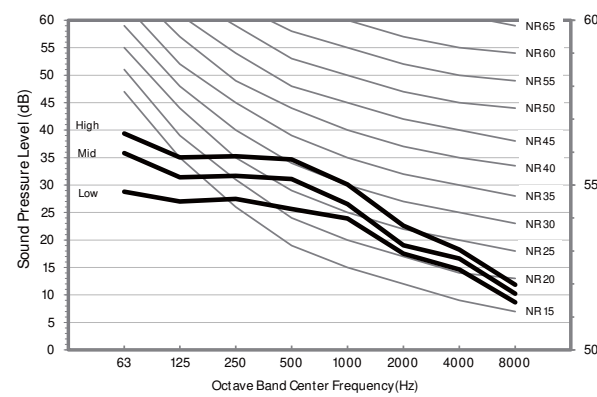
2) AM022KN*D*****



3) AM028KN*D*****



4) AM036KN*D*****



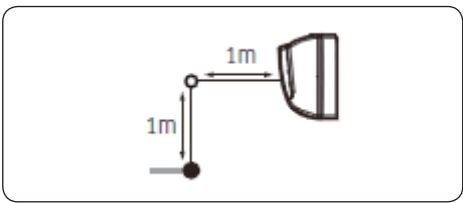
NOTE

- 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

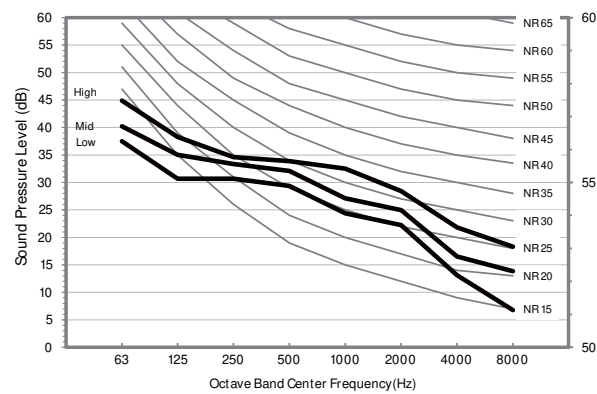


Unit: dB(A)

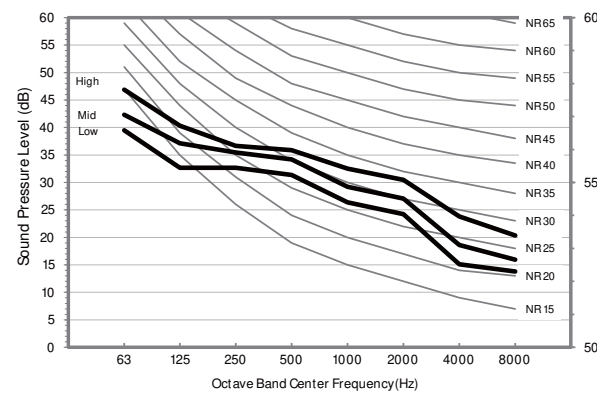
MODEL	Hi	MID	LOW
AM045KN*D*****	38	35	33
AM056KN*D*****	39	36	33
AM071KN*D*****	40	38	35

NR Curve

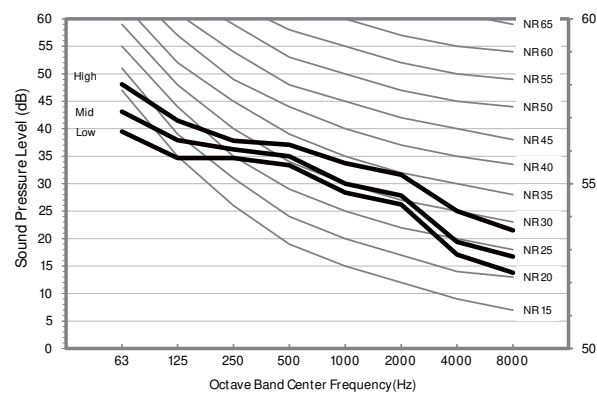
5) AM045KN*D*****



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

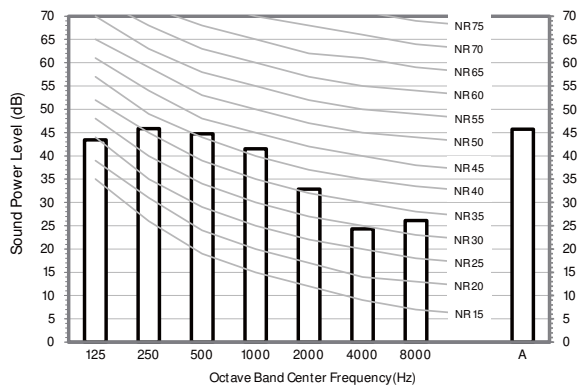
BORACAY

Sound Power Level

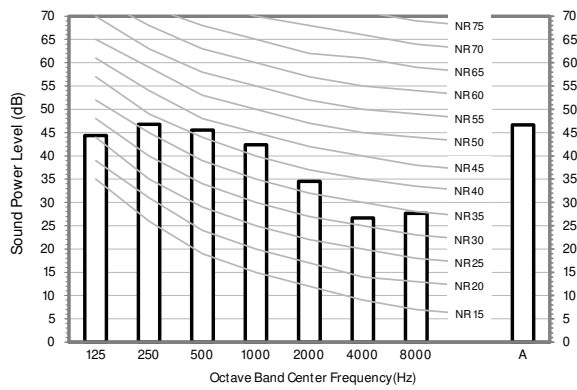
Unit : dB(A)

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

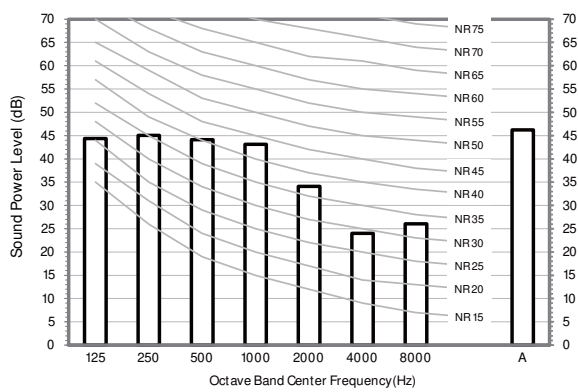
1) AM015KN*D*****



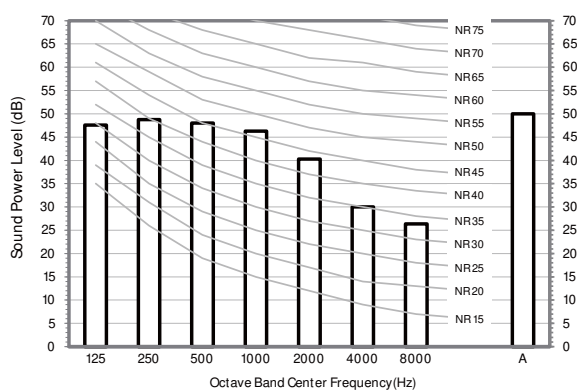
2) AM022KN*D*****



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

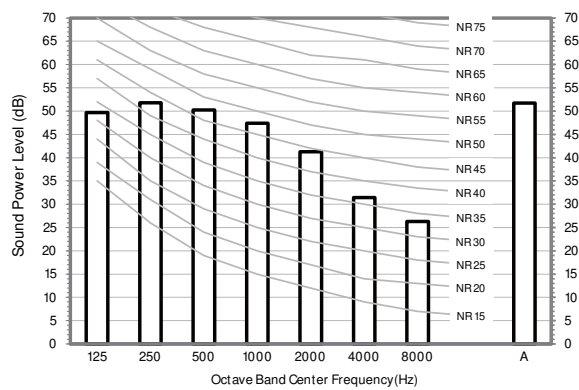
BORACAY

Sound Power Level

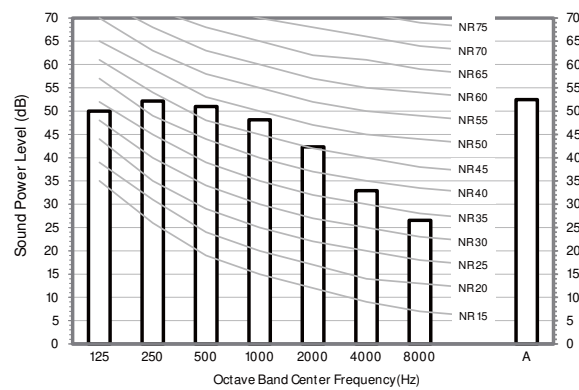
Unit: dB(A)

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

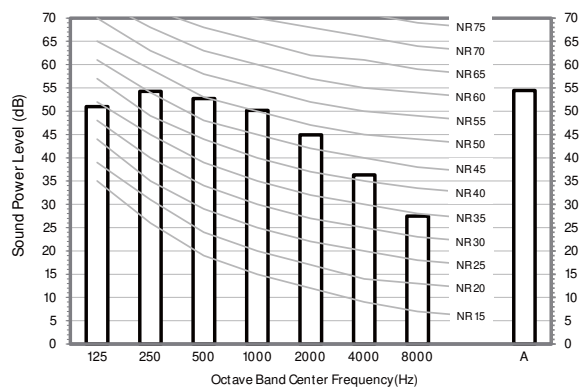
5) AM045KN*D*****



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.

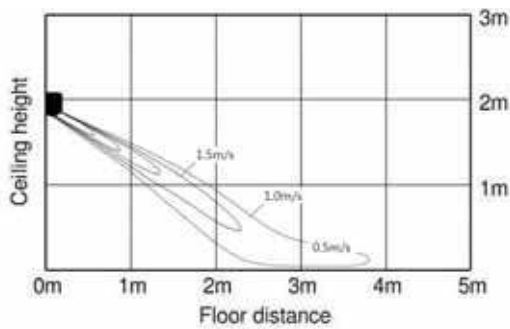
8. Temperature and Air Flow Distribution

BORACAY

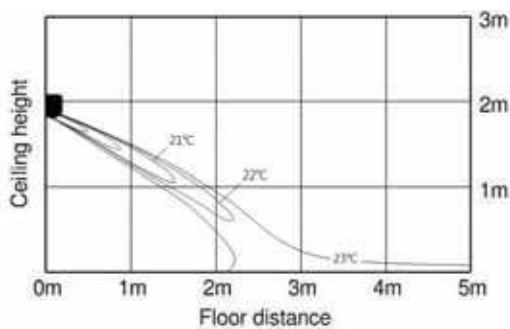
AM015KN*D*****

Discharge angle : 26°

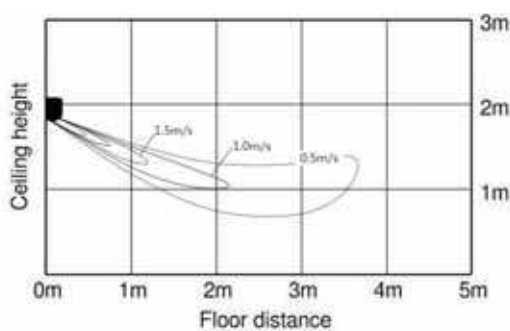
1) Cooling air velocity distribution



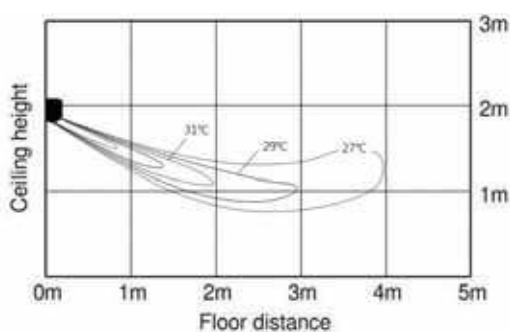
2) Cooling temperature distribution



3) Heating air velocity distribution



4) Heating temperature distribution



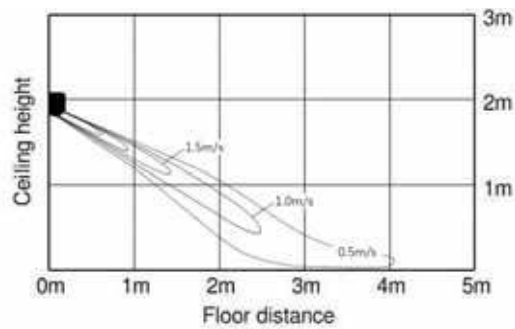
8. Temperature and Air Flow Distribution

BORACAY

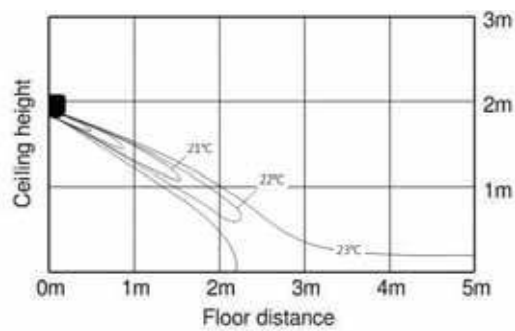
AM022KN* D*****

Discharge angle : 26°

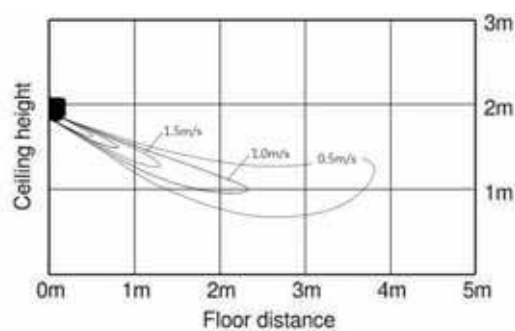
1) Cooling air velocity distribution



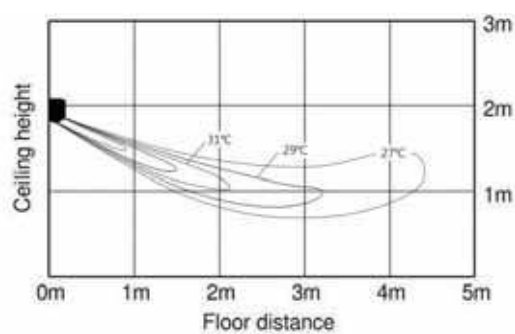
2) Cooling temperature distribution



3) Heating air velocity distribution



4) Heating temperature distribution



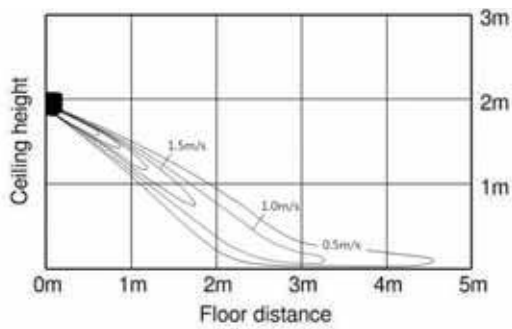
8. Temperature and Air Flow Distribution

BORACAY

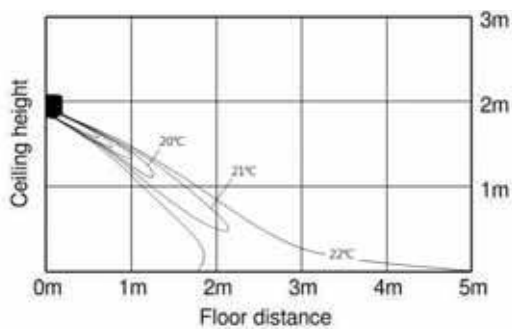
AM028KN*D*****

Discharge angle : 26°

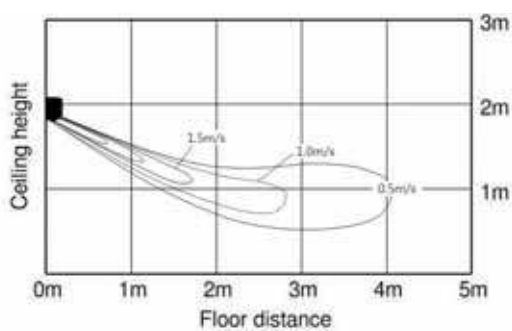
1) Cooling air velocity distribution



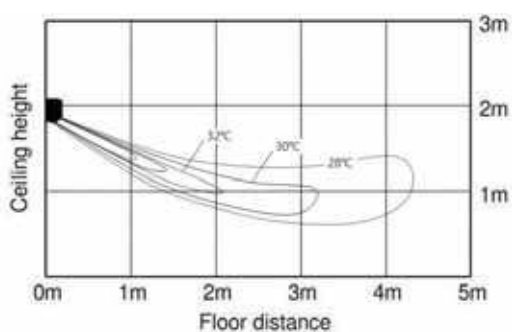
2) Cooling temperature distribution



3) Heating air velocity distribution



4) Heating temperature distribution



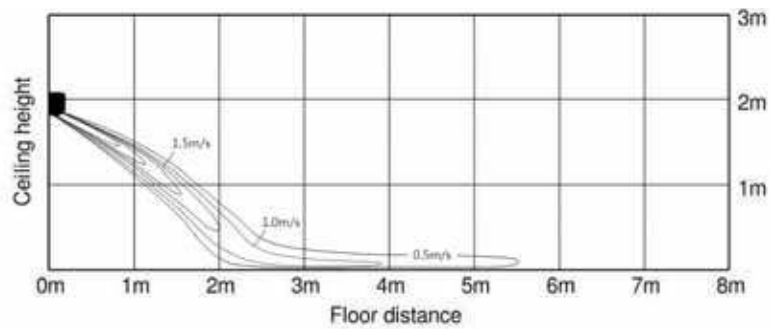
8. Temperature and Air Flow Distribution

BORACAY

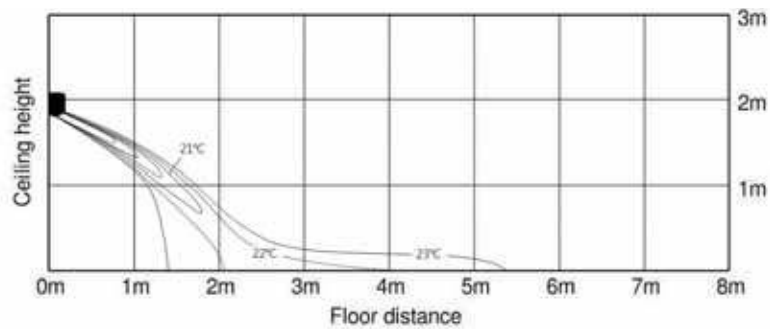
AM036KN*D*****

Discharge angle : 26°

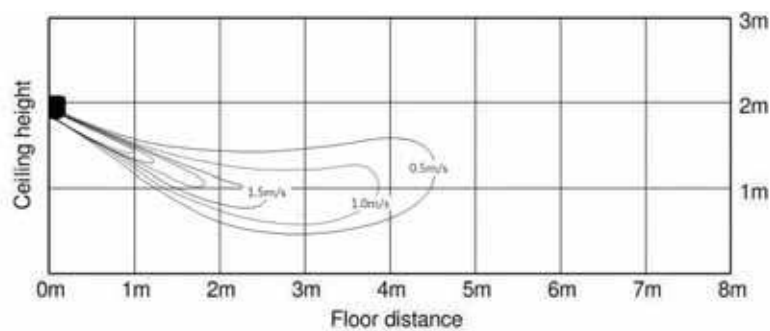
1) Cooling air velocity distribution



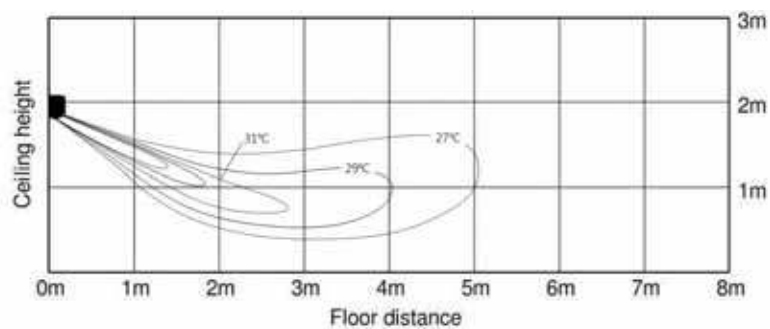
2) Cooling temperature distribution



3) Heating air velocity distribution



4) Heating temperature distribution



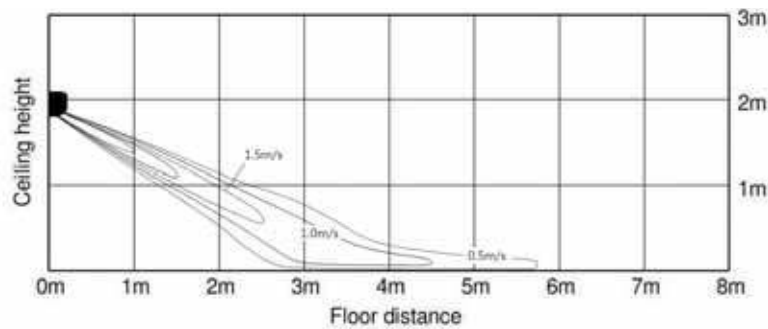
8. Temperature and Air Flow Distribution

BORACAY

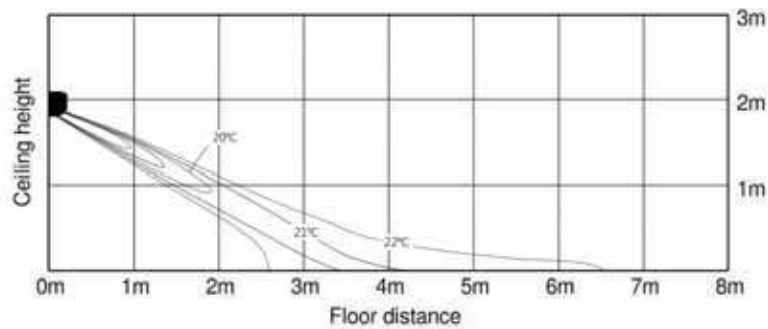
AM045KN*D*****

Discharge angle : 26°

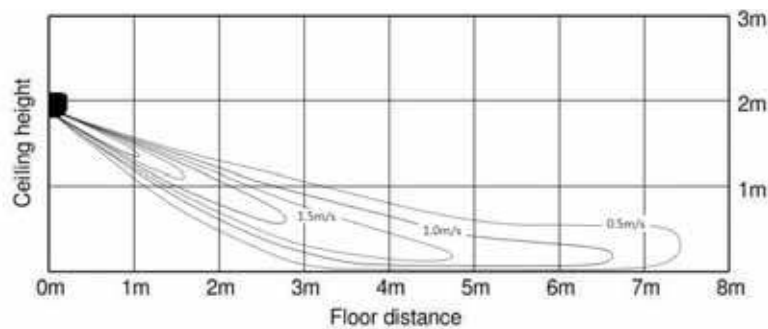
1) Cooling air velocity distribution



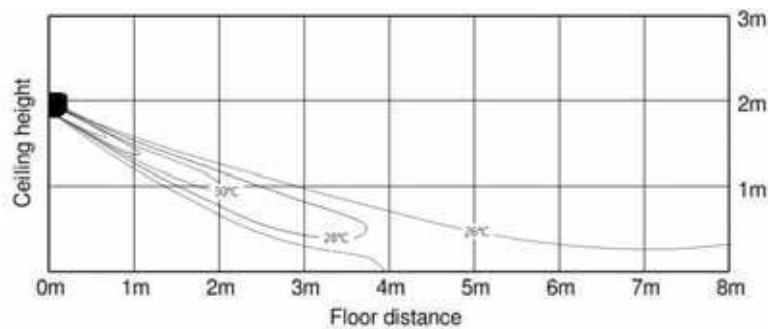
2) Cooling temperature distribution



3) Heating air velocity distribution



4) Heating temperature distribution



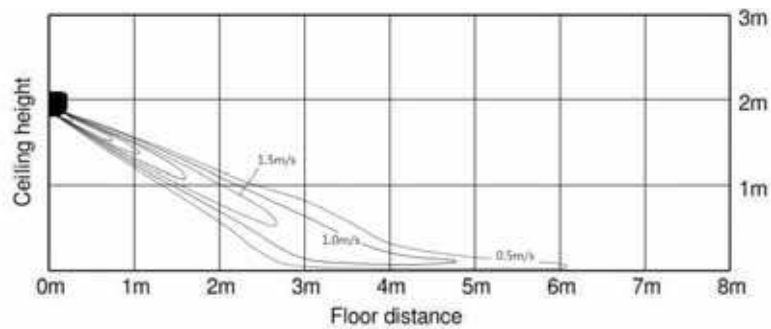
8. Temperature and Air Flow Distribution

BORACAY

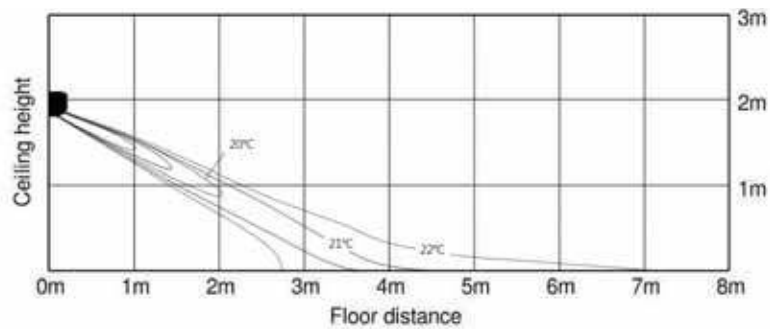
AM056KN*D*****

Discharge angle : 26°

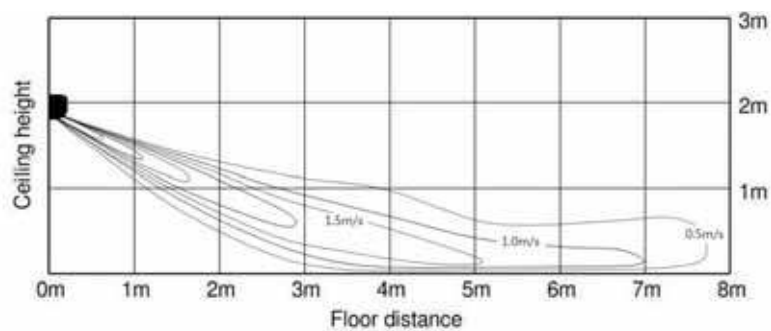
1) Cooling air velocity distribution



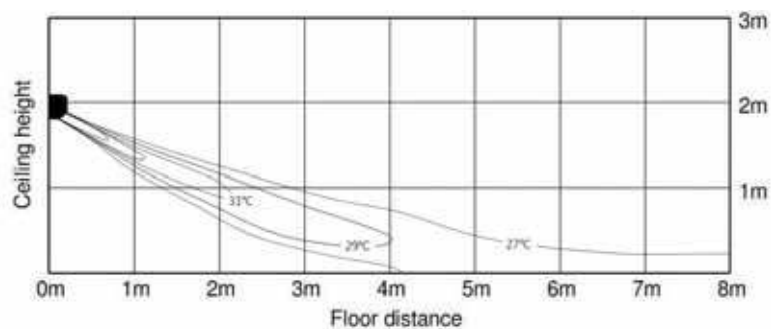
2) Cooling temperature distribution



3) Heating air velocity distribution



4) Heating temperature distribution



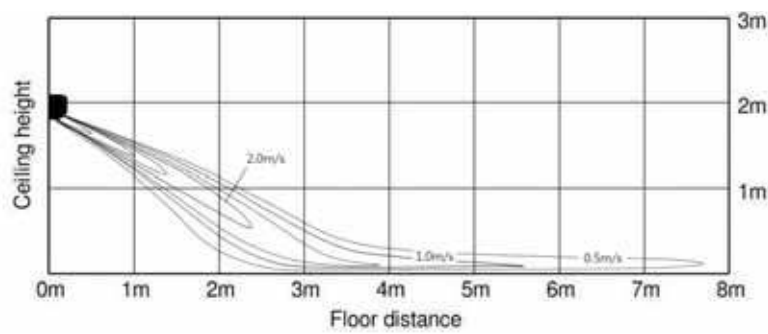
8. Temperature and Air Flow Distribution

BORACAY

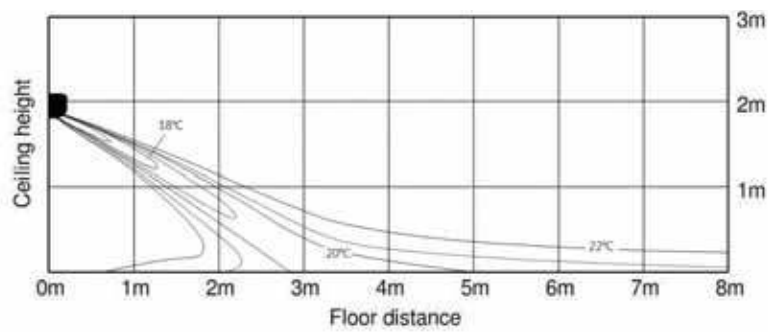
AM071KN*D*****

Discharge angle : 26°

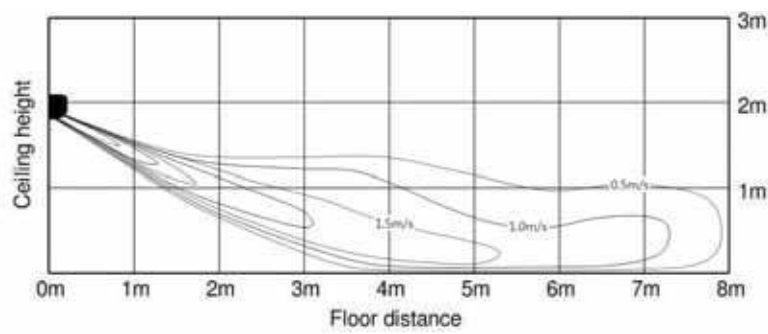
1) Cooling air velocity distribution



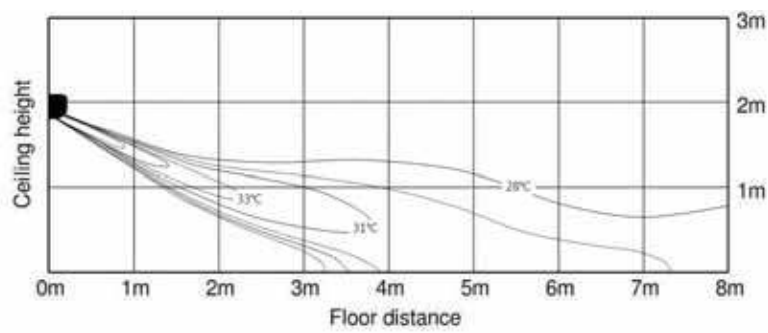
2) Cooling temperature distribution



3) Heating air velocity distribution



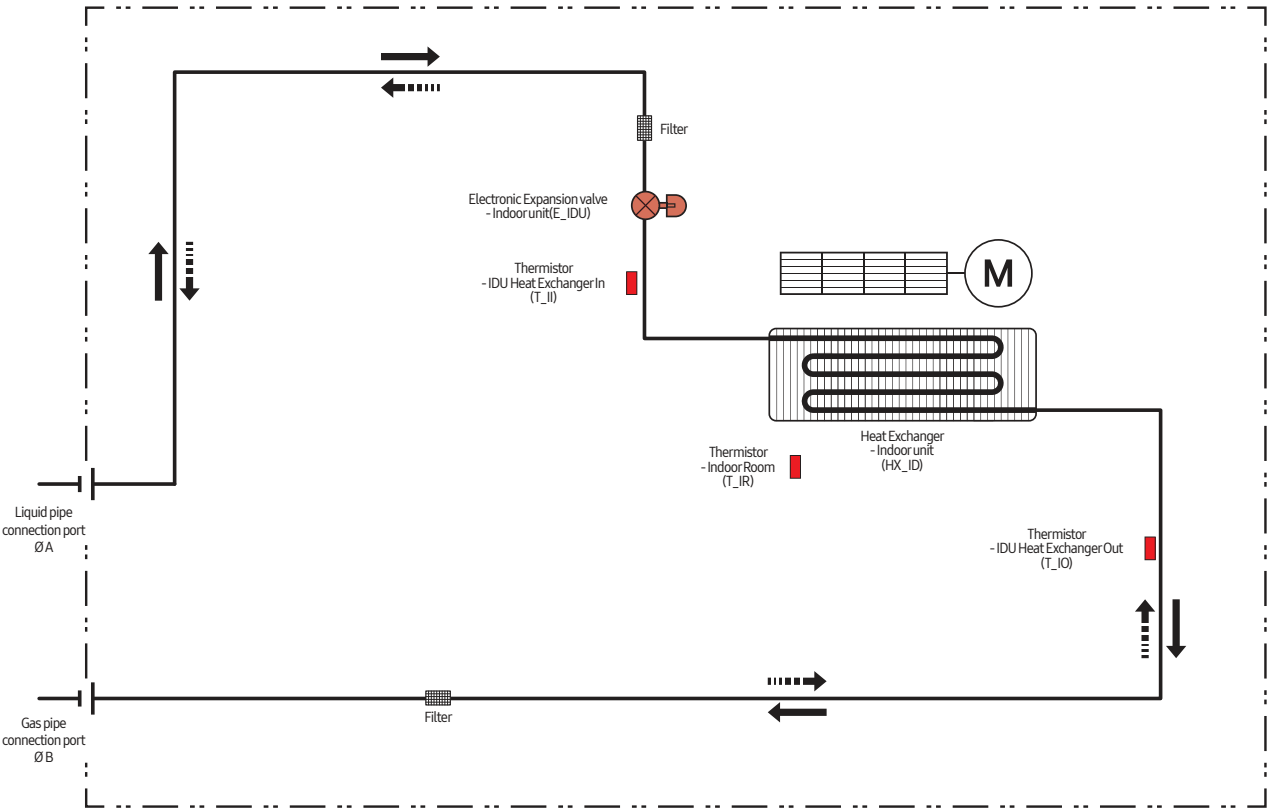
4) Heating temperature distribution



9. Piping Diagram

BORACAY

EEV included Model



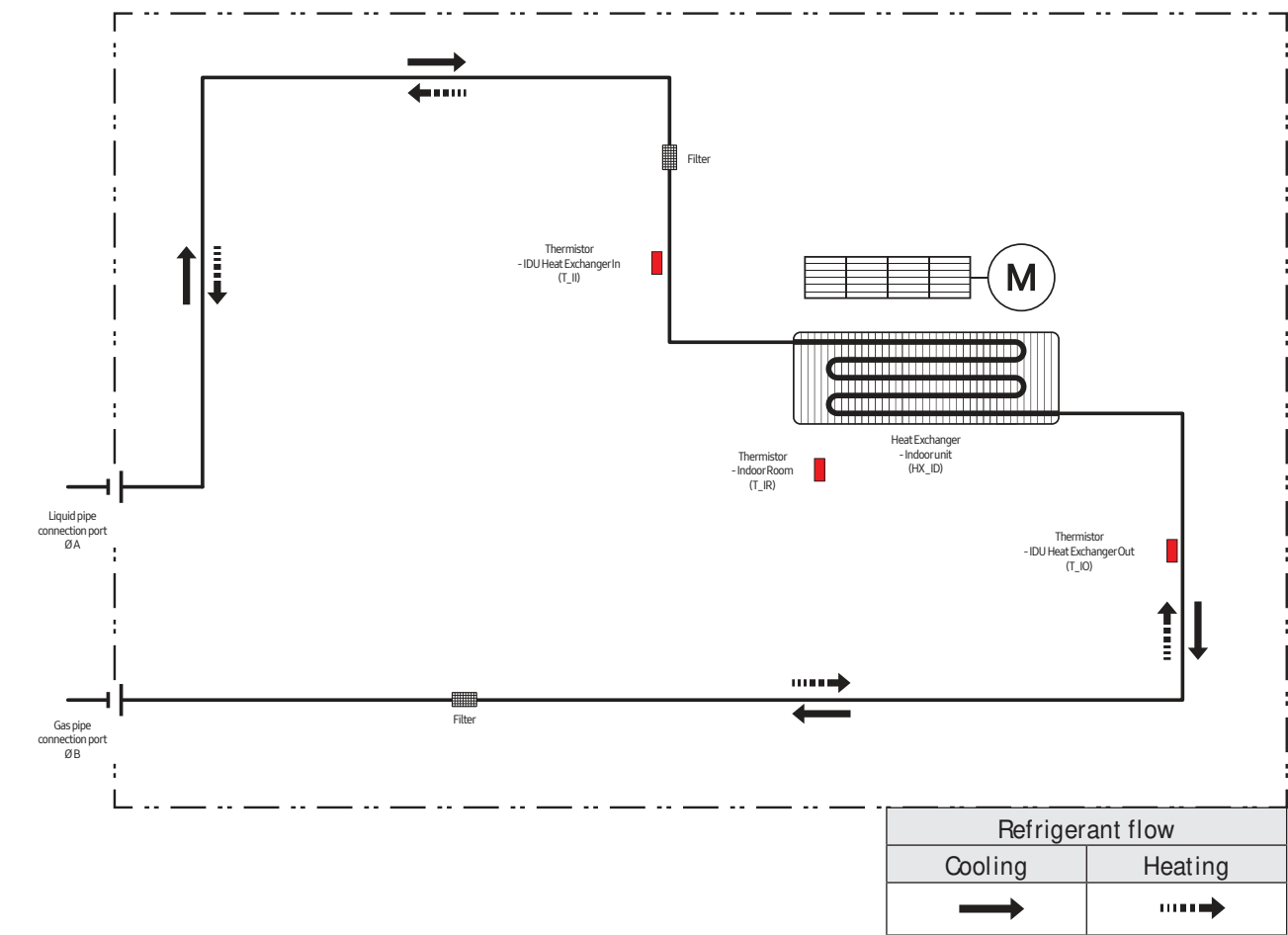
Refrigerant flow	
Cooling	Heating

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

9. Piping Diagram

BORACAY

EEV not included Model



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

Ceiling

- 1 *Specifications*
- 2 *Capacity Table*
- 3 *Dimensional Drawing*
- 4 *Electrical Wiring Diagram*
- 5 *Sound Pressure Level*
- 6 *Temperature and air flow distribution*

1 Specifications

Ceiling

1) Technical specifications

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

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

*1) Mode

- HP : Heat Pump, HR : Heat Recovery

*2) Nominal cooling capacities are based on;

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

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

*3) Nominal heating capacities are based on;

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

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

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

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

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

2 Capacity table

Ceiling

1) Cooling

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

Capacity Index	Outdoor Air Temp. (°C, DB)	Indoor temperature													
		20(°C, DB)		23(°C, DB)		26(°C, DB)		27(°C, DB)		28(°C, DB)		30(°C, DB)		32(°C, DB)	
		14(°C, WB)		16(°C, WB)		18(°C, WB)		19(°C, WB)		20(°C, WB)		22(°C, WB)		24(°C, WB)	
		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	3.9	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	42	3.9	3.2	4.6	3.5	5.3	3.9	5.5	3.8	5.7	3.9	6.1	3.7	6.4	3.3
	44	3.9	3.2	4.6	3.5	5.1	3.8	5.3	3.7	5.6	3.7	5.9	3.6	6.2	3.2
	46	3.9	3.2	4.6	3.5	5.0	3.7	5.2	3.6	5.4	3.6	5.7	3.5	6.0	3.1
	48	3.9	3.2	4.5	3.4	5.0	3.6	5.0	3.5	5.3	3.6	5.5	3.4	5.8	3.0
	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
	42	4.9	4.0	5.8	4.5	6.7	4.8	7.0	4.9	7.2	4.8	7.6	4.7	7.9	4.5
	44	4.9	4.0	5.8	4.5	6.5	4.6	6.8	4.8	7.0	4.7	7.3	4.5	7.6	4.3
	46	4.9	4.0	5.7	4.5	6.4	4.6	6.6	4.6	6.8	4.6	7.0	4.4	7.4	4.2
	48	4.8	3.9	5.7	4.4	6.3	4.5	6.4	4.5	6.7	4.5	6.8	4.3	7.2	4.1

2 Capacity table

Ceiling

2) Heating

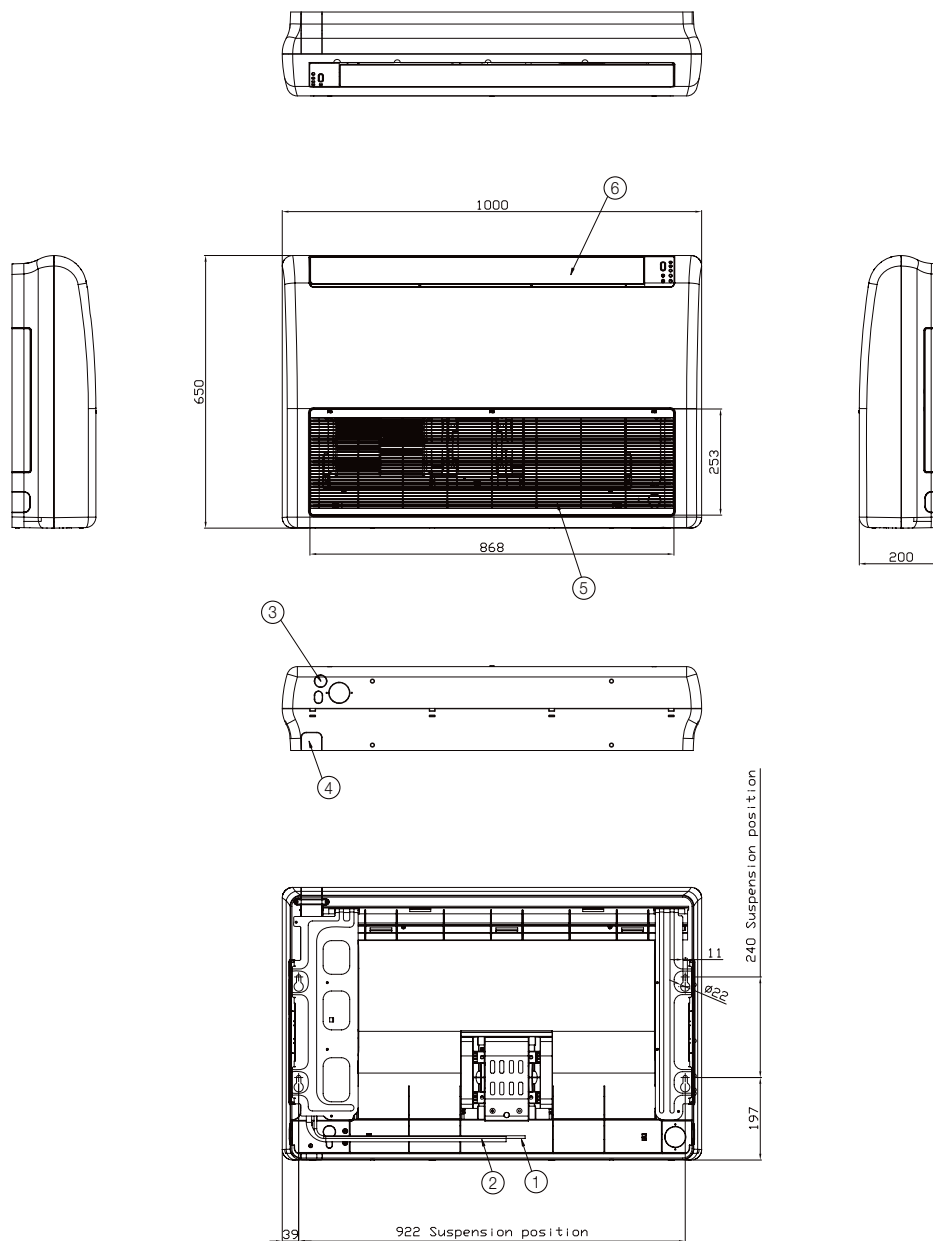
TC : Total Capacity(kW)

Capacity Index	Outdoor Air Temp. (°C)		Indoor temperature (°C,DB)				
			16(°C,DB)	18(°C,DB)	20(°C,DB)	22(°C,DB)	24(°C,DB)
	DB	WB	TC	TC	TC	TC	TC
056	-19.8	-20.0	kW	kW	kW	kW	kW
	-18.8	-19.0	3.9	3.8	3.8	3.7	3.7
	-16.7	-17.0	3.9	3.9	3.8	3.7	3.7
	-14.7	-15.0	4.0	4.0	3.9	3.8	3.8
	-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
071	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
	-19.8	-20.0	4.9	4.9	4.8	4.7	4.7
	-18.8	-19.0	5.0	4.9	4.8	4.7	4.7
	-16.7	-17.0	5.1	5.0	4.9	4.8	4.8
	-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

Ceiling

Unit:mm

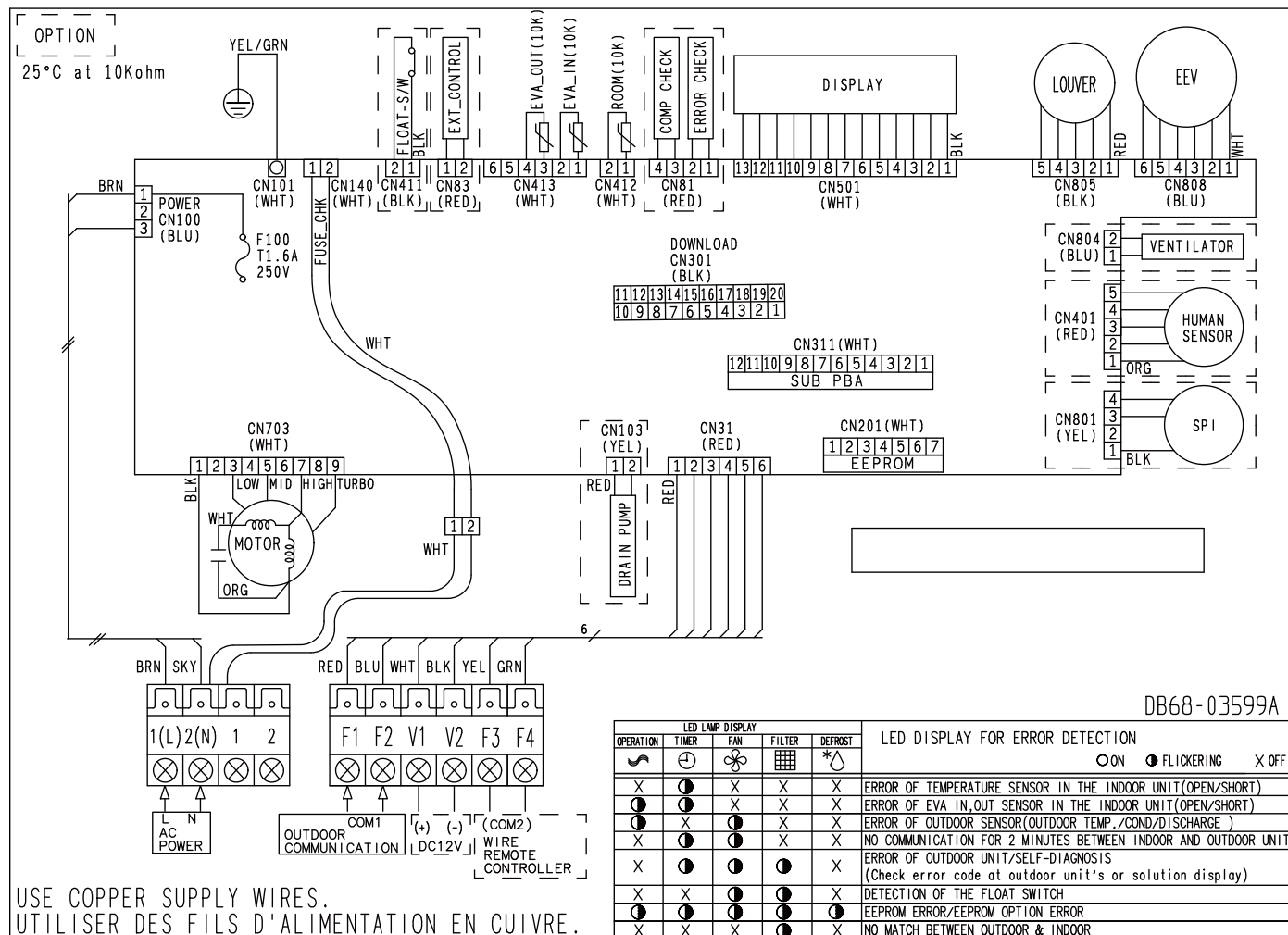


No.	Name	Description	
		5.6kW	7.1kW
①	Liquid pipe connection	Ø6.35 Flare	Ø9.52 Flare
②	Gas pipe connection	Ø12.70 Flare	Ø15.88 Flare
③	Drain pipe connection	ID18 Hose	
④	Conduit for power supply & communication wiring	-	
⑤	Air inlet grille	-	
⑥	Air outlet louver	-	

4 Electrical Wiring Diagram

Ceiling

AM056/071FNCDEH/EU



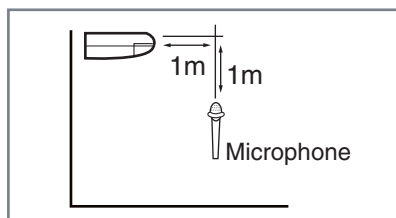
NOTE

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

Ceiling

1) Operation sound level



Unit : dB(A)

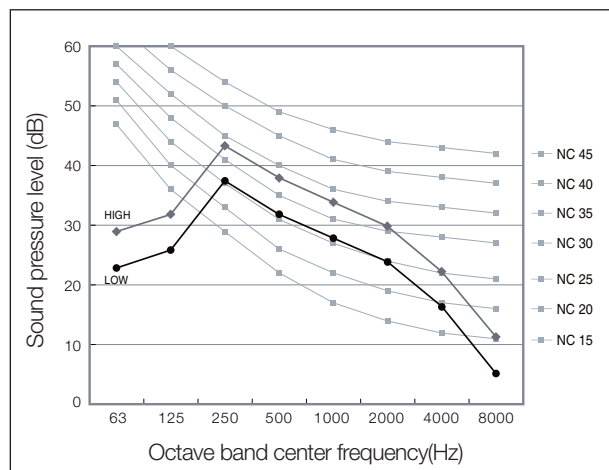
Model	High	Low
AM056FNCDEH***	40	34
AM071FNCDEH***	44	40

☒ Note

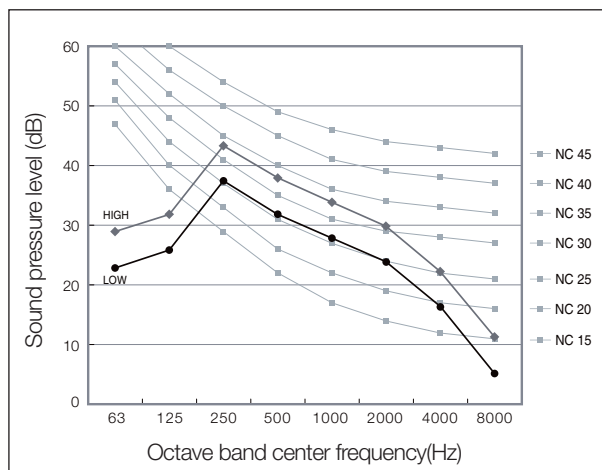
Specifications may be subject to change without prior notice.
 Sound pressure level is obtained in an anechoic room.
 Sound pressure level is a relative value, depending on the distance and acoustic environment.
 Sound pressure level may differ depending on operation condition.
 dBA = A-weighted sound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

2) NC curves

(1) AM056FNCDEH***



(2) AM071FNCDEH***



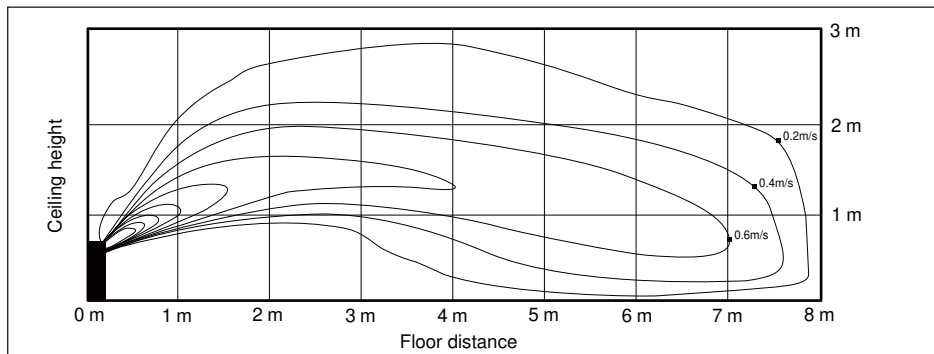
6 Temperature and air flow distribution

Ceiling

AM071FNCDEH/EU (Floor installation)

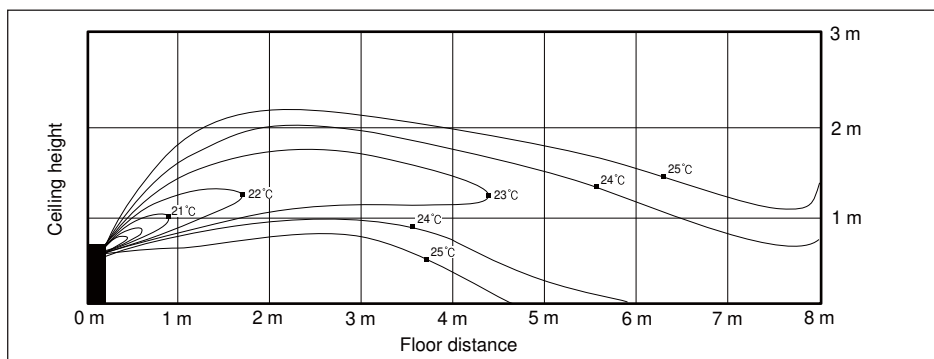
(1) Cooling air velocity distribution

Discharge angle : 36°



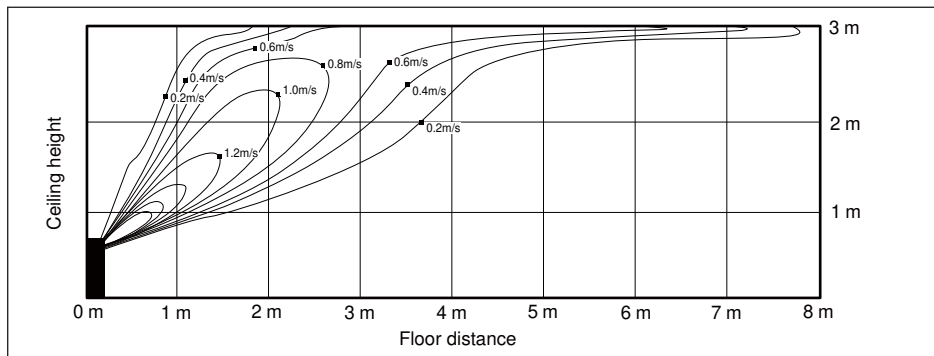
(2) Cooling temperature distribution

Discharge angle : 36°



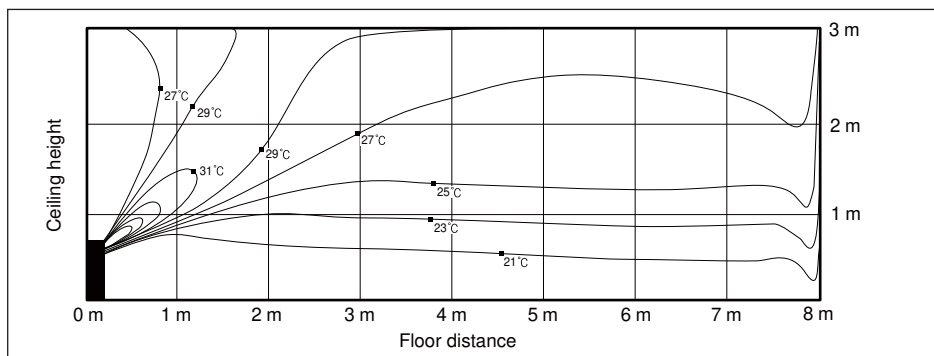
(3) Heating air velocity distribution

Discharge angle : 54°



(4) Heating temperature distribution

Discharge angle : 54°



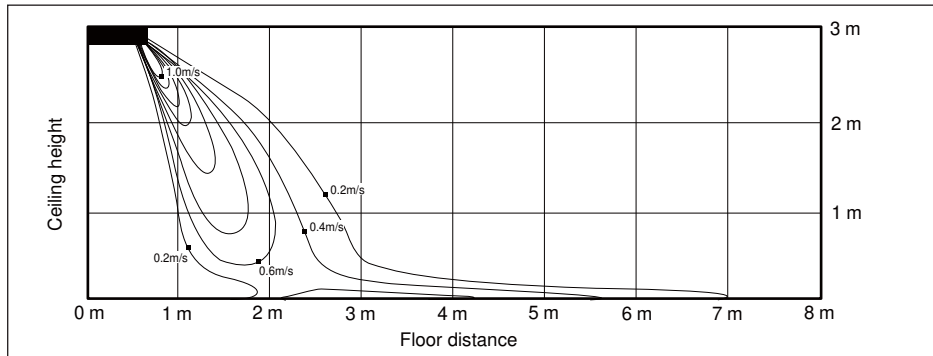
6 Temperature and air flow distribution

Ceiling

AM071FNCDEH/EU (Ceiling installation)

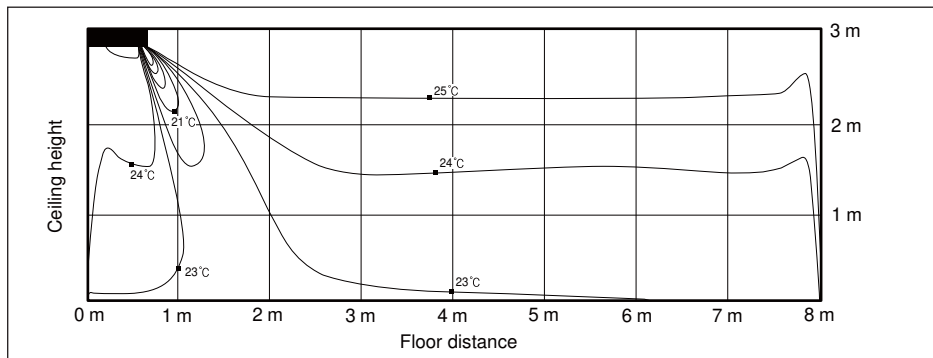
(1) Cooling air velocity distribution

Discharge angle : 36°



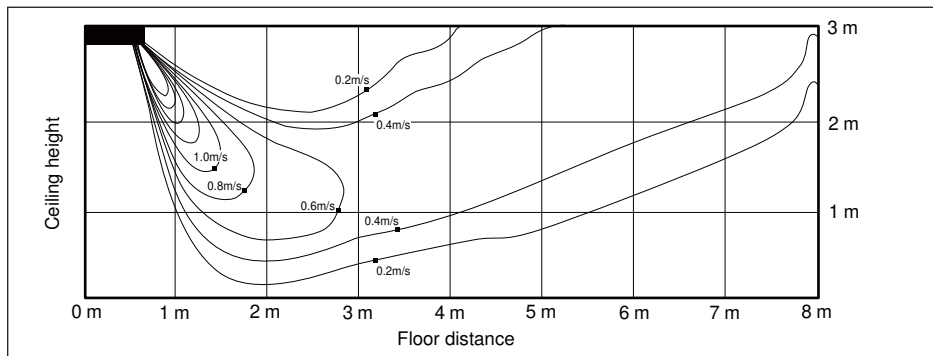
(2) Cooling temperature distribution

Discharge angle : 36°



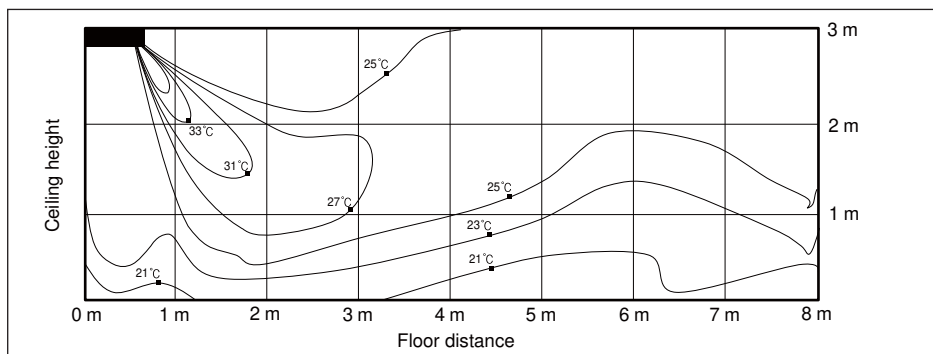
(3) Heating air velocity distribution

Discharge angle : 54°



(4) Heating temperature distribution

Discharge angle : 54°



Big Ceiling

- 1 *Specifications*
- 2 *Capacity Table*
- 3 *Dimensional Drawing*
- 4 *Electrical Wiring Diagram*
- 5 *Sound Pressure Level*
- 6 *Sound Power Level*
- 7 *Temperature and air flow distribution*

1 Specifications

Big Ceiling

Type				Ceiling		Ceiling		
Model				AM112JNC DKH/EU		AM140JNC DKH/EU		
Power Supply			Ø, #, V, Hz		1,2,220-240,50/60		1,2,220-240,50/60	
Mode			-		HP/HR		HP/HR	
Performance	Capacity (Nominal)	Cooling	kW		11.20		14.00	
			Btu/h		38,200		47,800	
		Heating	kW		12.50		16.00	
			Btu/h		42,700		54,600	
Power	Power Input (Nominal)	Cooling	W	92.00		160.00		
		Heating		80.00		160.00		
	Current Input (Nominal)	Cooling	A	0.94		1.45		
		Heating		0.83		1.45		
Fan	Motor	Type	-		Sirocco Fan		Sirocco Fan	
		Output x n	w		260 x 1		355 x 1	
	Air Flow Rate	H/M/L (UL)	CMM	29.30 / 23.90 / 18.50		36.40 / 30.80 / 26.00		
			l/s	488.33 / 398.33 / 308.33		606.67 / 513.33 / 433.33		
	External Pressure	Min/Std/Max	mmAq	-		-		
			Pa	-		-		
Piping Connections	Liquid Pipe		Ø, mm	9.52		9.52		
			Ø, inch	3/8"		3/8"		
	Gas Pipe		Ø, mm	15.88		15.88		
			Ø, inch	5/8"		5/8"		
	Drain Pipe		Ø, mm	VP25 (OD 25,ID 20)		VP25 (OD 25,ID 20)		
Field Wiring	Power Source Wire		mm²	1.5 - 2.5		1.5 - 2.5		
	Transmission Cable		mm²	0.75 - 1.50		0.75 - 1.50		
Refrigerant	Type		-		R410A		R410A	
	Control Method		-		EEV INCLUDED		EEV INCLUDED	
Sound	Pressure	High / Mid / Low	dB(A)	45 / 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

Capacity Index	Outdoor Air Temp. (°C, DB)	Indoor temperature													
		20(°C, DB)		23(°C, DB)		26(°C, DB)		27(°C, DB)		28(°C, DB)		30(°C, DB)		32(°C, DB)	
		14(°C, WB)		16(°C, WB)		18(°C, WB)		19(°C, WB)		20(°C, WB)		22(°C, WB)		24(°C, WB)	
		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
	42	7.7	6.3	9.1	7.0	10.4	7.7	11.1	7.9	11.4	7.7	11.9	7.6	12.4	7.3
	44	7.7	6.3	9.1	7.0	10.1	7.5	10.7	7.6	11.0	7.5	11.4	7.3	12.0	7.1
	46	7.7	6.3	9.0	6.9	10.0	7.4	10.4	7.4	10.7	7.3	11.0	7.0	11.6	6.9
	48	7.6	6.2	8.9	6.8	9.8	7.3	10.1	7.2	10.5	7.1	10.7	6.8	11.2	6.6
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
	42	9.7	7.7	11.4	8.5	13.0	9.3	13.8	9.5	14.2	9.3	14.8	9.1	15.5	8.8
	44	9.7	7.7	11.4	8.5	12.7	9.1	13.4	9.2	13.8	9.0	14.2	8.8	15.0	8.5
	46	9.7	7.7	11.3	8.4	12.4	8.9	12.9	8.9	13.4	8.8	13.8	8.5	14.6	8.2
	48	9.6	7.6	11.1	8.3	12.2	8.8	12.6	8.6	13.1	8.6	13.4	8.2	14.1	8.0

2 Capacity table

Big Ceiling

Heating

TC : Total Capacity

Capacity Index	Outdoor Air Temp. (°C)		Indoor temperature (°C,DB)				
			16(°C,DB)	18(°C,DB)	20(°C,DB)	22(°C,DB)	24(°C,DB)
	DB	WB	TC kW	TC kW	TC kW	TC kW	TC kW
112	-19.8	-20.0	7.4	7.4	7.3	7.3	7.3
	-18.8	-19.0	7.6	7.6	7.4	7.4	7.3
	-16.7	-17.0	8.1	7.8	7.6	7.5	7.4
	-14.7	-15.0	8.4	8.2	8.0	7.8	7.6
	-12.6	-13.0	8.7	8.5	8.3	8.1	8.0
	-10.5	-11.0	9.1	8.9	8.8	8.7	8.6
	-9.5	-10.0	9.3	9.1	9.0	8.9	8.8
	-8.5	-9.1	9.5	9.3	9.2	9.0	8.9
	-7.0	-7.6	9.7	9.6	9.4	9.2	9.0
	-5.0	-5.6	10.2	10.1	9.9	9.6	9.3
	-3.0	-3.7	10.7	10.6	10.5	10.1	9.7
	0.0	-0.7	11.3	11.1	11.1	10.5	10.0
	3.0	2.2	11.8	11.6	11.5	11.0	10.6
	5.0	4.1	12.3	12.2	12.0	11.3	10.6
	7.0	6.0	12.9	12.7	12.5	11.5	10.6
	9.0	7.9	13.3	12.9	12.5	11.5	10.6
140	-19.8	-20.0	9.5	9.5	9.4	9.4	9.3
	-18.8	-19.0	9.7	9.7	9.5	9.5	9.3
	-16.7	-17.0	10.2	10.0	9.7	9.6	9.4
	-14.7	-15.0	10.8	10.5	10.2	9.9	9.6
	-12.6	-13.0	11.1	10.9	10.7	10.4	10.1
	-10.5	-11.0	11.6	11.5	11.3	11.1	10.9
	-9.5	-10.0	11.8	11.7	11.5	11.4	11.2
	-8.5	-9.1	12.1	11.9	11.8	11.6	11.3
	-7.0	-7.6	12.4	12.2	12.1	11.8	11.5
	-5.0	-5.6	13.1	12.9	12.7	12.3	12.0
	-3.0	-3.7	13.8	13.6	13.4	12.9	12.4
	0.0	-0.7	14.4	14.2	14.0	13.4	12.8
	3.0	2.2	15.1	14.9	14.7	14.1	13.5
	5.0	4.1	15.8	15.6	15.3	14.4	13.5
	7.0	6.0	16.5	16.2	16.0	14.8	13.5
	9.0	7.9	17.0	16.5	16.0	14.8	13.5
	11.0	9.8	17.5	16.7	16.0	14.8	13.5
	13.0	11.8	18.0	17.0	16.0	14.8	13.5
	15.0	13.7	18.5	17.2	16.0	14.8	13.5

3 Dimensional drawing

Big Ceiling

AM112JNCDKH/EU

Units : mm/inches

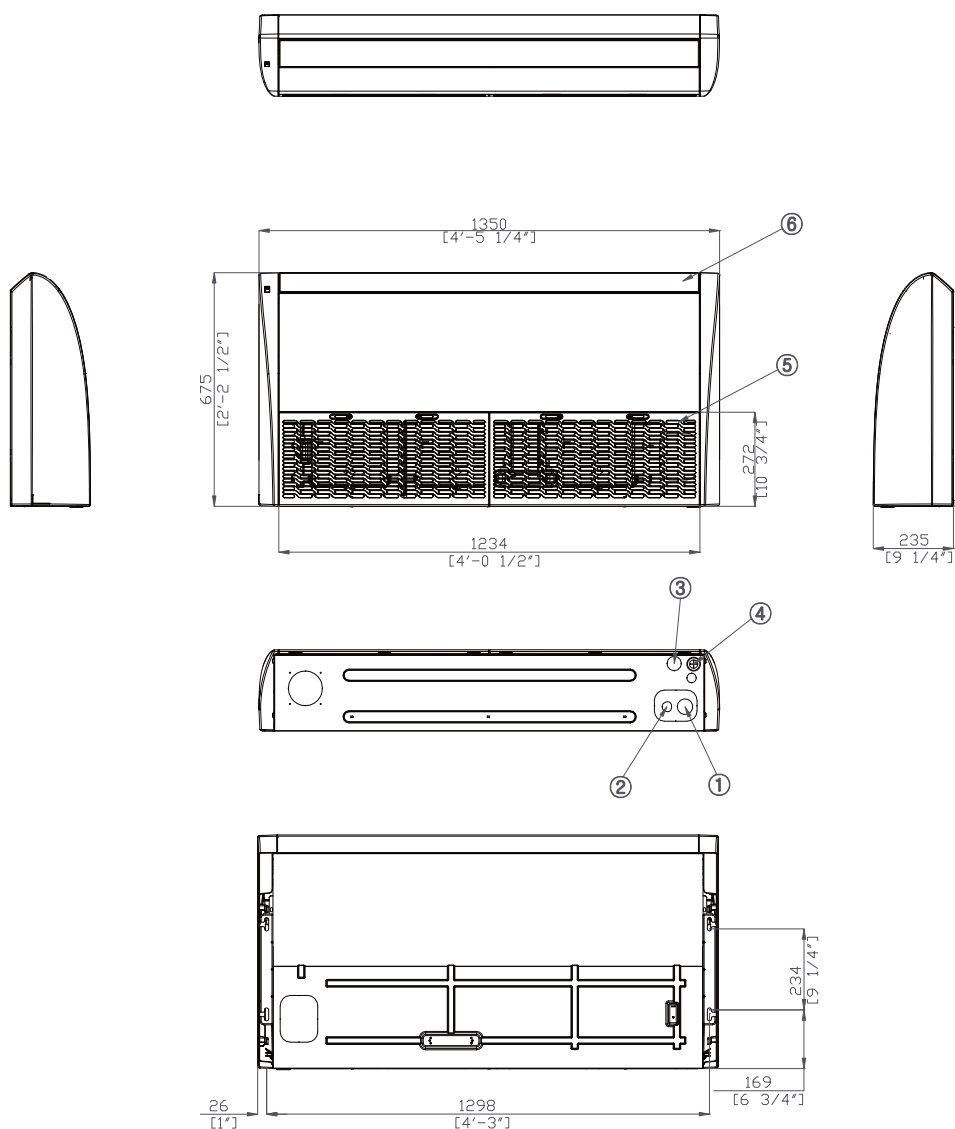


Table of descriptions

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

3 Dimensional drawing

Big Ceiling

AM140JNCDKH/EU

Units : mm/inches

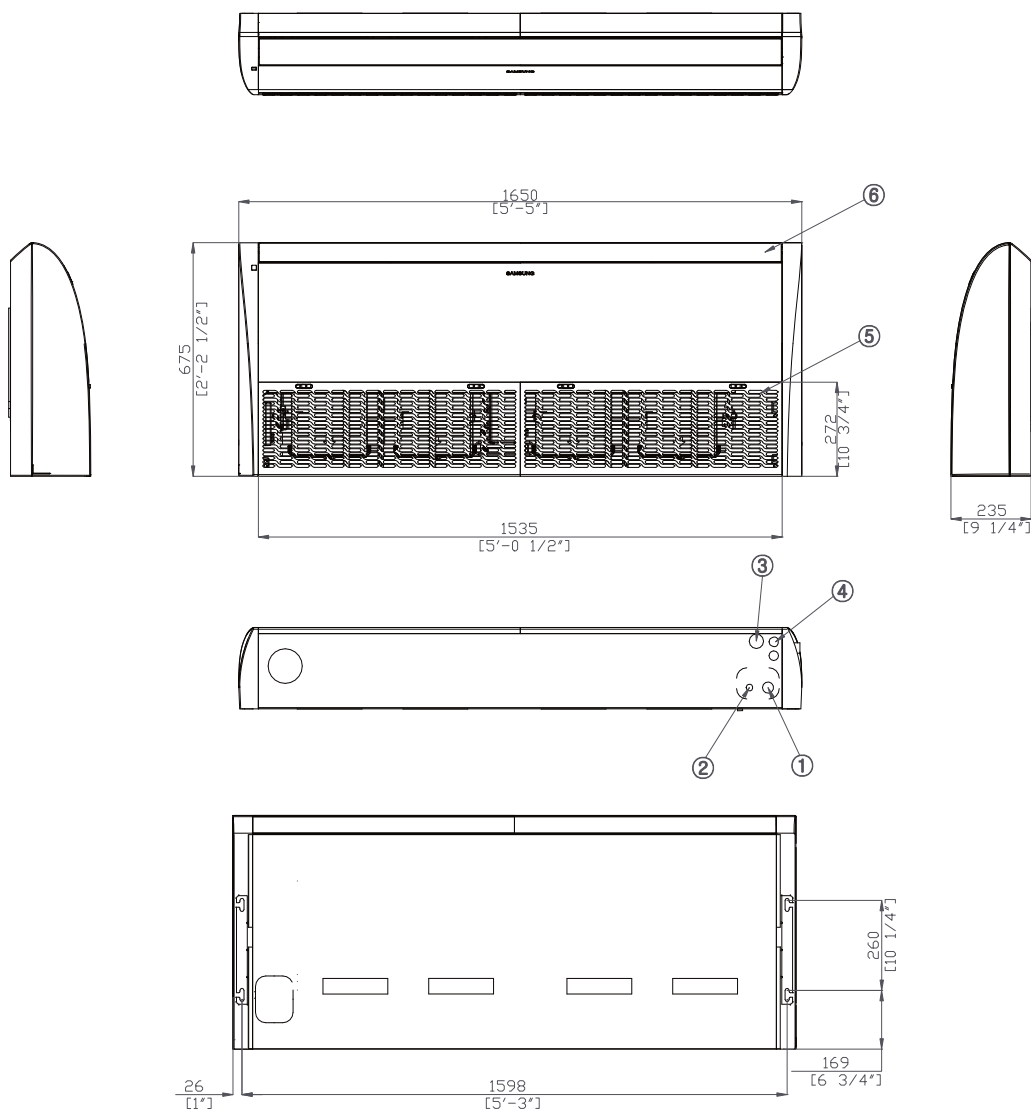


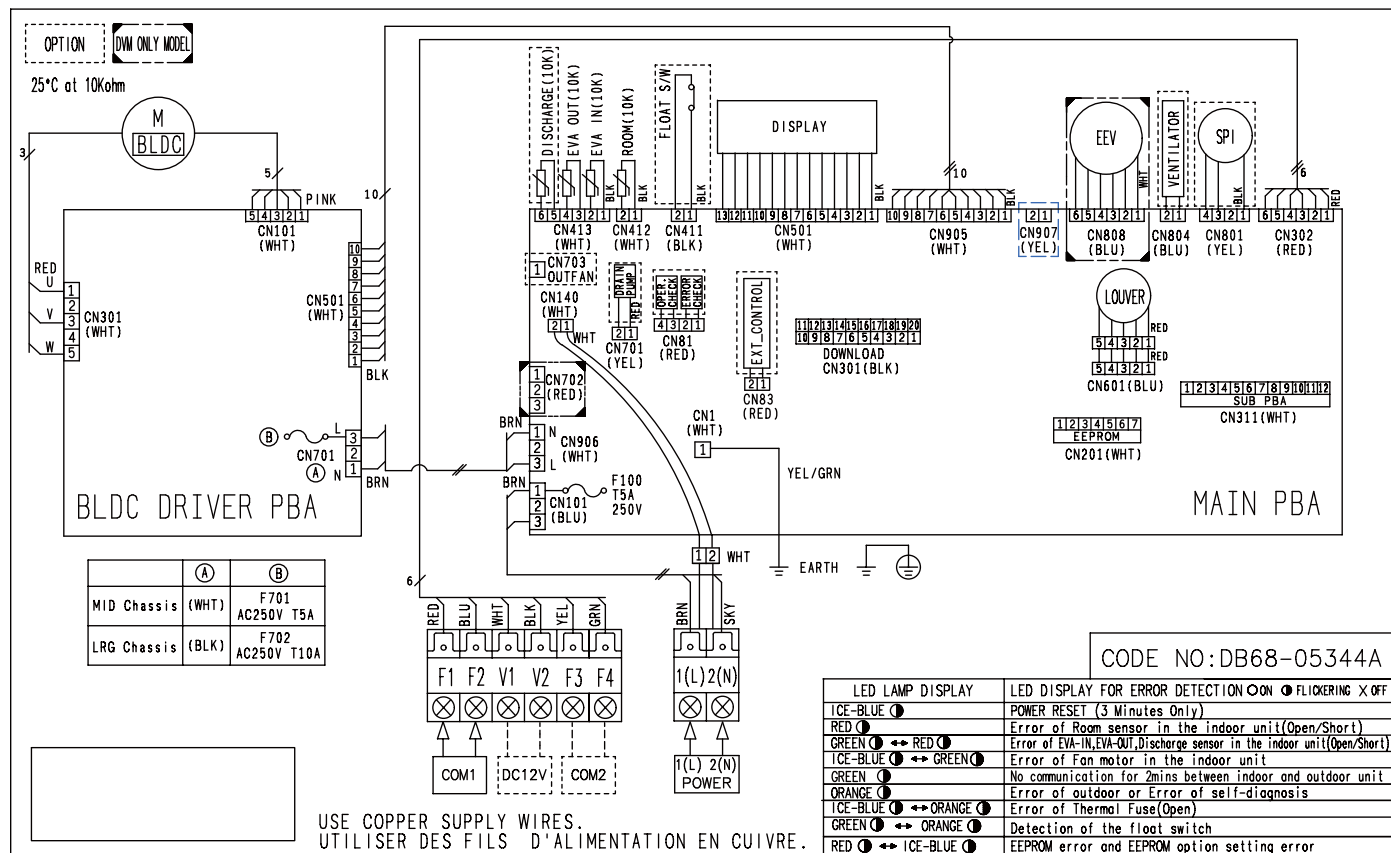
Table of descriptions

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

4 Electrical Wiring Diagram

Big Ceiling

AM112/140JNCDKH/EU

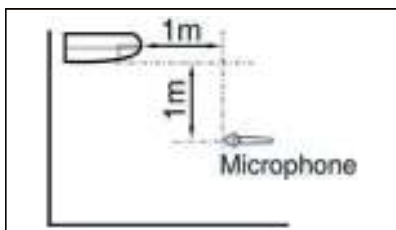


NOTE

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)

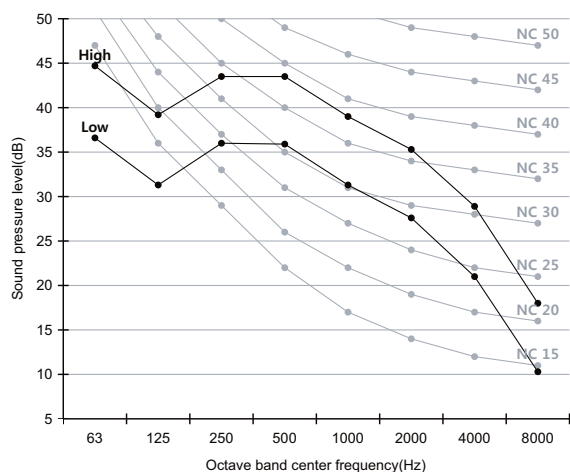
Model	High	Low
AM112JNC DKH/EU	45	37
AM140JNC DKH/EU	46	38

Note

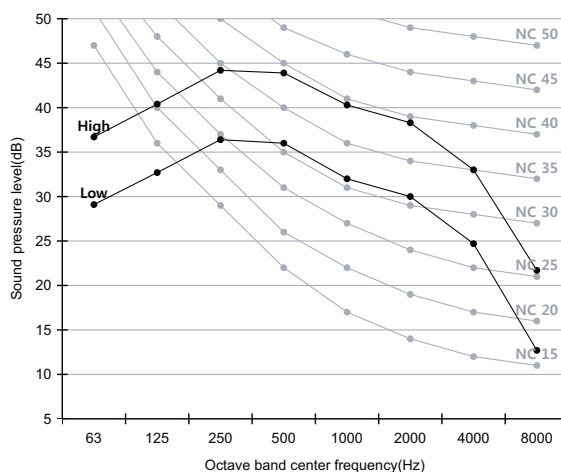
Specifications may be subject to change without prior notice.
Sound pressure level is obtained in an anechoic room.
Sound pressure level is a relative value, depending on the distance and acoustic environment.
Sound pressure level may differ depending on operation condition.
dBA = A-weighted sound pressure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

NC curve

1) AM112JNC DKH/EU



2) AM140JNC DKH/EU



6 Sound power level

Big Ceiling

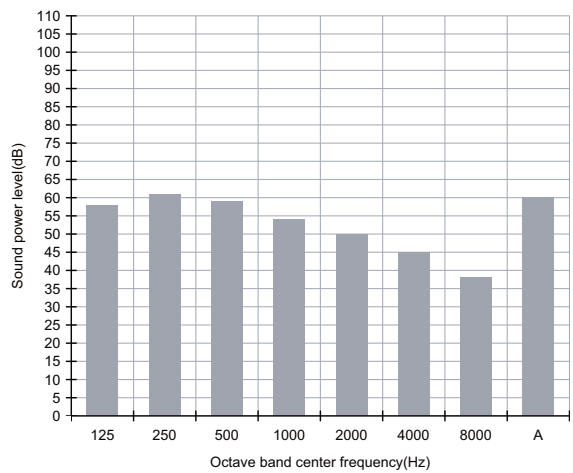
Note

- . 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

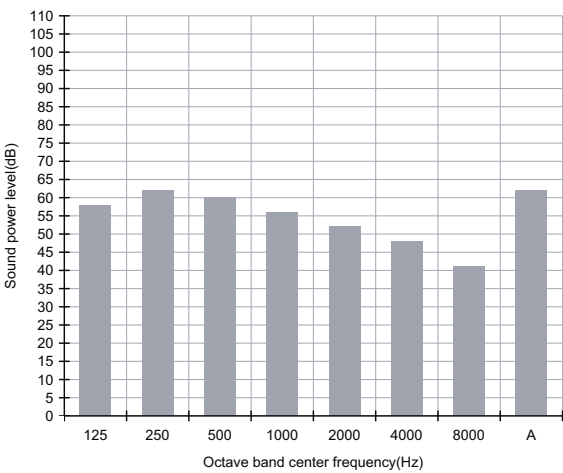
Unit: dB(A)

Model	Power
AM112JNCDKH/EU	61
AM140JNCDKH/EU	63

1)AM112JNCDKH/EU



2)AM140JNCDKH/EU



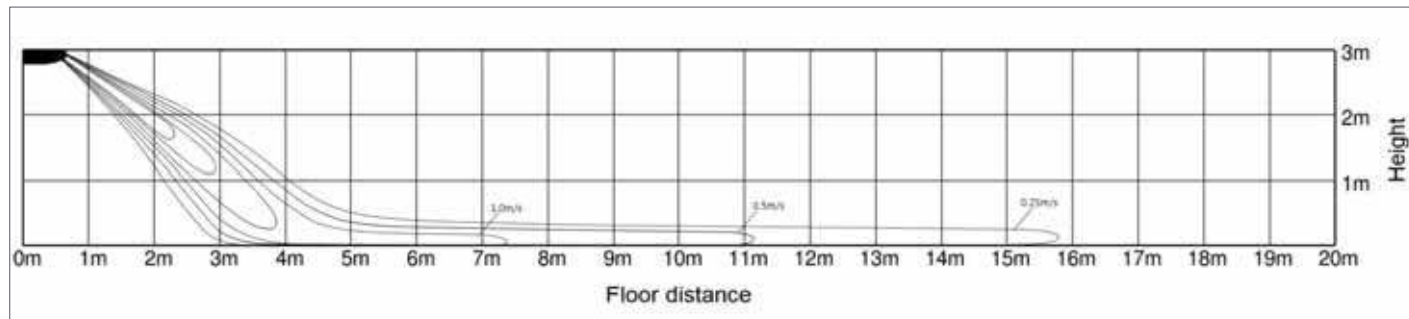
7 Temperature and air flow distribution

Big Ceiling

AM112JNCDKH/EU

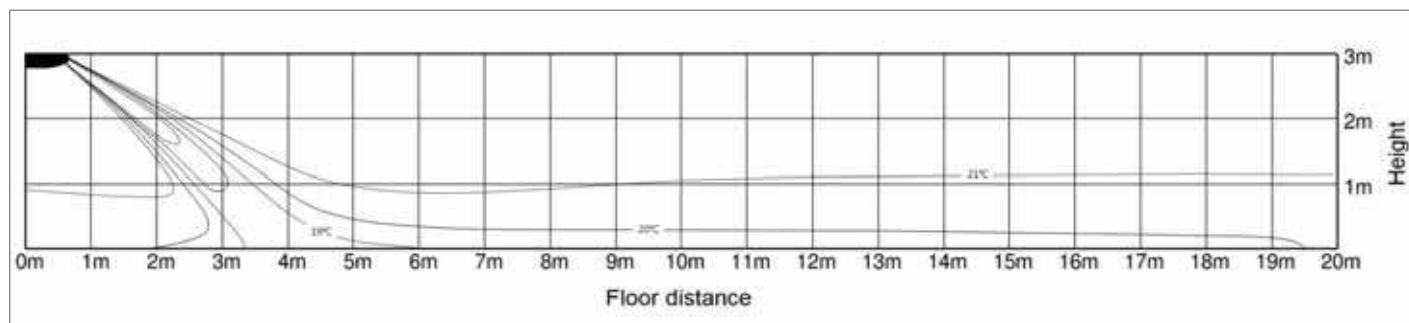
(1) Cooling air velocity distribution

Discharge angle : 32°



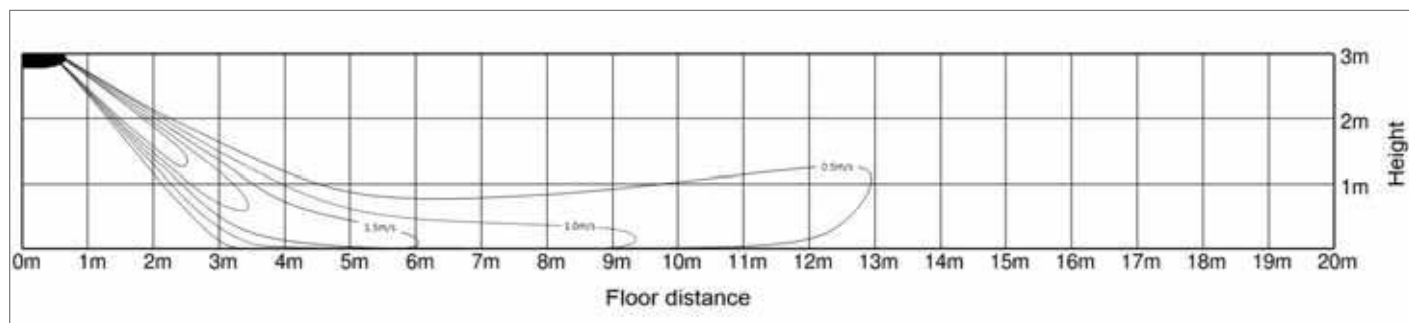
(2) Cooling temperature distribution

Discharge angle : 32°



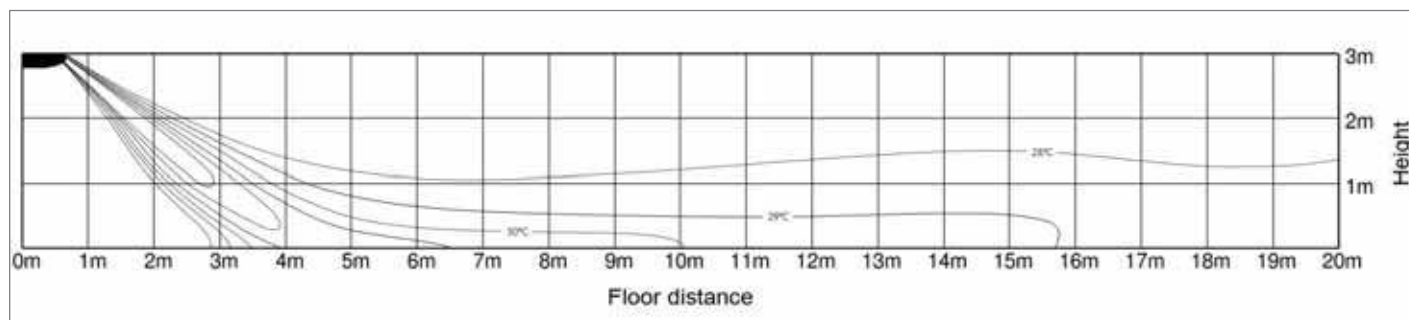
(3) Heating air velocity distribution

Discharge angle : 43°



(4) Heating temperature distribution

Discharge angle : 43°



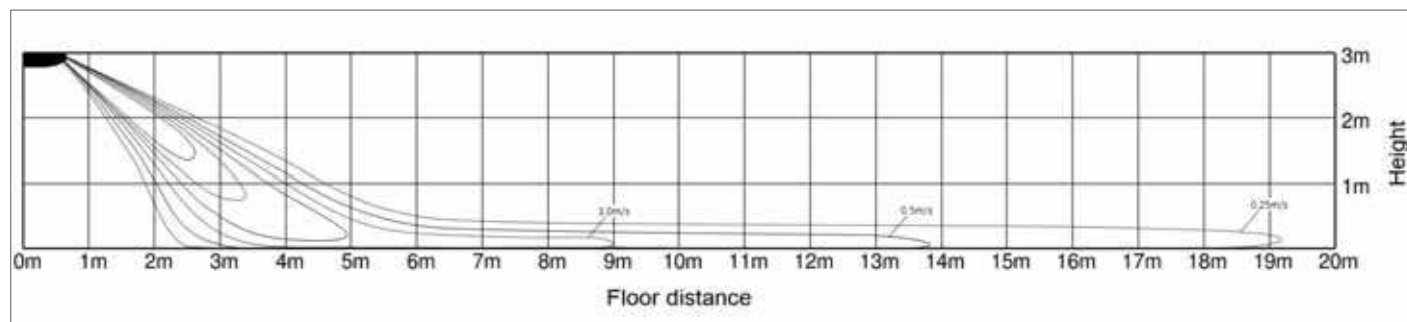
7 Temperature and air flow distribution

Big Ceiling

AM140JNCDKH/EU

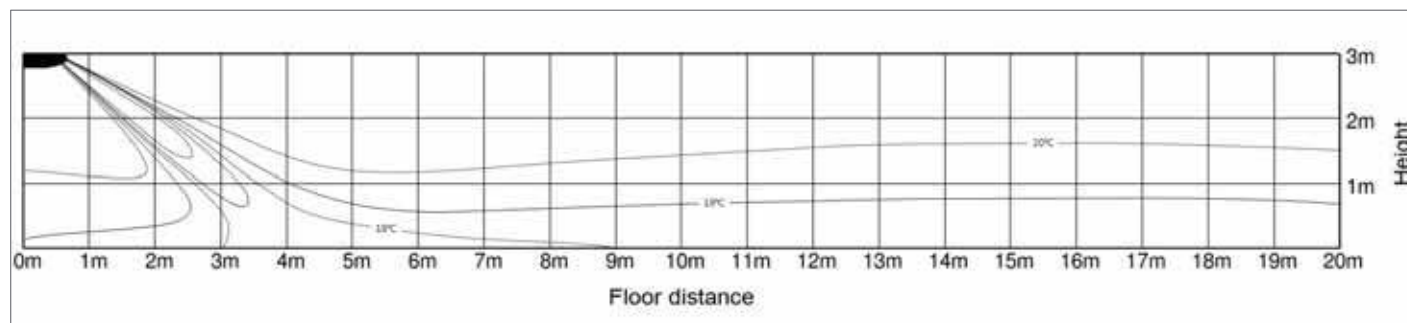
(1) Cooling air velocity distribution

Discharge angle : 32°



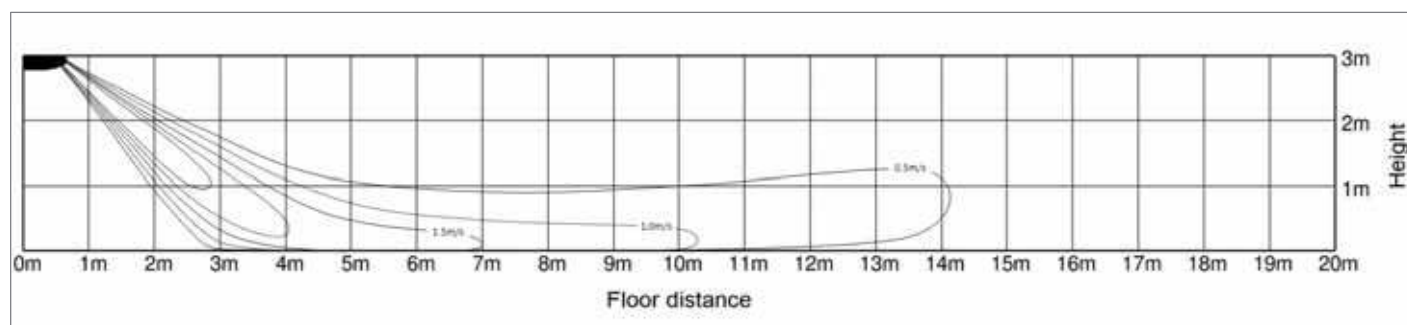
(2) Cooling temperature distribution

Discharge angle : 32°



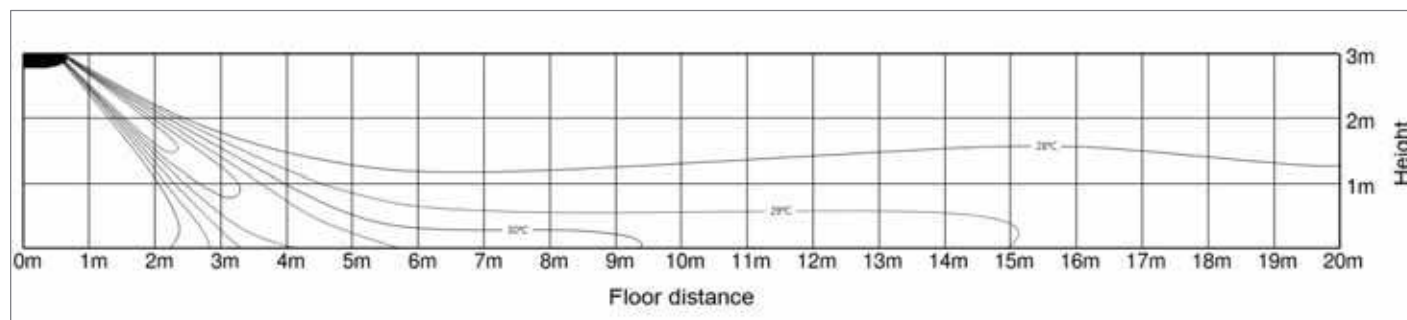
(3) Heating air velocity distribution

Discharge angle : 43°



(4) Heating temperature distribution

Discharge angle : 43°



Console

- 1 *Specifications*
- 2 *Capacity Table*
- 3 *Dimensional Drawing*
- 4 *Electrical Wiring Diagram*
- 5 *Sound Pressure Level*
- 6 *Sound Power Level*
- 7 *Temperature and air flow distribution*

1 Specifications

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 27°CDB / 19°CWB, Outdoor temperature 35°CDB/24°CWB, Refrigerant pipe length 7.5m, Level difference 0m.
 - 3) Nominal Heating : Indoor temperature 20°CDB / 15°CWB, Outdoor temperature 7°CDB / 6°CWB, 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

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 27°CDB / 19°CWB, Outdoor temperature 35°CDB/24°CWB, Refrigerant pipe length 7.5m, Level difference 0m.
 - 3) Nominal Heating : Indoor temperature 20°CDB / 15°CWB, Outdoor temperature 7°CDB / 6°CWB, 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)

Capacity Index	Outdoor Air Temp. (°C,DB)	Indoor temperature													
		20(°C,DB)		23(°C,DB)		26(°C,DB)		27(°C,DB)		28(°C,DB)		30(°C,DB)		32(°C,DB)	
		14(°C,WB)		16(°C,WB)		18(°C,WB)		19(°C,WB)		20(°C,WB)		22(°C,WB)		24(°C,WB)	
		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	1.5	2.2	1.5	2.3	1.5	2.5	1.6	2.6	1.4
	12	1.5	1.3	1.8	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.5	1.6	2.6	1.4
	14	1.5	1.3	1.8	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.5	1.6	2.6	1.4
	16	1.5	1.3	1.8	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.6	1.4
	18	1.5	1.3	1.8	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.6	1.4
	20	1.5	1.3	1.8	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.6	1.4
	21	1.5	1.3	1.8	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.6	1.4
	23	1.5	1.3	1.8	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.6	1.4
	25	1.5	1.3	1.8	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.6	1.4
	27	1.5	1.3	1.8	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.6	1.4
	29	1.5	1.3	1.8	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.6	1.4
	31	1.5	1.3	1.8	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.6	1.4
	33	1.5	1.3	1.8	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.6	1.4
	35	1.5	1.3	1.8	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.6	1.4
	37	1.5	1.3	1.8	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.6	1.4
	39	1.5	1.3	1.8	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.5	1.3
	42	1.5	1.3	1.8	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.4	1.3
028	44	1.5	1.3	1.8	1.5	2.0	1.4	2.1	1.4	2.2	1.4	2.3	1.4	2.4	1.2
	46	1.5	1.3	1.8	1.5	2.0	1.4	2.0	1.4	2.1	1.4	2.2	1.4	2.3	1.2
	48	1.5	1.3	1.8	1.5	2.0	1.4	2.0	1.3	2.1	1.4	2.1	1.3	2.2	1.1
	10	1.9	1.6	2.3	1.8	2.6	2.0	2.8	1.9	2.9	1.9	3.1	1.9	3.4	1.9
	12	1.9	1.6	2.3	1.8	2.6	2.0	2.8	1.9	2.9	1.9	3.1	1.9	3.3	1.8
	14	1.9	1.6	2.3	1.8	2.6	2.0	2.8	1.9	2.9	1.9	3.1	1.9	3.3	1.8
	16	1.9	1.6	2.3	1.8	2.6	2.0	2.8	1.9	2.9	1.9	3.1	1.9	3.3	1.8
	18	1.9	1.6	2.3	1.8	2.6	2.0	2.8	1.9	2.9	1.9	3.1	1.9	3.3	1.8
	20	1.9	1.6	2.3	1.8	2.6	2.0	2.8	1.9	2.9	1.9	3.1	1.9	3.3	1.8
	21	1.9	1.6	2.3	1.8	2.6	2.0	2.8	1.9	2.9	1.9	3.1	1.9	3.3	1.8
	23	1.9	1.6	2.3	1.8	2.6	2.0	2.8	1.9	2.9	1.9	3.1	1.9	3.3	1.8
	25	1.9	1.6	2.3	1.8	2.6	2.0	2.8	1.9	2.9	1.9	3.1	1.9	3.3	1.8
	27	1.9	1.6	2.3	1.8	2.6	2.0	2.8	1.9	2.9	1.9	3.1	1.9	3.3	1.8
	29	1.9	1.6	2.3	1.8	2.6	2.0	2.8	1.9	2.9	1.9	3.1	1.9	3.3	1.8
	31	1.9	1.6	2.3	1.8	2.6	2.0	2.8	1.9	2.9	1.9	3.1	1.9	3.3	1.8
	33	1.9	1.6	2.3	1.8	2.6	2.0	2.8	1.9	2.9	1.9	3.1	1.9	3.3	1.8
	35	1.9	1.6	2.3	1.8	2.6	2.0	2.8	1.9	2.9	1.9	3.1	1.9	3.3	1.8
	37	1.9	1.6	2.3	1.8	2.6	2.0	2.8	1.9	2.9	1.9	3.1	1.9	3.3	1.8
	39	1.9	1.6	2.3	1.8	2.6	2.0	2.8	1.9	2.9	1.9	3.0	1.8	3.2	1.7
	42	1.9	1.6	2.3	1.8	2.6	2.0	2.8	1.9	2.9	1.9	2.9	1.8	3.1	1.7
	44	1.9	1.6	2.3	1.8	2.5	1.9	2.7	1.8	2.8	1.8	2.8	1.7	3.0	1.6
	46	1.9	1.6	2.3	1.8	2.5	1.9	2.6	1.8	2.7	1.8	2.7	1.6	2.9	1.6
	48	1.9	1.6	2.2	1.8	2.4	1.9	2.5	1.7	2.6	1.7	2.7	1.6	2.8	1.5
036	10	2.5	2.1	2.9	2.2	3.4	2.3	3.6	2.4	3.7	2.4	4.0	2.4	4.3	2.3
	12	2.5	2.1	2.9	2.2	3.4	2.3	3.6	2.4	3.7	2.4	4.0	2.4	4.3	2.3
	14	2.5	2.1	2.9	2.2	3.4	2.3	3.6	2.4	3.7	2.4	4.0	2.4	4.3	2.3
	16	2.5	2.1	2.9	2.2	3.4	2.3	3.6	2.4	3.7	2.4	4.0	2.4	4.3	2.3
	18	2.5	2.1	2.9	2.2	3.4	2.3	3.6	2.4	3.7	2.4	4.0	2.4	4.3	2.3
	20	2.5	2.1	2.9	2.2	3.4	2.3	3.6	2.4	3.7	2.4	4.0	2.4	4.2	2.3
	21	2.5	2.1	2.9	2.2	3.4	2.3	3.6	2.4	3.7	2.4	4.0	2.4	4.2	2.3
	23	2.5	2.1	2.9	2.2	3.4	2.3	3.6	2.4	3.7	2.4	4.0	2.4	4.2	2.3
	25	2.5	2.1	2.9	2.2	3.4	2.3	3.6	2.4	3.7	2.4	4.0	2.4	4.2	2.3
	27	2.5	2.1	2.9	2.2	3.4	2.3	3.6	2.4	3.7	2.4	4.0	2.4	4.2	2.3
	29	2.5	2.1	2.9	2.2	3.4	2.3	3.6	2.4	3.7	2.4	4.0	2.4	4.2	2.3
	31	2.5	2.1	2.9	2.2	3.4	2.3	3.6	2.4	3.7	2.4	4.0	2.4	4.2	2.3
	33	2.5	2.1	2.9	2.2	3.4	2.3	3.6	2.4	3.7	2.4	4.0	2.4	4.2	2.3
	35	2.5	2.1	2.9	2.2	3.4	2.3	3.6	2.4	3.7	2.4	4.0	2.4	4.2	2.3
	37	2.5	2.1	2.9	2.2	3.4	2.3	3.6	2.4	3.7	2.4	3.9	2.3	4.2	2.3
	39	2.5	2.1	2.9	2.2	3.4	2.3	3.6	2.4	3.7	2.4	3.9	2.3	4.1	2.2
	42	2.5	2.1	2.9	2.2	3.4	2.3	3.6	2.4	3.7	2.4	3.8	2.3	4.0	2.1
	44	2.5	2.1	2.9	2.2	3.3	2.2	3.4	2.3	3.6	2.3	3.7	2.2	3.9	2.1
	46	2.5	2.1	2.9	2.2	3.2	2.2	3.3	2.2	3.4	2.2	3.6	2.1	3.8	2.0
	48	2.5	2.1	2.8	2.2	3.2	2.1	3.2	2.2	3.4	2.2	3.5	2.0	3.6	1.9

2 Capacity Table

Console

Cooling

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

Capacity Index	Outdoor Air Temp. (°C,DB)	Indoor temperature													
		20(°C,DB)		23(°C,DB)		26(°C,DB)		27(°C,DB)		28(°C,DB)		30(°C,DB)		32(°C,DB)	
		14(°C,WB)		16(°C,WB)		18(°C,WB)		19(°C,WB)		20(°C,WB)		22(°C,WB)		24(°C,WB)	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
045	10	3.1	2.4	3.7	2.7	4.3	2.9	4.5	3.0	4.7	3.0	5.1	3.1	5.4	2.8
	12	3.1	2.4	3.7	2.7	4.3	2.9	4.5	3.0	4.7	3.0	5.1	3.1	5.4	2.8
	14	3.1	2.4	3.7	2.7	4.3	2.9	4.5	3.0	4.7	3.0	5.0	3.0	5.4	2.8
	16	3.1	2.4	3.7	2.7	4.3	2.9	4.5	3.0	4.7	3.0	5.0	3.0	5.3	2.8
	18	3.1	2.4	3.7	2.7	4.3	2.9	4.5	3.0	4.7	3.0	5.0	3.0	5.3	2.8
	20	3.1	2.4	3.7	2.7	4.3	2.9	4.5	3.0	4.7	3.0	5.0	3.0	5.3	2.8
	21	3.1	2.4	3.7	2.7	4.3	2.9	4.5	3.0	4.7	3.0	5.0	3.0	5.3	2.8
	23	3.1	2.4	3.7	2.7	4.3	2.9	4.5	3.0	4.7	3.0	5.0	3.0	5.3	2.8
	25	3.1	2.4	3.7	2.7	4.3	2.9	4.5	3.0	4.7	3.0	5.0	3.0	5.3	2.8
	27	3.1	2.4	3.7	2.7	4.3	2.9	4.5	3.0	4.7	3.0	5.0	3.0	5.3	2.8
	29	3.1	2.4	3.7	2.7	4.3	2.9	4.5	3.0	4.7	3.0	5.0	3.0	5.3	2.8
	31	3.1	2.4	3.7	2.7	4.3	2.9	4.5	3.0	4.7	3.0	5.0	3.0	5.3	2.8
	33	3.1	2.4	3.7	2.7	4.3	2.9	4.5	3.0	4.7	3.0	5.0	3.0	5.3	2.8
	35	3.1	2.4	3.7	2.7	4.3	2.9	4.5	3.0	4.7	3.0	5.0	3.0	5.3	2.8
	37	3.1	2.4	3.7	2.7	4.3	2.9	4.5	3.0	4.7	3.0	4.9	2.9	5.2	2.7
	39	3.1	2.4	3.7	2.7	4.3	2.9	4.5	3.0	4.7	3.0	4.9	2.9	5.1	2.6
	42	3.1	2.4	3.7	2.7	4.2	2.9	4.4	3.0	4.6	3.0	4.8	2.9	5.0	2.5
056	44	3.1	2.4	3.7	2.7	4.1	2.8	4.3	2.9	4.5	2.9	4.6	2.8	4.8	2.5
	46	3.1	2.4	3.7	2.7	4.0	2.8	4.2	2.8	4.3	2.8	4.5	2.7	4.7	2.4
	48	3.1	2.3	3.6	2.6	4.0	2.7	4.0	2.7	4.3	2.7	4.3	2.6	4.5	2.3
	10	3.9	3.0	4.6	3.4	5.3	3.7	5.6	3.8	5.8	3.8	6.3	3.9	6.7	3.6
	12	3.9	3.0	4.6	3.4	5.3	3.7	5.6	3.8	5.8	3.8	6.3	3.9	6.7	3.6
	14	3.9	3.0	4.6	3.4	5.3	3.7	5.6	3.8	5.8	3.8	6.2	3.8	6.7	3.6
	16	3.9	3.0	4.6	3.4	5.3	3.7	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.5
	18	3.9	3.0	4.6	3.4	5.3	3.7	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.5
	20	3.9	3.0	4.6	3.4	5.3	3.7	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.5
	21	3.9	3.0	4.6	3.4	5.3	3.7	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.5
	23	3.9	3.0	4.6	3.4	5.3	3.7	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.5
	25	3.9	3.0	4.6	3.4	5.3	3.7	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.5
	27	3.9	3.0	4.6	3.4	5.3	3.7	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.5
	29	3.9	3.0	4.6	3.4	5.3	3.7	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.5
	31	3.9	3.0	4.6	3.4	5.3	3.7	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.5
	33	3.9	3.0	4.6	3.4	5.3	3.7	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.5
	35	3.9	3.0	4.6	3.4	5.3	3.7	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.5
	37	3.9	3.0	4.6	3.4	5.3	3.7	5.6	3.8	5.8	3.8	6.1	3.7	6.5	3.4
	39	3.9	3.0	4.6	3.4	5.3	3.7	5.6	3.8	5.8	3.8	6.1	3.7	6.4	3.3
	42	3.9	3.0	4.6	3.4	5.3	3.7	5.5	3.7	5.7	3.8	6.0	3.6	6.2	3.2
	44	3.9	3.0	4.6	3.4	5.1	3.6	5.3	3.6	5.6	3.6	5.8	3.5	6.0	3.1
	46	3.9	3.0	4.6	3.4	5.0	3.5	5.2	3.5	5.4	3.5	5.6	3.4	5.9	3.0
	48	3.9	3.0	4.5	3.3	5.0	3.5	5.0	3.4	5.3	3.5	5.4	3.3	5.7	2.9

2 Capacity Table

Console

Heating

TC : Total Capacity(kW)

Capacity Index	Outdoor Air Temp. (°C)		Indoor temperature (°C,DB)				
			16(°C,DB)	18(°C,DB)	20(°C,DB)	22(°C,DB)	24(°C,DB)
			TC	TC	TC	TC	TC
	DB	WB	kW	kW	kW	kW	kW
022	-19.8	-20.0	1.5	1.5	1.5	1.5	1.5
	-18.8	-19.0	1.5	1.5	1.5	1.5	1.5
	-16.7	-17.0	1.6	1.6	1.6	1.6	1.6
	-14.7	-15.0	1.7	1.6	1.6	1.6	1.6
	-12.6	-13.0	1.8	1.8	1.8	1.8	1.7
	-10.5	-11.0	2.0	2.0	1.9	1.9	1.9
	-9.5	-10.0	2.1	2.0	2.0	1.9	1.9
	-8.5	-9.1	2.2	2.1	2.1	2.0	2.0
	-7.0	-7.6	2.3	2.2	2.2	2.0	2.0
	-5.0	-5.6	2.4	2.3	2.3	2.2	2.2
	-3.0	-3.7	2.5	2.5	2.4	2.3	2.2
	0.0	-0.7	2.6	2.5	2.5	2.3	2.2
	3.0	2.2	2.7	2.6	2.5	2.3	2.2
	5.0	4.1	2.8	2.7	2.5	2.3	2.2
	7.0	6.0	2.8	2.7	2.5	2.3	2.2
	9.0	7.9	3.0	2.7	2.5	2.3	2.2
	11.0	9.8	3.0	2.7	2.5	2.3	2.2
	13.0	11.8	3.0	2.7	2.5	2.3	2.2
	15.0	13.7	3.0	2.7	2.5	2.3	2.2
028	-19.8	-20.0	1.9	1.9	1.9	1.9	1.9
	-18.8	-19.0	1.9	1.9	1.9	1.9	1.9
	-16.7	-17.0	2.0	2.0	2.0	2.0	1.9
	-14.7	-15.0	2.1	2.1	2.0	2.0	1.9
	-12.6	-13.0	2.2	2.2	2.2	2.1	2.1
	-10.5	-11.0	2.3	2.3	2.3	2.3	2.2
	-9.5	-10.0	2.3	2.3	2.3	2.3	2.2
	-8.5	-9.1	2.4	2.4	2.4	2.4	2.3
	-7.0	-7.6	2.5	2.4	2.4	2.4	2.3
	-5.0	-5.6	2.6	2.6	2.5	2.5	2.4
	-3.0	-3.7	2.8	2.7	2.7	2.6	2.5
	0.0	-0.7	2.9	2.8	2.8	2.7	2.6
	3.0	2.2	3.0	3.0	2.9	2.8	2.7
	5.0	4.1	3.2	3.1	3.1	2.9	2.7
	7.0	6.0	3.3	3.2	3.2	3.0	2.7
	9.0	7.9	3.4	3.3	3.2	3.0	2.7
	11.0	9.8	3.5	3.3	3.2	3.0	2.7
	13.0	11.8	3.6	3.4	3.2	3.0	2.7
	15.0	13.7	3.7	3.4	3.2	3.0	2.7
036	-19.8	-20.0	2.4	2.4	2.3	2.3	2.3
	-18.8	-19.0	2.5	2.4	2.3	2.3	2.3
	-16.7	-17.0	2.6	2.5	2.4	2.4	2.3
	-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

2 Capacity Table

Console

Heating

TC : Total Capacity(kW)

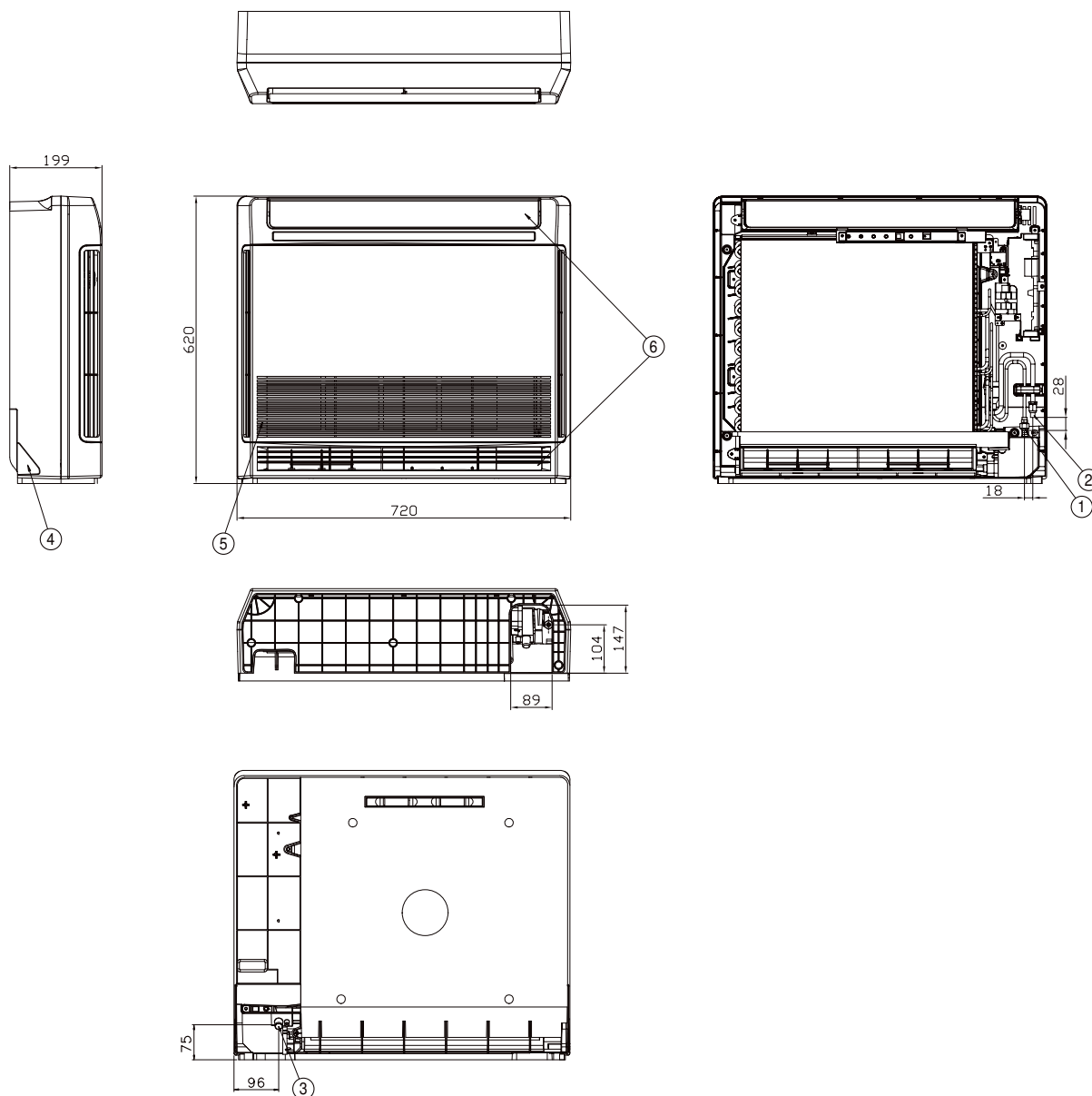
Capacity Index	Outdoor Air Temp. (°C)		Indoor temperature (°C,DB)				
			16(°C,DB)	18(°C,DB)	20(°C,DB)	22(°C,DB)	24(°C,DB)
			TC	TC	TC	TC	TC
	DB	WB	kW	kW	kW	kW	kW
045	-19.8	-20.0	3.1	3.0	3.0	2.9	2.9
	-18.8	-19.0	3.1	3.1	3.1	3.0	3.0
	-16.7	-17.0	3.2	3.2	3.1	3.0	3.0
	-14.7	-15.0	3.3	3.3	3.2	3.1	3.0
	-12.6	-13.0	3.5	3.4	3.3	3.3	3.2
	-10.5	-11.0	3.6	3.6	3.5	3.5	3.4
	-9.5	-10.0	3.7	3.7	3.6	3.5	3.5
	-8.5	-9.1	3.8	3.7	3.7	3.6	3.5
	-7.0	-7.6	3.9	3.8	3.8	3.7	3.6
	-5.0	-5.6	4.1	4.1	4.0	3.9	3.7
	-3.0	-3.7	4.3	4.2	4.2	4.1	3.9
	0.0	-0.7	4.5	4.4	4.4	4.2	4.0
	3.0	2.2	4.7	4.7	4.6	4.4	4.2
	5.0	4.1	4.9	4.8	4.8	4.5	4.2
	7.0	6.0	5.2	5.1	5.0	4.6	4.2
	9.0	7.9	5.3	5.2	5.0	4.6	4.2
	11.0	9.8	5.5	5.2	5.0	4.6	4.2
	13.0	11.8	5.6	5.3	5.0	4.6	4.2
	15.0	13.7	5.8	5.4	5.0	4.6	4.2
056	-19.8	-20.0	3.9	3.8	3.8	3.7	3.7
	-18.8	-19.0	3.9	3.9	3.8	3.7	3.7
	-16.7	-17.0	4.0	4.0	3.9	3.8	3.8
	-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

3 Dimensional Drawing

Console

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

[Unit : mm]



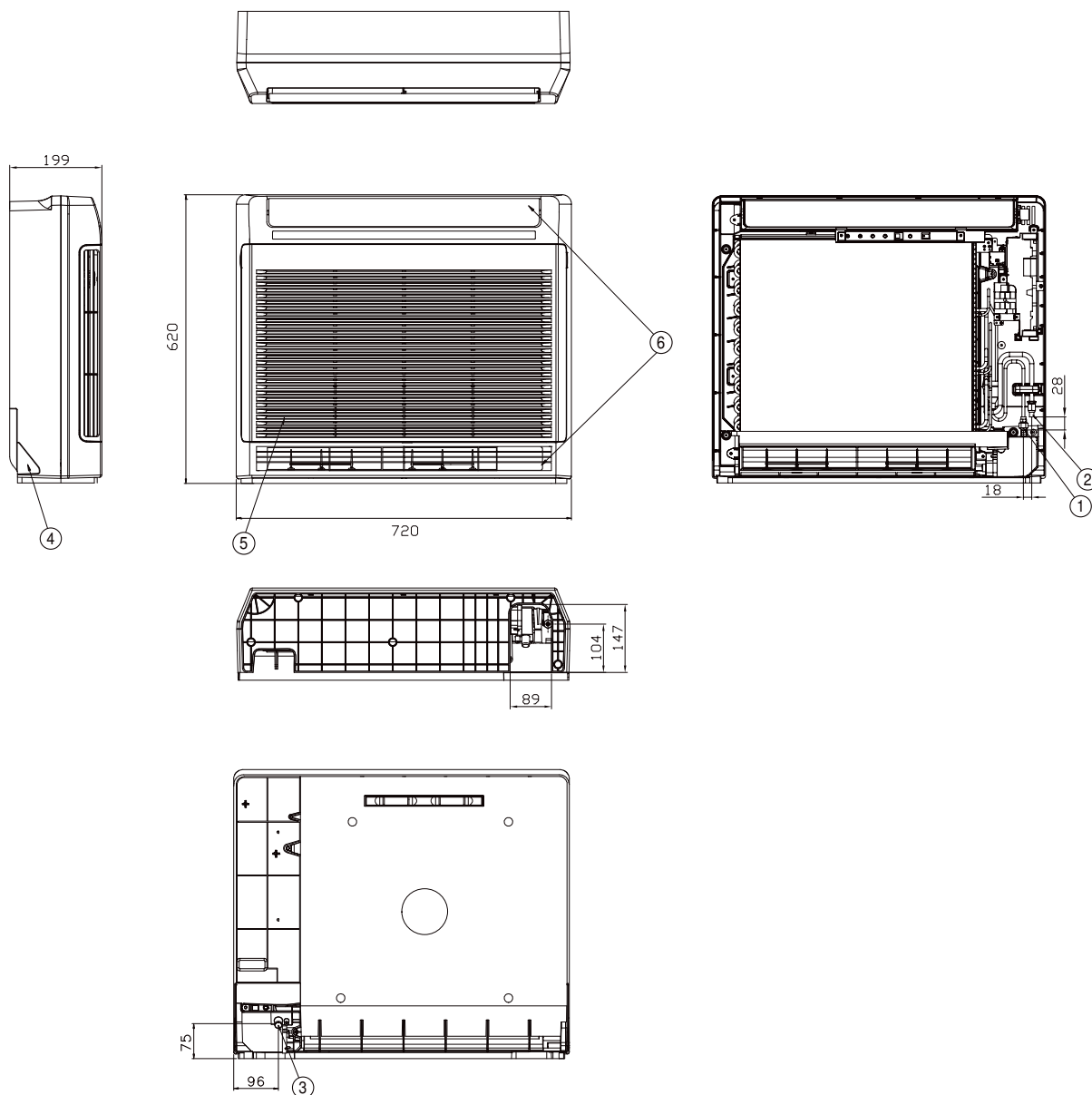
No.	Name	Description			
		2.2kW	2.8kW	3.6kW	4.5kW
①	Liquid pipe connection	Ø6.35 Flare			
②	Gas pipe connection	Ø12.70 Flare			
③	Drain pipe connection	ID18 Hose			
④	Conduit for power supply & communication wiring	-			
⑤	Air inlet grille	-			
⑥	Air outlet louver	-			

3 Dimensional Drawing

Console

AM056FNJDEH/EU

[Unit : mm]

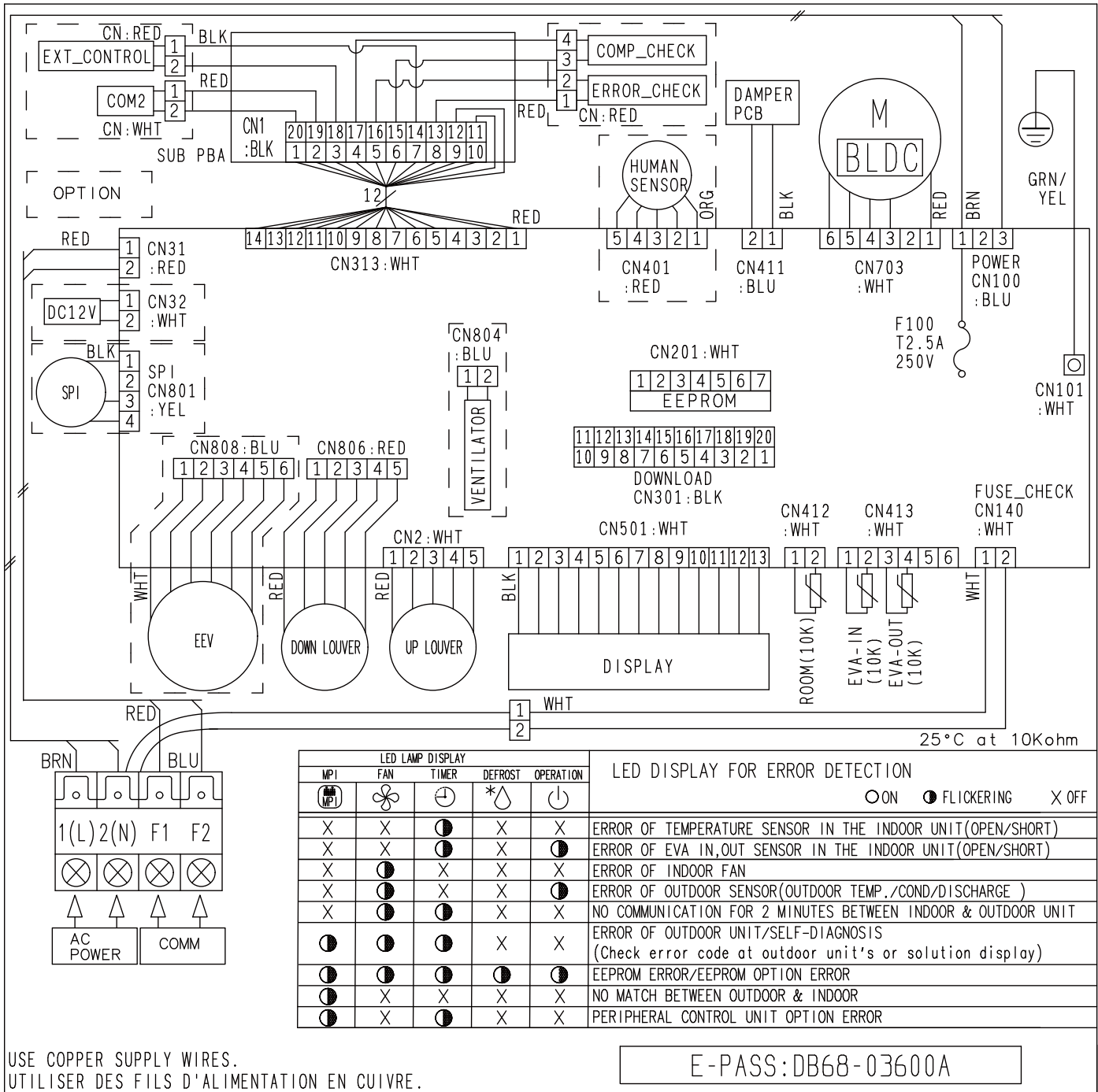


No.	Name	Description
		5.6kW
①	Liquid pipe connection	Ø6.35 Flare
②	Gas pipe connection	Ø12.70 Flare
③	Drain pipe connection	ID18 Hose
④	Conduit for power supply & communication wiring	-
⑤	Air inlet grille	-
⑥	Air outlet louver	-

4 Electrical Wiring Diagram

Console

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

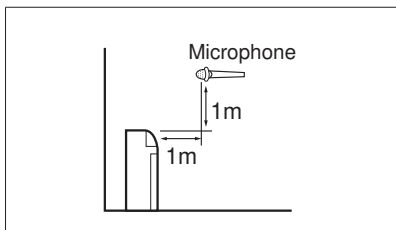


NOTE

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

Console



Unit: dB(A)

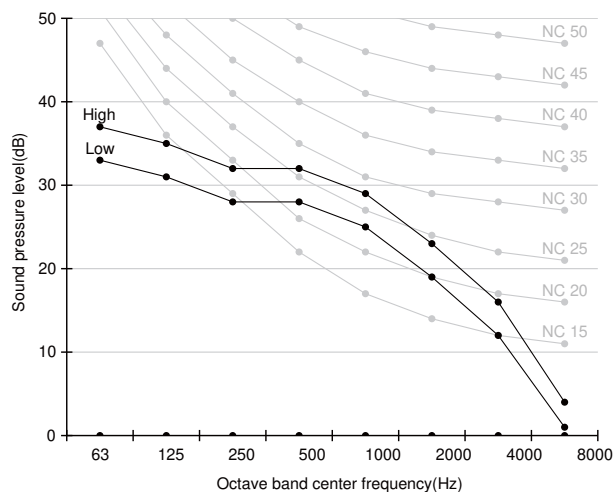
Model	High	Low
AM022KNJDEH/EU	34	30
AM045KNJDEH/EU	42	36

Note

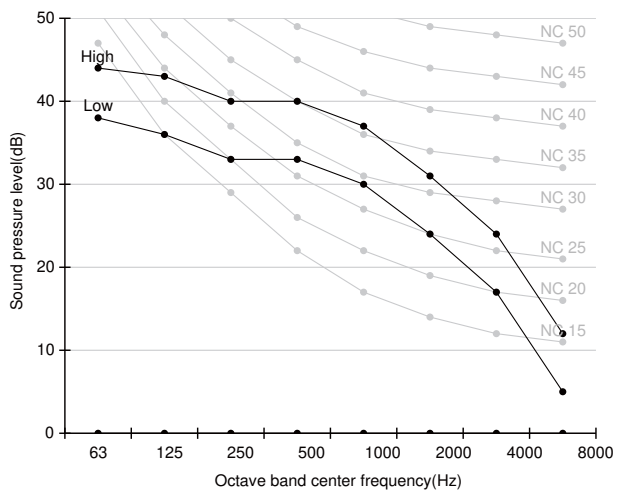
Specifications may be subject to change without prior notice.
Sound pressure level is obtained in an anechoic room.
Sound pressure level is a relative value, depending on the distance and acoustic environment.
Sound pressure level may differ depending on operation condition.
dBA = A-weighted sound pressure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

NC curve

1) AM022KNJDEH/EU



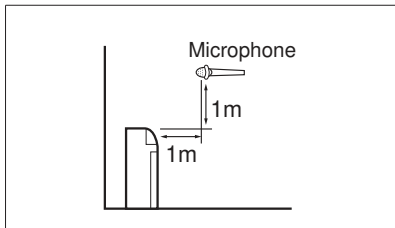
2) AM045KNJDEH/EU



5 Sound Pressure Level

Console

Unit: dB(A)



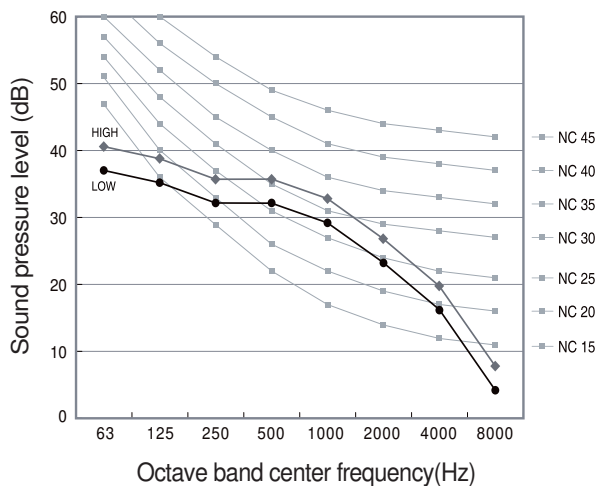
Model	High	Low
AM028FNJDEH/EU	38	34
AM036FNJDEH/EU	39	34
AM056FNJDEH/EU	43	37

Note

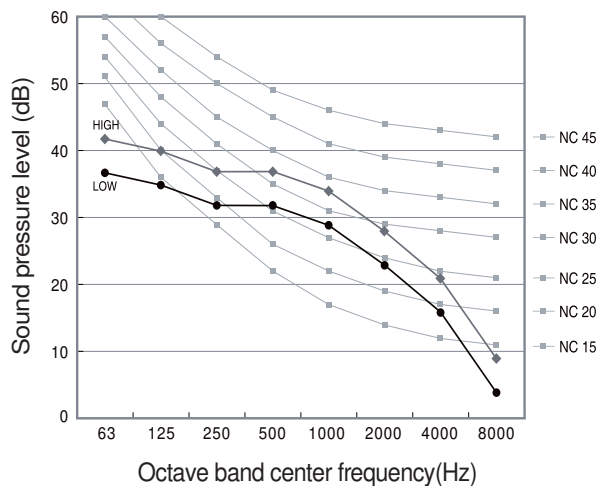
Specifications may be subject to change without prior notice.
 Sound pressure level is obtained in an anechoic room.
 Sound pressure level is a relative value, depending on the distance and acoustic environment.
 Sound pressure level may differ depending on operation condition.
 dBA = A-weighted sound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

NC curve

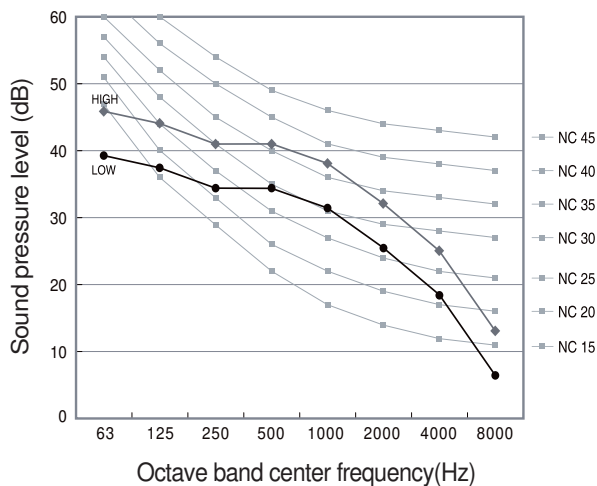
1) AM028FNJDEH/EU



2) AM036FNJDEH/EU



3) AM056FNJDEH/EU



6 Sound Power Level

Console

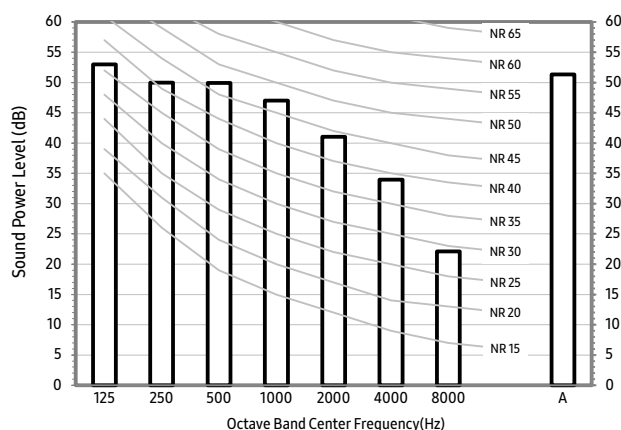
Note

- 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

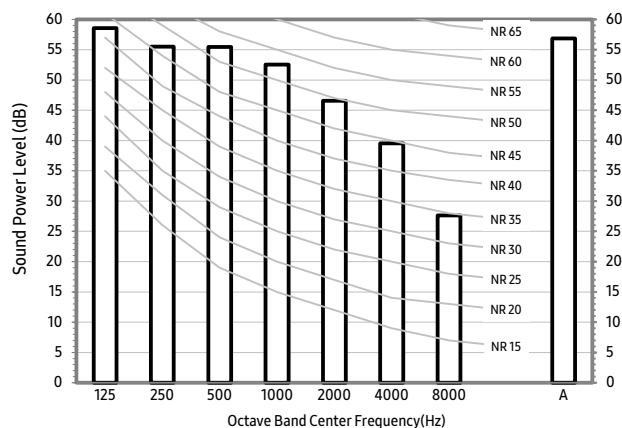
Unit: dB(A)

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

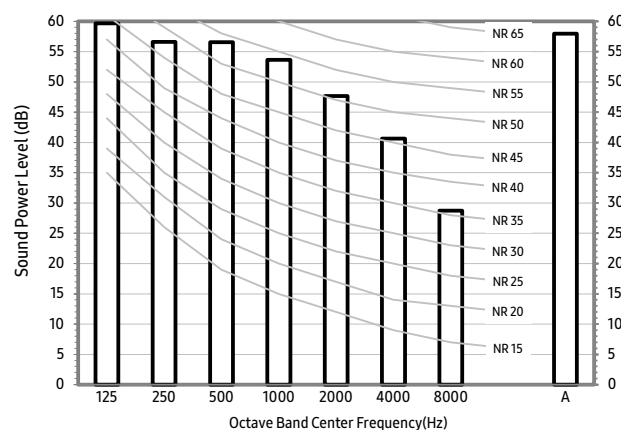
1) AM022KNJDEH/EU



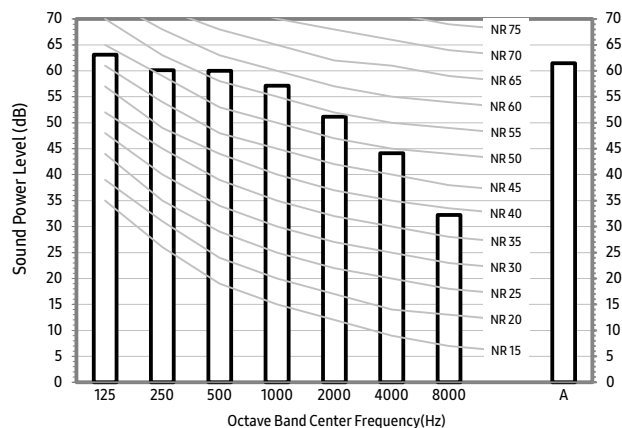
2) AM028FNJDEH/EU



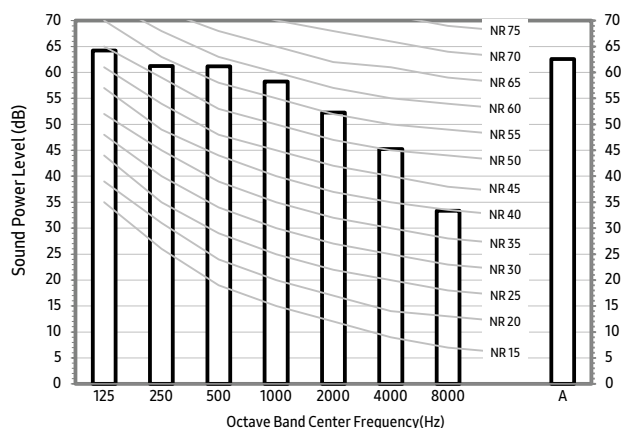
3) AM036FNJDEH/EU



4) AM045KNJDEH/EU



5) AM056FNJDEH/EU



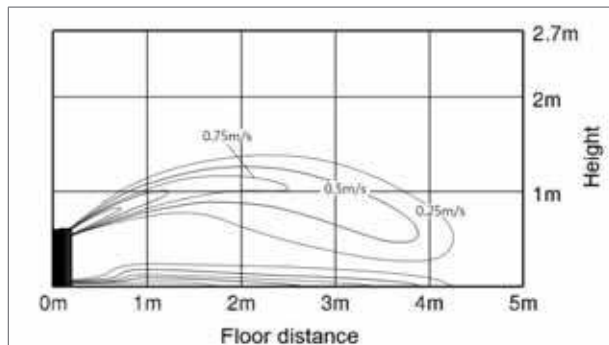
7 Temperature and air flow distribution

Console

AM022KNJDEH/EU

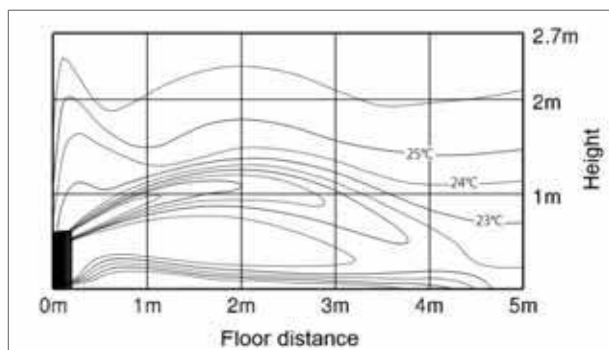
(1) Cooling air velocity distribution

Discharge angle (Default) : 40°



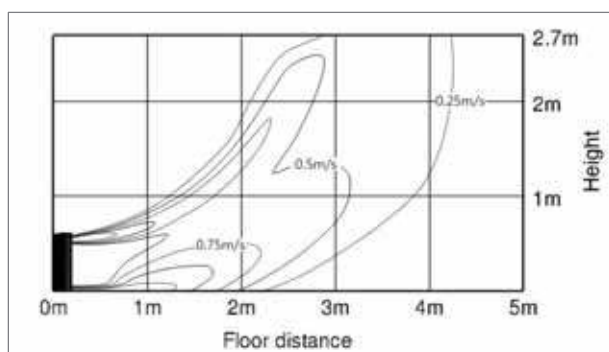
(2) Cooling temperature distribution

Discharge angle (Default) : 40°



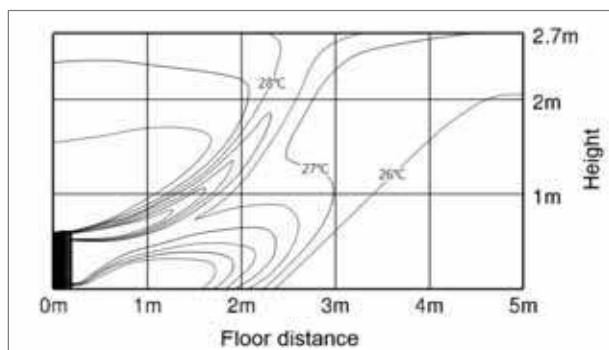
(3) Heating air velocity distribution

Discharge angle (Default) : 4°



(4) Heating temperature distribution

Discharge angle (Default) : 4°



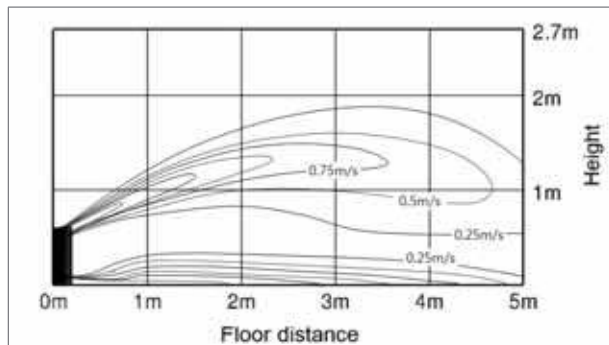
7 Temperature and air flow distribution

Console

AM028FNJDEH/EU

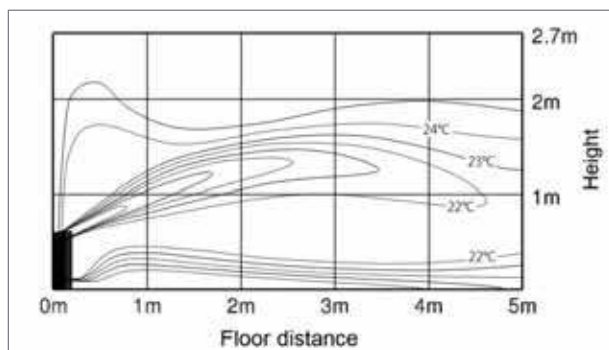
(1) Cooling air velocity distribution

Discharge angle (Default) : 40°



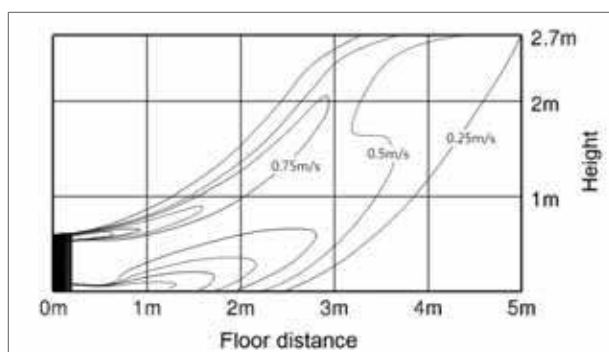
(2) Cooling temperature distribution

Discharge angle (Default) : 40°



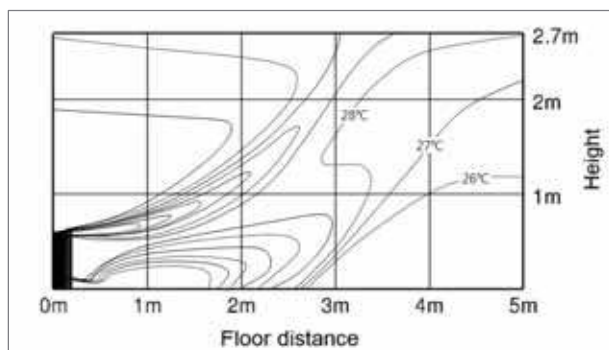
(3) Heating air velocity distribution

Discharge angle (Default) : 4°



(4) Heating temperature distribution

Discharge angle (Default) : 4°



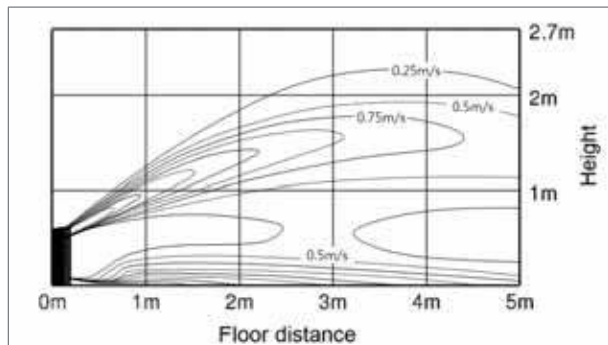
7 Temperature and air flow distribution

Console

AM036FNJDEH/EU

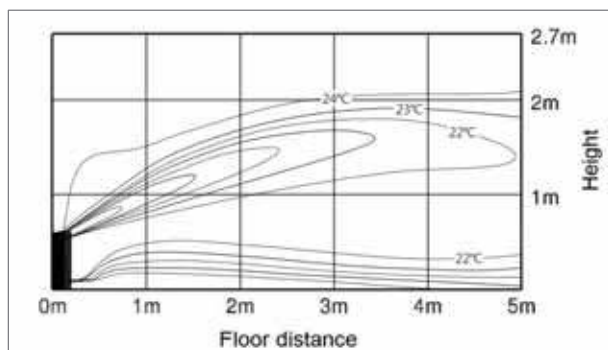
(1) Cooling air velocity distribution

Discharge angle (Default) : 40°



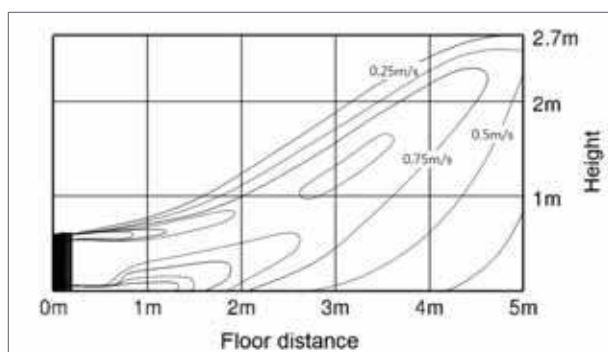
(2) Cooling temperature distribution

Discharge angle (Default) : 40°



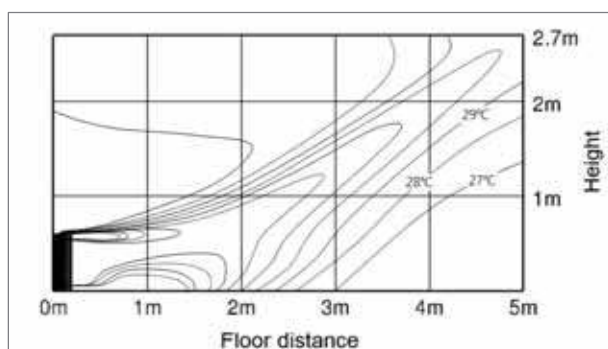
(3) Heating air velocity distribution

Discharge angle (Default) : 4°



(4) Heating temperature distribution

Discharge angle (Default) : 4°



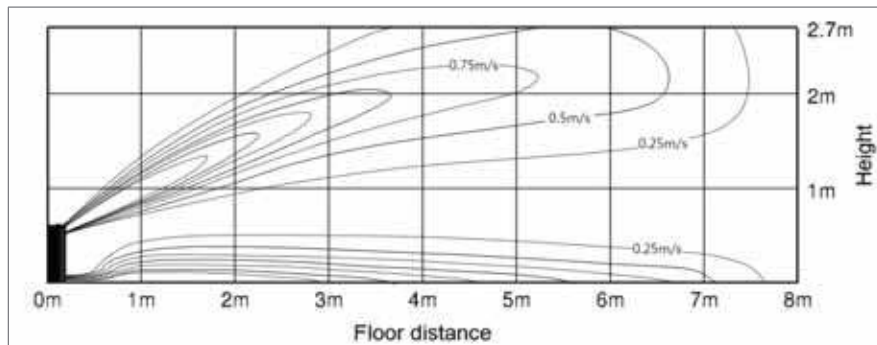
7 Temperature and air flow distribution

Console

AM045KNJDEH/EU

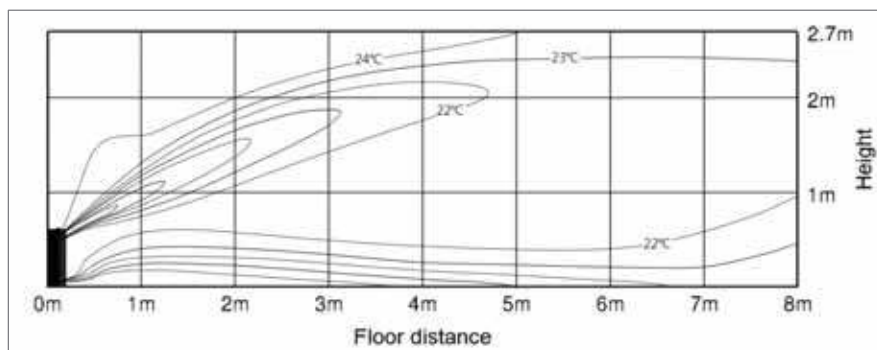
(1) Cooling air velocity distribution

Discharge angle (Default) : 40°



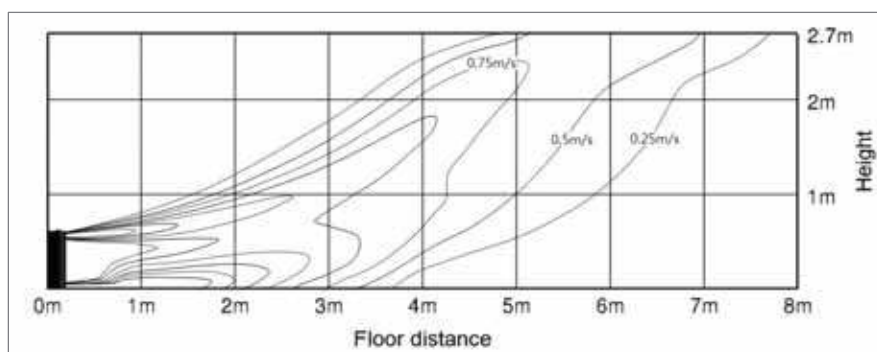
(2) Cooling temperature distribution

Discharge angle (Default) : 40°



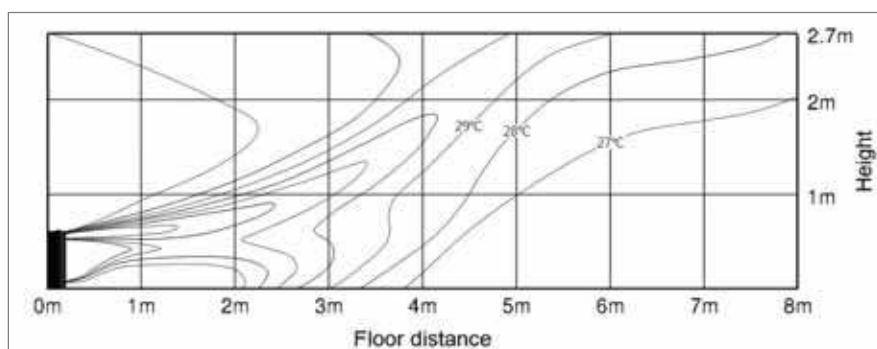
(3) Heating air velocity distribution

Discharge angle (Default) : 4°



(4) Heating temperature distribution

Discharge angle (Default) : 4°



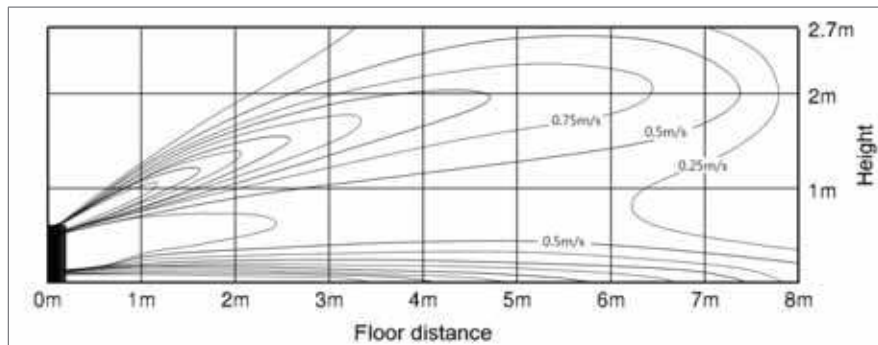
7 Temperature and air flow distribution

Console

AM056FNJDEH/EU

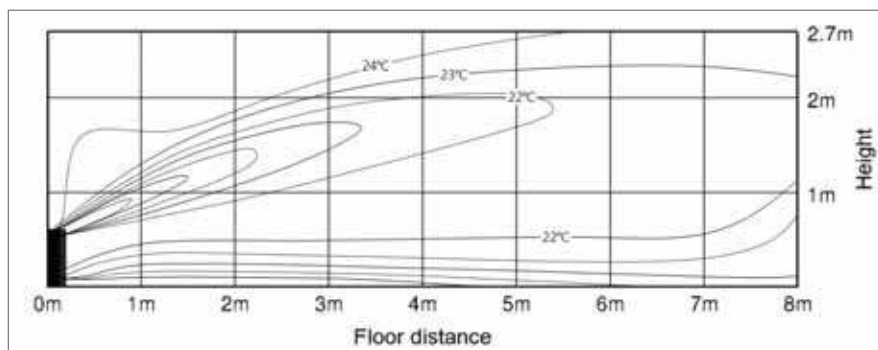
(1) Cooling air velocity distribution

Discharge angle (Default) : 40°



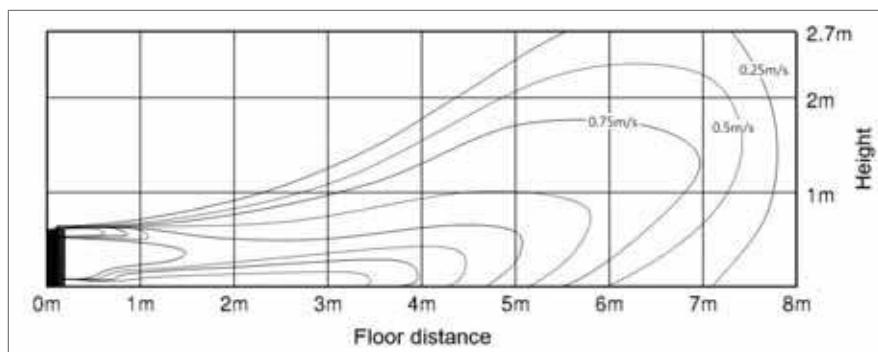
(2) Cooling temperature distribution

Discharge angle (Default) : 40°



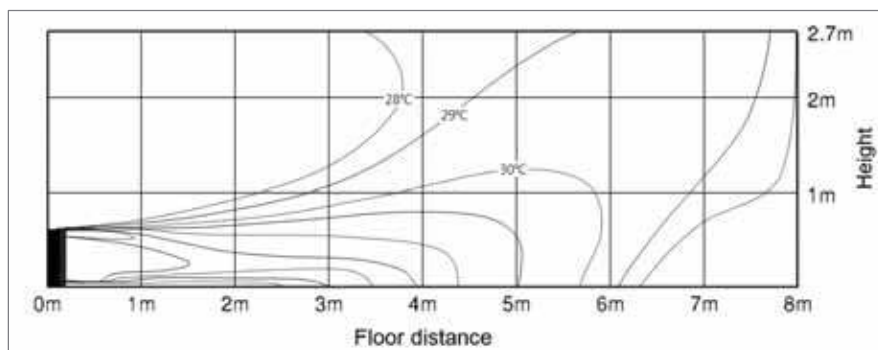
(3) Heating air velocity distribution

Discharge angle (Default) : 4°



(4) Heating temperature distribution

Discharge angle (Default) : 4°



Floor Standing

- 1 *Specifications*
- 2 *Capacity Table*
- 3 *Dimensional Drawing*
- 4 *Electrical Wiring Diagram*
- 5 *Sound Pressure Level*
- 6 *Temperature and air flow distribution*

1 Specifications

Floor Standing

1) Technical specifications

Model				AM036FNFDEH***	AM056FNFDEH***	AM071FNFDEH***
Power Supply			Ø, #, V, Hz	1, 2, 220~240, 50	1, 2, 220~240, 50	1, 2, 220~240, 50
Mode *1)			-	HP/HR	HP/HR	HP/HR
Performance	Capacity (Nominal)	Cooling *2)	kW	3.6	5.6	7.1
			Btu/h	12,300	19,100	24,200
		Heating *3)	kW	4.0	6.3	8.0
			Btu/h	13,600	21,500	27,300
Power	Power Input (Nominal)	Cooling *2)	W	50	110	110
		Heating *3)		50	110	110
	Current Input (Nominal)	Cooling *2)	A	0.24	0.53	0.53
		Heating *3)		0.24	0.53	0.53
Fan	Motor	Type	-	Sirocco Fan	Sirocco Fan	Sirocco Fan
		Output	W	-	-	-
		Number of unit	EA	-	-	-
	Air Flow Rate	H/M/L (UL)	CMM	10.00/8.50/6.00	15.50/14.00/11.00	15.50/14.00/11.00
			l/s	166.67/141.67/100.00	258.33/233.33/183.33	258.33/233.33/183.33
	External Pressure	Min / Std / Max	mmAq	-	-	-
			Pa	-	-	-
			WG	-	-	-
Option Code			-	01A054-105000-202424-330010	01A054-105000-203838-330010	01A054-105000-204747-330010
Piping Connections	Liquid Pipe		Ø, mm	6.35	6.35	9.52
			Ø, inch	1/4	1/4	3/8
	Gas Pipe		Ø, mm	12.70	12.70	15.88
			Ø, inch	1/2	1/2	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)

2 Capacity table

Floor Standing

1) Cooling

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

Capacity Index	Outdoor Air Temp. (°C,DB)	Indoor temperature													
		20(°C,DB)		23(°C,DB)		26(°C,DB)		27(°C,DB)		28(°C,DB)		30(°C,DB)		32(°C,DB)	
		14(°C,WB)		16(°C,WB)		18(°C,WB)		19(°C,WB)		20(°C,WB)		22(°C,WB)		24(°C,WB)	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
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	42	2.5	2.0	2.9	2.3	3.4	2.5	3.6	2.6	3.7	2.6	3.8	2.5	4.0	2.2
	44	2.5	2.0	2.9	2.3	3.3	2.4	3.4	2.5	3.6	2.5	3.7	2.4	3.9	2.2
	46	2.5	2.0	2.9	2.3	3.2	2.4	3.3	2.4	3.4	2.4	3.6	2.3	3.8	2.1
	48	2.5	2.0	2.8	2.2	3.2	2.3	3.2	2.3	3.4	2.4	3.5	2.2	3.6	2.0
	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
071	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
	42	3.9	3.3	4.6	3.8	5.3	4.0	5.5	4.1	5.7	4.2	6.0	4.0	6.2	3.7
	44	3.9	3.3	4.6	3.8	5.1	3.9	5.3	4.0	5.6	4.0	5.8	3.9	6.0	3.6
	46	3.9	3.3	4.6	3.7	5.0	3.8	5.2	3.9	5.4	3.9	5.6	3.7	5.9	3.5
	48	3.9	3.2	4.5	3.7	5.0	3.7	5.0	3.8	5.3	3.8	5.4	3.6	5.7	3.3
	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
	42	4.9	4.3	5.8	5.0	6.7	5.2	7.0	5.3	7.2	5.4	7.6	5.3	7.9	5.0
	44	4.9	4.3	5.8	5.0	6.5	5.0	6.8	5.2	7.0	5.3	7.3	5.1	7.6	4.8
	46	4.9	4.3	5.7	5.0	6.4	4.9	6.6	5.0	6.8	5.1	7.0	4.9	7.4	4.7
	48	4.8	4.2	5.7	4.9	6.3	4.9	6.4	4.9	6.7	5.0	6.8	4.8	7.2	4.5

2 Capacity table

Floor Standing

2) Heating

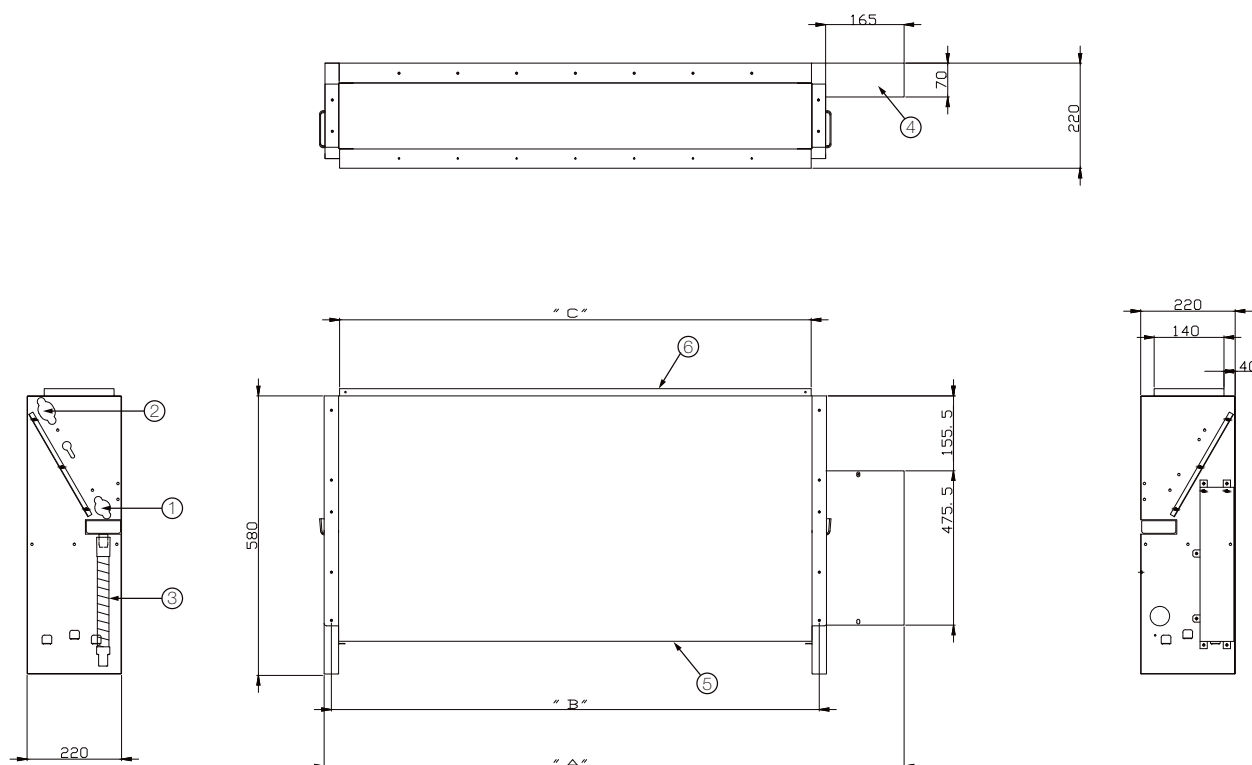
TC : Total Capacity(kW)

Capacity Index	Outdoor Air Temp. (°C)		Indoor temperature (°C,DB)				
			16(°C,DB)	18(°C,DB)	20(°C,DB)	22(°C,DB)	24(°C,DB)
			TC	TC	TC	TC	TC
	DB	WB	kW	kW	kW	kW	kW
036	-19.8	-20.0	2.4	2.4	2.3	2.3	2.3
	-18.8	-19.0	2.5	2.4	2.3	2.3	2.3
	-16.7	-17.0	2.6	2.5	2.4	2.4	2.3
	-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
056	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
	-19.8	-20.0	3.9	3.8	3.8	3.7	3.7
	-18.8	-19.0	3.9	3.9	3.8	3.7	3.7
	-16.7	-17.0	4.0	4.0	3.9	3.8	3.8
	-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
071	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
	-19.8	-20.0	4.9	4.9	4.8	4.7	4.7
	-18.8	-19.0	5.0	4.9	4.8	4.7	4.7
	-16.7	-17.0	5.1	5.0	4.9	4.8	4.8
	-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



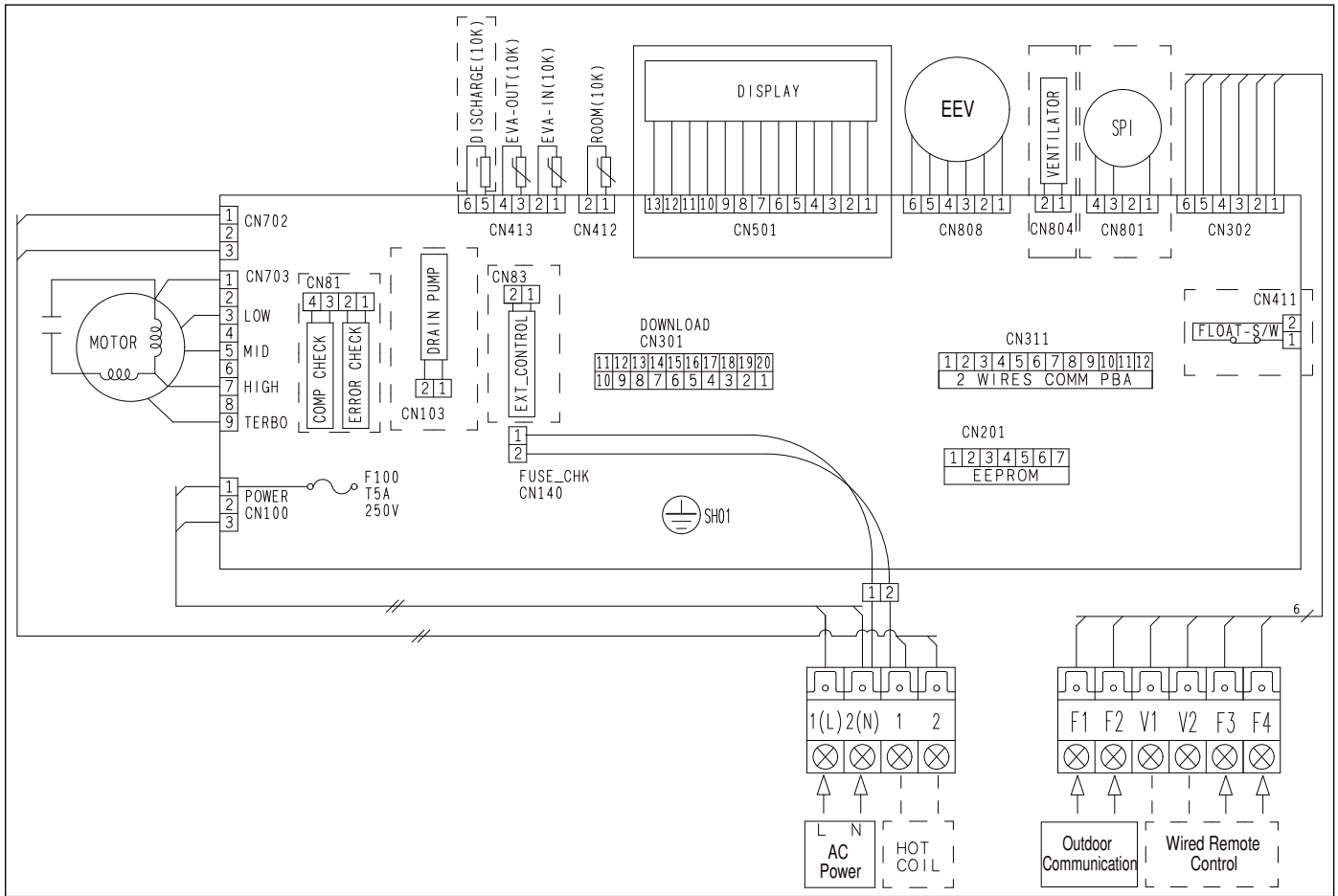
Model	A	B	C
AM036FNFDEH***	945	730	700
AM056/071FNFDEH***	1,225	1,010	980

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

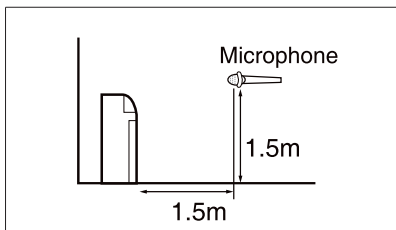


NOTE

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)

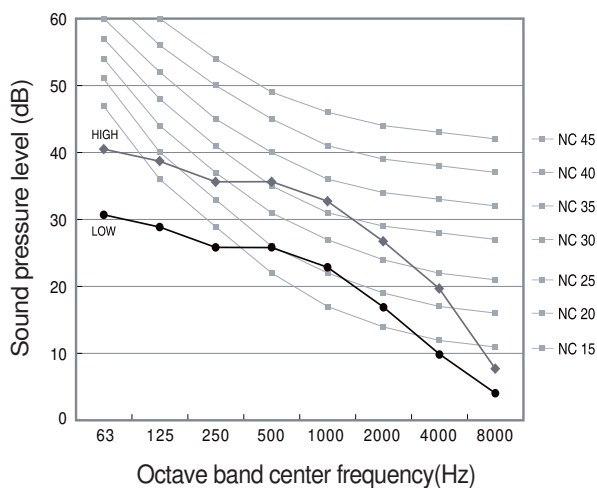
Model	High	Low
AM036FNFDEH/EU	37	27
AM056FNFDEH/EU	40	32
AM071FNFDEH/EU	40	32

Note

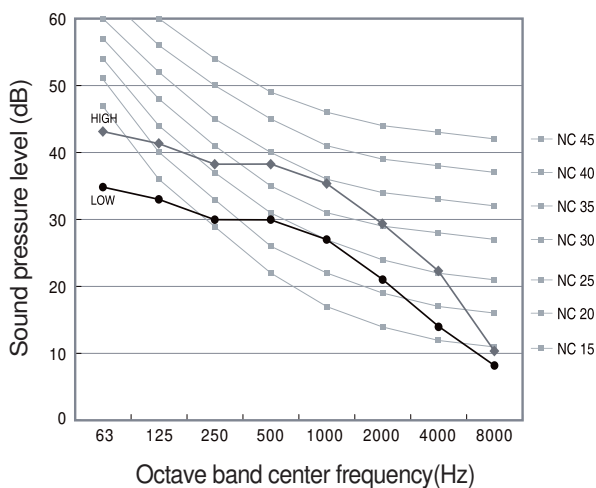
Specifications may be subject to change without prior notice.
 Sound pressure level is obtained in an anechoic room.
 Sound pressure level is a relative value, depending on the distance and acoustic environment.
 Sound pressure level may differ depending on operation condition.
 dBA = A-weighted sound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

NC curve

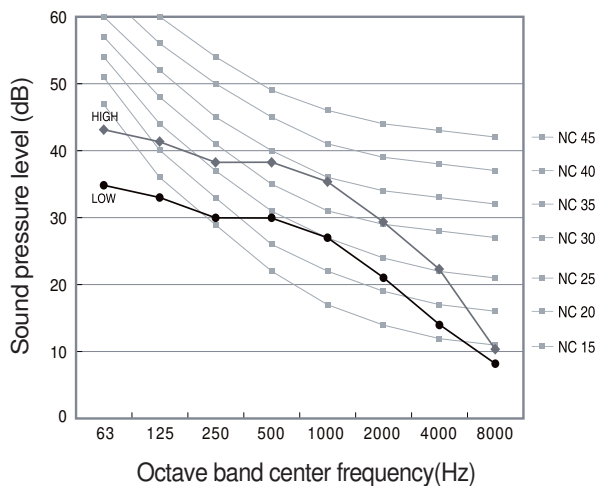
1) AM036FNFDEH/EU



2) AM056FNFDEH/EU



2) AM071FNFDEH/EU



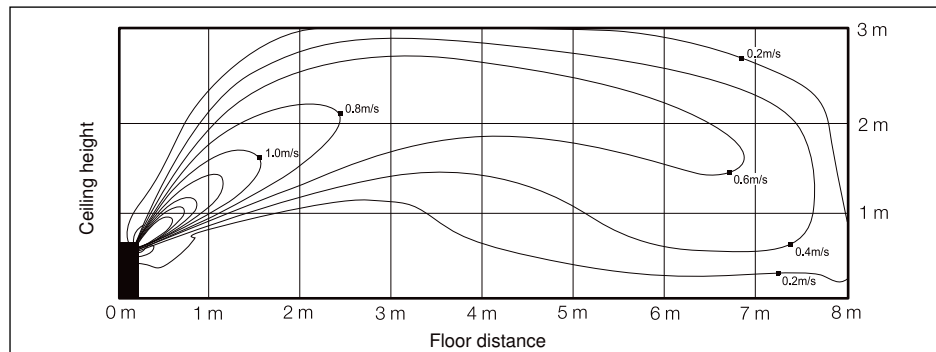
6 Temperature and air flow distribution

Floor Standing

AM036FNFDEH/EU

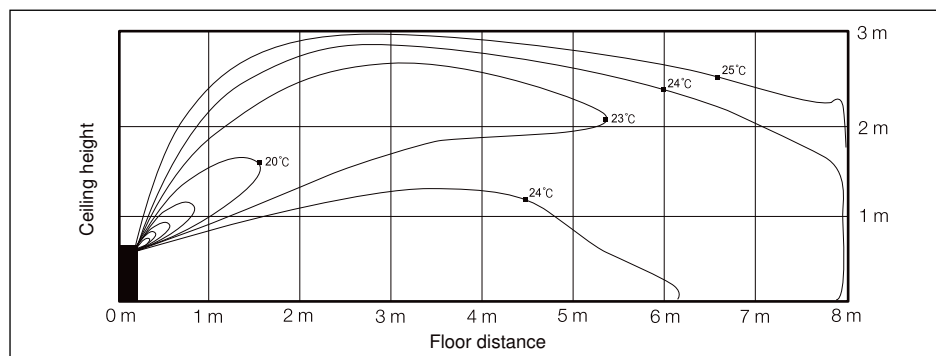
(1) Cooling air velocity distribution

Discharge angle : 36°



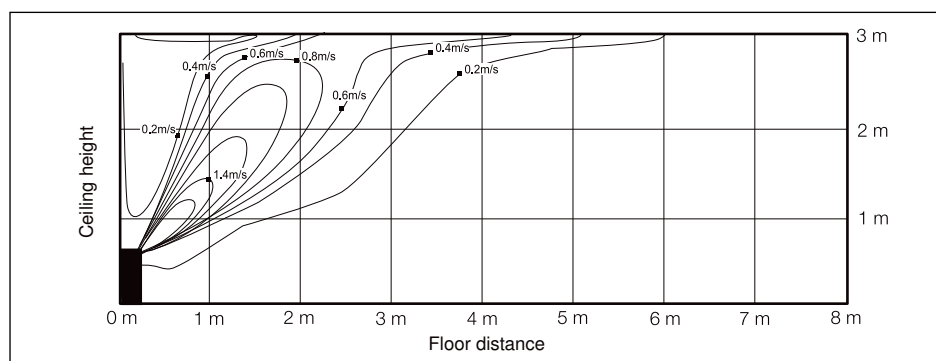
(2) Cooling temperature distribution

Discharge angle : 36°



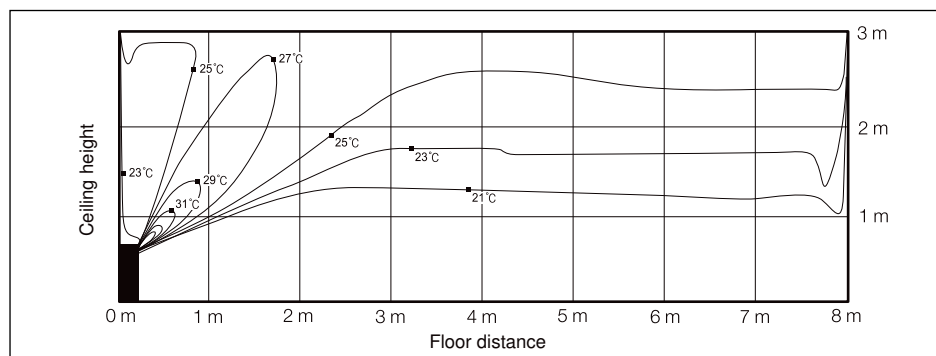
(3) Heating air velocity distribution

Discharge angle : 54°



(4) Heating temperature distribution

Discharge angle : 54°



PAC

- 1 *Specifications*
- 2 *Capacity Table*
- 3 *Dimensional Drawing*
- 4 *Electrical Wiring Diagram*
- 5 *Sound Pressure Level*

1 Specifications

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 27°CDB / 19°CWB, Outdoor temperature 35°CDB/24°CWB, Refrigerant pipe length 7.5m, Level difference 0m.
 - 3) Nominal Heating : Indoor temperature 20°CDB / 15°CWB, Outdoor temperature 7°CDB / 6°CWB, 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)

2 Capacity Table

PAC

Cooling

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

Capacity Index	Outdoor Air Temp. (°C, DB)	Indoor temperature													
		20(°C, DB)		23(°C, DB)		26(°C, DB)		27(°C, DB)		28(°C, DB)		30(°C, DB)		32(°C, DB)	
		14(°C, WB)		16(°C, WB)		18(°C, WB)		19(°C, WB)		20(°C, WB)		22(°C, WB)		24(°C, WB)	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
140	10	9.7	8.6	11.4	9.7	13.1	10.5	14.0	10.8	14.6	10.9	15.7	11.0	16.8	10.9
	12	9.7	8.6	11.4	9.7	13.1	10.5	14.0	10.8	14.5	10.8	15.6	10.9	16.7	10.8
	14	9.7	8.6	11.4	9.7	13.1	10.5	14.0	10.8	14.5	10.8	15.6	10.9	16.7	10.8
	16	9.7	8.6	11.4	9.7	13.1	10.5	14.0	10.8	14.5	10.8	15.6	10.9	16.6	10.7
	18	9.7	8.6	11.4	9.7	13.1	10.5	14.0	10.8	14.5	10.8	15.5	10.8	16.6	10.7
	20	9.7	8.6	11.4	9.7	13.1	10.5	14.0	10.8	14.5	10.8	15.5	10.8	16.5	10.6
	21	9.7	8.6	11.4	9.7	13.1	10.5	14.0	10.8	14.5	10.8	15.5	10.8	16.5	10.6
	23	9.7	8.6	11.4	9.7	13.1	10.5	14.0	10.8	14.5	10.8	15.5	10.8	16.5	10.6
	25	9.7	8.6	11.4	9.7	13.1	10.5	14.0	10.8	14.5	10.8	15.5	10.8	16.5	10.6
	27	9.7	8.6	11.4	9.7	13.1	10.5	14.0	10.8	14.5	10.8	15.5	10.8	16.5	10.6
	29	9.7	8.6	11.4	9.7	13.1	10.5	14.0	10.8	14.5	10.8	15.5	10.8	16.5	10.6
	31	9.7	8.6	11.4	9.7	13.1	10.5	14.0	10.8	14.5	10.8	15.5	10.8	16.5	10.6
	33	9.7	8.6	11.4	9.7	13.1	10.5	14.0	10.8	14.5	10.8	15.5	10.8	16.5	10.6
	35	9.7	8.6	11.4	9.7	13.1	10.5	14.0	10.8	14.5	10.8	15.5	10.8	16.5	10.6
	37	9.7	8.6	11.4	9.7	13.1	10.5	14.0	10.8	14.5	10.8	15.4	10.7	16.3	10.5
	39	9.7	8.6	11.4	9.7	13.1	10.5	14.0	10.8	14.4	10.7	15.1	10.5	15.9	10.3
	42	9.7	8.6	11.4	9.7	13.0	10.4	13.8	10.7	14.2	10.6	14.8	10.3	15.5	10.0
	44	9.7	8.6	11.4	9.7	12.7	10.1	13.4	10.3	13.8	10.3	14.2	9.9	15.0	9.7
	46	9.7	8.6	11.3	9.6	12.4	10.0	12.9	10.0	13.4	10.0	13.8	9.6	14.6	9.4
	48	9.6	8.5	11.1	9.5	12.2	9.8	12.6	9.7	13.1	9.8	13.4	9.3	14.1	9.1
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	19.2	17.1	22.7	19.1	26.1	20.7	27.5	21.3	29.2	22.2	31.2	23.0	32.0	21.8
	44	19.2	17.1	22.7	19.1	25.4	20.2	26.6	20.6	28.3	21.6	30.0	22.1	30.9	21.1
	46	19.2	17.1	22.5	18.9	25.0	19.9	25.8	20.0	27.5	21.0	29.0	21.4	30.0	20.5
	48	19.0	16.9	22.2	18.7	24.6	19.5	25.1	19.4	26.9	20.5	28.2	20.8	29.0	19.8

2 Capacity Table

PAC

Heating

TC : Total Capacity(kW)

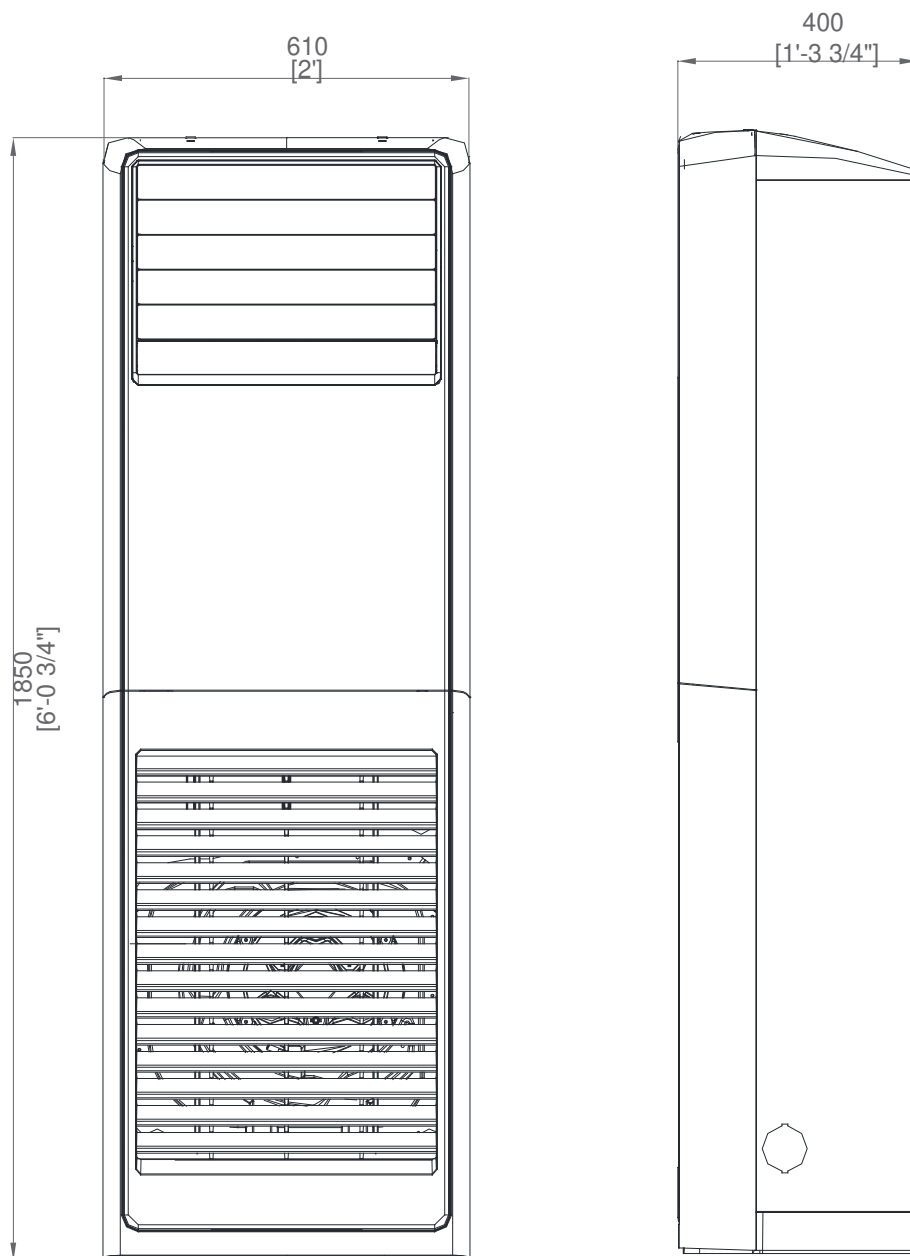
Capacity Index	Outdoor Air Temp. (°C)		Indoor temperature (°C,DB)				
			16(°C,DB)	18(°C,DB)	20(°C,DB)	22(°C,DB)	24(°C,DB)
			TC	TC	TC	TC	TC
	DB	WB	kW	kW	kW	kW	kW
140	-19.8	-20.0	9.5	9.5	9.4	9.4	9.3
	-18.8	-19.0	9.7	9.7	9.5	9.5	9.3
	-16.7	-17.0	10.2	10.0	9.7	9.6	9.4
	-14.7	-15.0	10.8	10.5	10.2	9.9	9.6
	-12.6	-13.0	11.1	10.9	10.7	10.4	10.1
	-10.5	-11.0	11.6	11.5	11.3	11.1	10.9
	-9.5	-10.0	11.8	11.7	11.5	11.4	11.2
	-8.5	-9.1	12.1	11.9	11.8	11.6	11.3
	-7.0	-7.6	12.4	12.2	12.1	11.8	11.5
	-5.0	-5.6	13.1	12.9	12.7	12.3	12.0
	-3.0	-3.7	13.8	13.6	13.4	12.9	12.4
	0.0	-0.7	14.4	14.2	14.0	13.4	12.8
	3.0	2.2	15.1	14.9	14.7	14.1	13.5
	5.0	4.1	15.8	15.6	15.3	14.4	13.5
	7.0	6.0	16.5	16.2	16.0	14.8	13.5
	9.0	7.9	17.0	16.5	16.0	14.8	13.5
	11.0	9.8	17.5	16.7	16.0	14.8	13.5
280	-19.8	-20.0	25.4	24.4	23.0	22.0	21.1
	-18.8	-19.0	25.6	24.6	23.2	22.3	21.6
	-16.7	-17.0	26.2	25.1	23.7	23.0	22.6
	-14.7	-15.0	27.2	26.1	24.7	23.9	23.5
	-12.6	-13.0	28.4	27.3	25.8	24.9	24.5
	-10.5	-11.0	30.4	29.2	27.5	26.4	26.0
	-9.5	-10.0	31.1	29.8	28.1	27.0	26.6
	-8.5	-9.1	31.4	30.1	28.4	27.4	26.9
	-7.0	-7.6	31.8	30.5	28.8	27.9	27.3
	-5.0	-5.6	32.7	31.5	29.7	29.0	28.1
	-3.0	-3.7	33.5	32.2	30.4	29.8	28.7
	0.0	-0.7	34.3	33.1	31.1	30.4	29.3
	3.0	2.2	35.0	33.7	31.5	30.4	29.5
	5.0	4.1	35.3	33.7	31.5	30.4	29.5
	7.0	6.0	35.7	33.7	31.5	30.4	29.5
	9.0	7.9	35.7	33.7	31.5	30.4	29.5
	11.0	9.8	35.7	33.7	31.5	30.4	29.5
	13.0	11.8	35.7	33.7	31.5	30.4	29.5
	15.0	13.7	35.7	33.7	31.5	30.4	29.5

3 Dimensional Drawing

PAC

AM140JNPDKH/TK

[Unit : mm]



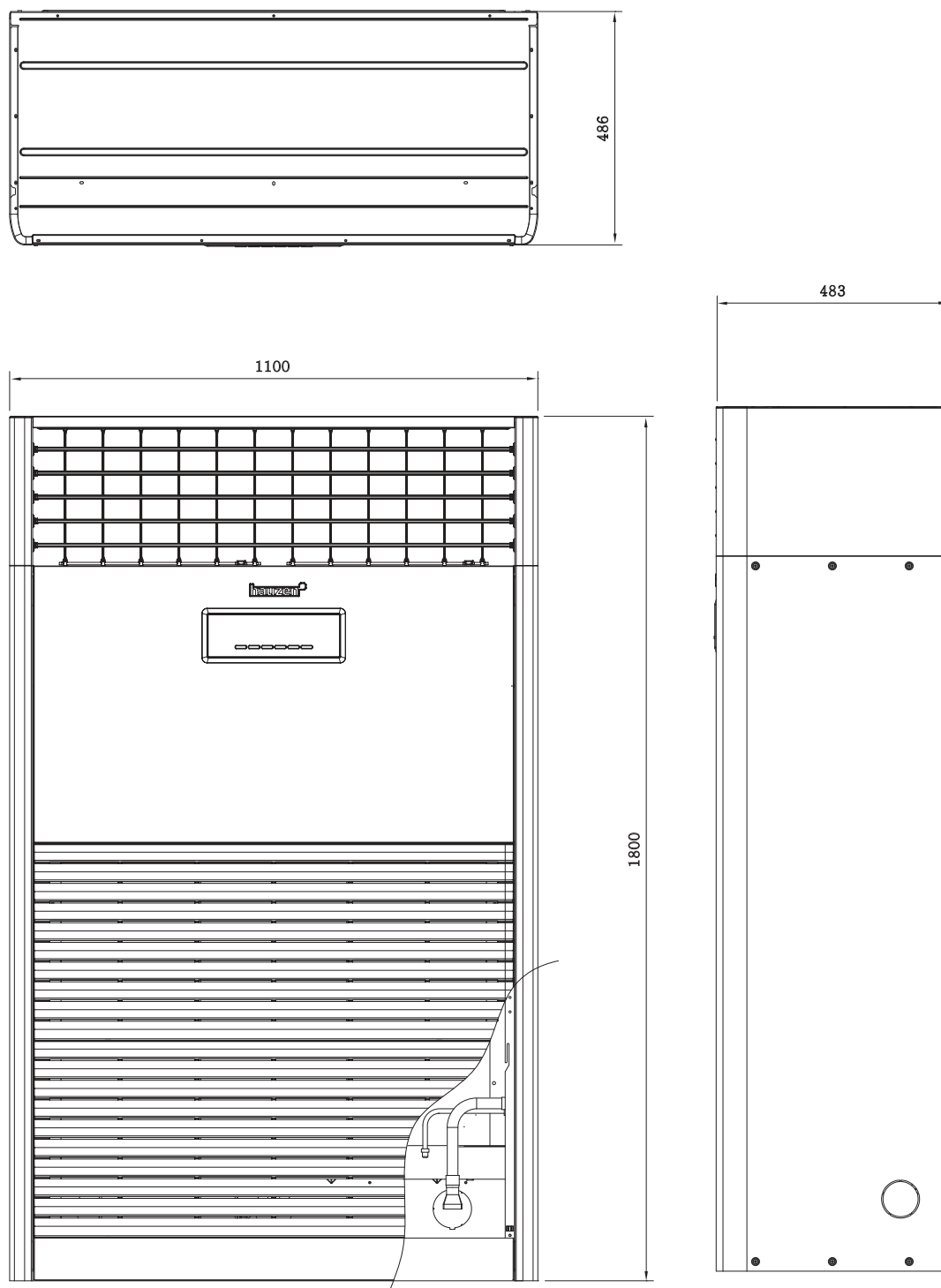
No.	Name	Description
1	Refrigerant gas pipe	Ø15.88 Flare
2	Refrigerant liquid pipe	Ø9.52 Flare
3	Drain pipe connection	-

3 Dimensional Drawing

PAC

AM280JNPDKH/TK

[Unit : mm]

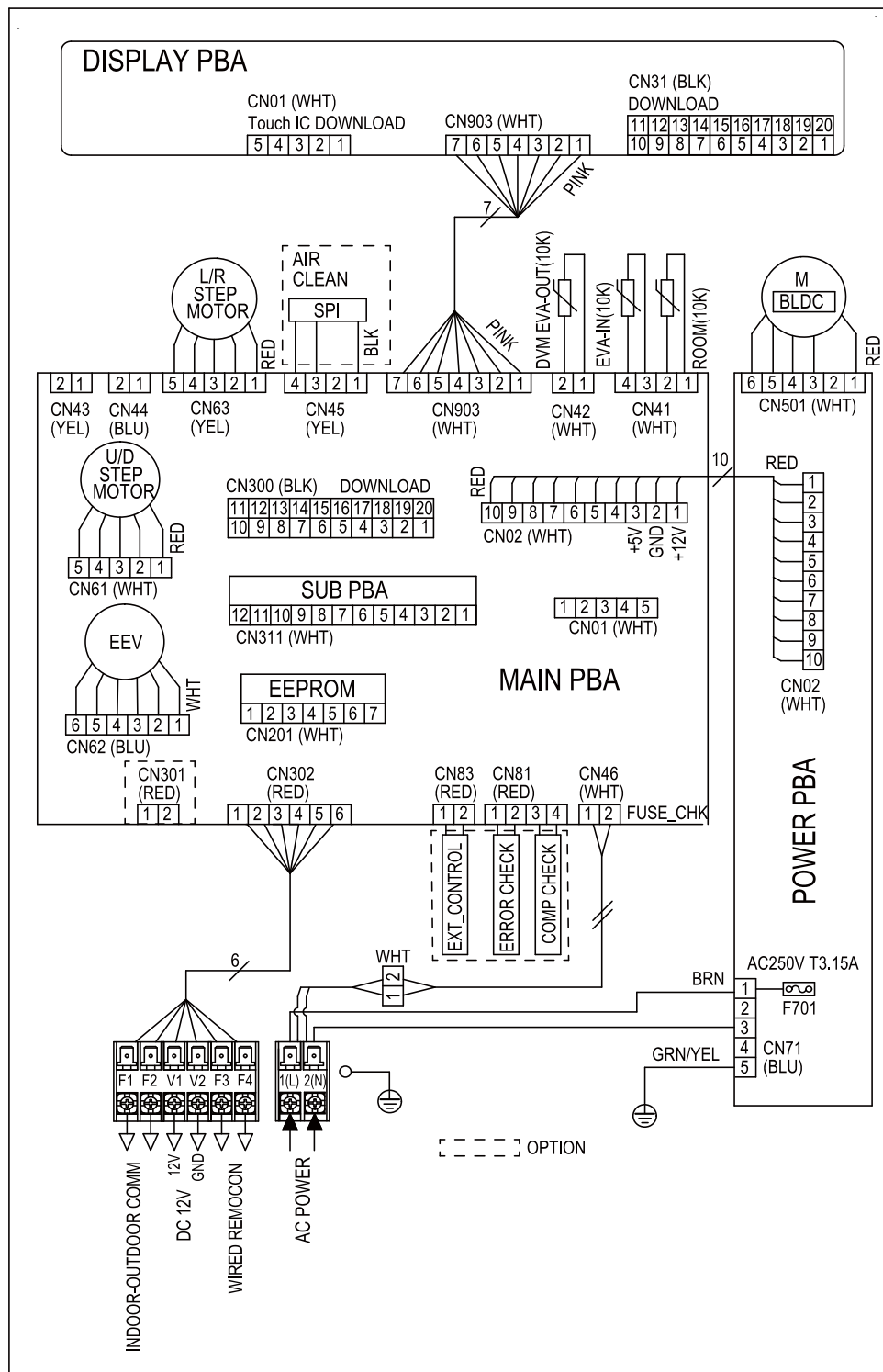


Name	Description
Refrigerant gas pipe	Φ22.22 Flare
Refrigerant liquid pipe	Φ9.52 Flare
Drain pipe connection	VP25 (OD 32, ID 25)

4 Electrical Wiring Diagram

PAC

AM140JNPDKH/TK



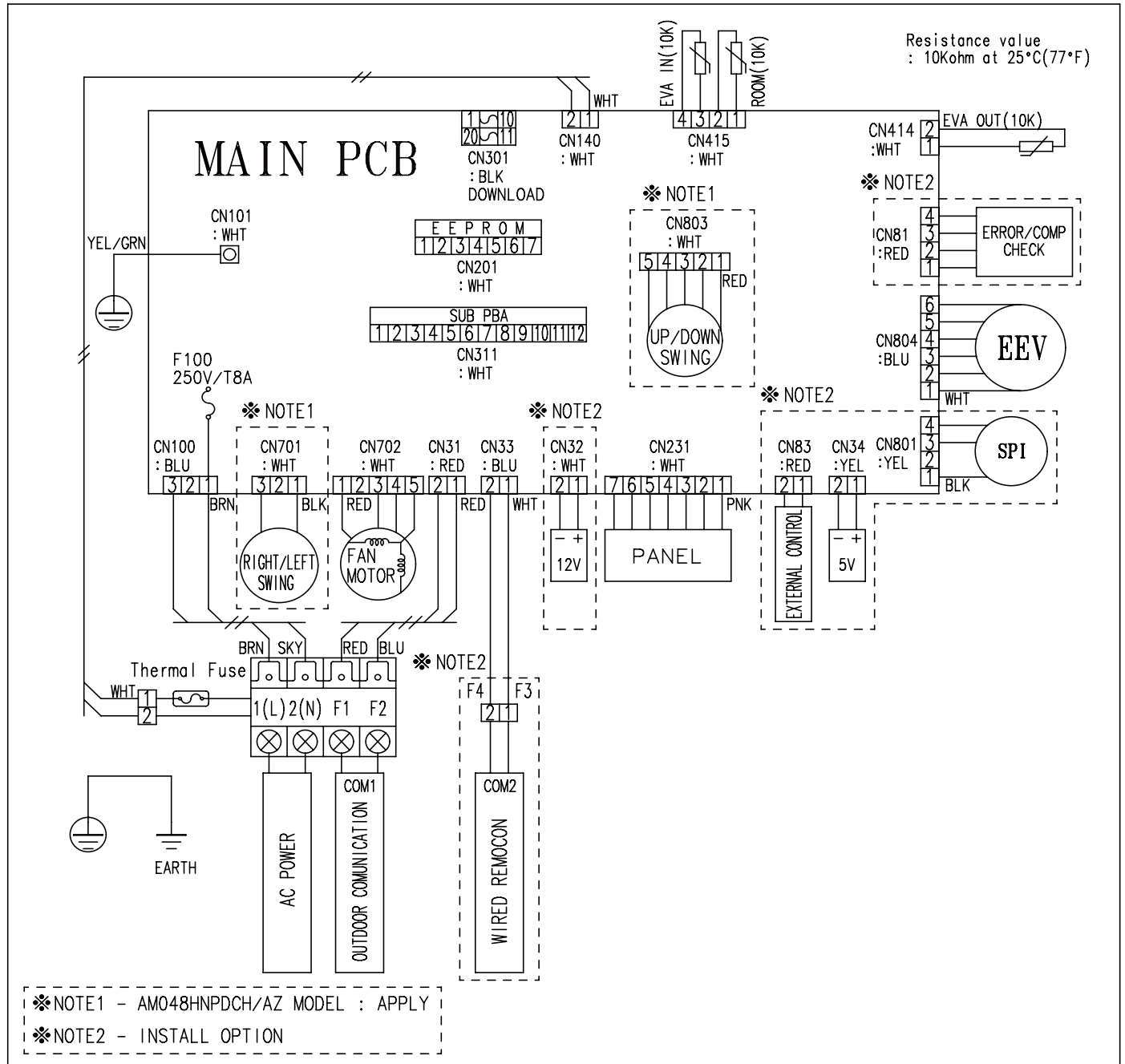
NOTE

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

4

PAC

AM280JNPDKH/TK

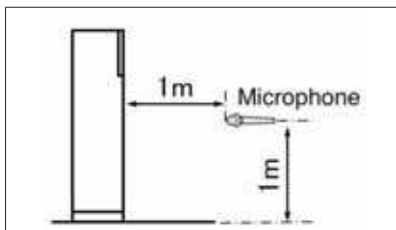


 NOTE

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)

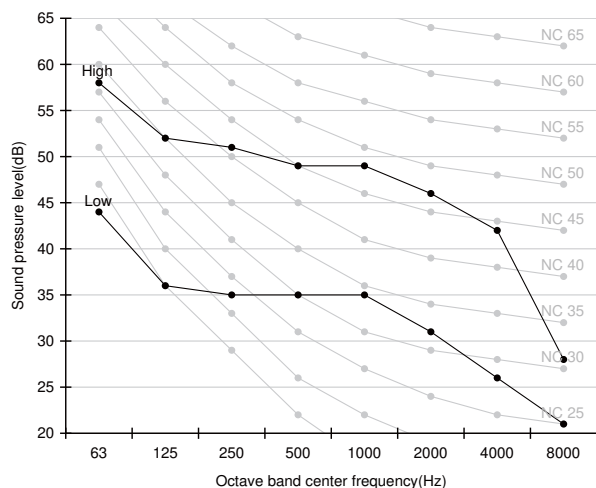
Model	High	Low
AM140JNPDKH/TK	54	47
AM280JNPDKH/TK	58	54

Note

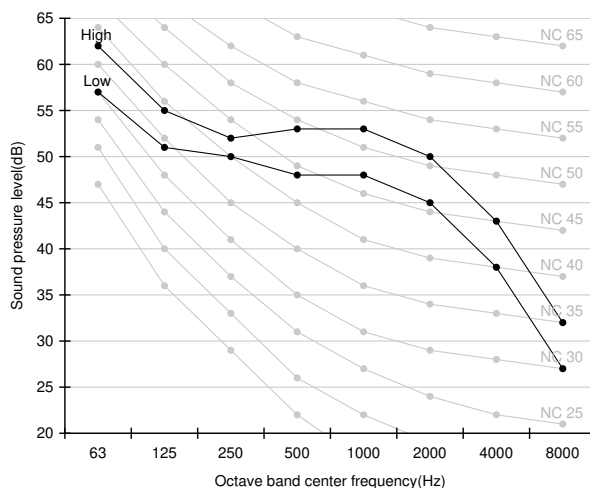
Specifications may be subject to change without prior notice.
 Sound pressure level is obtained in an anechoic room.
 Sound pressure level is a relative value, depending on the distance and acoustic environment.
 Sound pressure level may differ depending on operation condition.
 dBA = A-weighted sound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

NC curve

1) AM140JNPDKH/TK



2) AM280JNPDKH/TK



ERV Plus

- 1 *Specifications*
- 2 *Capacity Table*
- 3 *Dimensional Drawing*
- 4 *Electrical Wiring Diagram*
- 5 *Sound Pressure Level*
- 6 *Fan Characteristics*

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	-	220	510	
		high	W	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	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) Sound pressure was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

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

*5) 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)

Capacity Index	Outdoor Air Temp.	Indoor temperature													
		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
050	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	3.9	2.7	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	4.1	2.5
	39	2.5	2.2	2.9	2.5	3.4	2.7	3.6	2.8	3.7	2.8	3.8	2.7	4.0	2.4
	42	2.5	2.2	2.9	2.5	3.4	2.7	3.5	2.7	3.6	2.7	3.8	2.6	3.9	2.4
	44	2.5	2.2	2.9	2.5	3.3	2.6	3.4	2.6	3.5	2.7	3.6	2.5	3.8	2.3
100	46	2.5	2.2	2.9	2.5	3.2	2.5	3.3	2.6	3.4	2.6	3.5	2.4	3.7	2.2
	48	2.5	2.2	2.8	2.4	3.2	2.5	3.2	2.5	3.3	2.5	3.4	2.4	3.5	2.2
	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	7.3	5.5	7.8	5.5	8.2	5.2
	37	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
	39	4.9	4.3	5.8	5.0	6.7	5.2	7.0	5.3	7.2	5.4	7.6	5.3	7.9	5.0
	42	4.9	4.3	5.8	5.0	6.6	5.1	6.9	5.3	7.1	5.4	7.4	5.2	7.7	4.8
	44	4.9	4.3	5.8	5.0	6.4	5.0	6.7	5.1	6.9	5.2	7.1	5.0	7.4	4.7
	46	4.9	4.3	5.7	5.0	6.3	4.9	6.5	4.9	6.7	5.1	6.9	4.8	7.2	4.6
	48	4.8	4.2	5.7	4.9	6.2	4.8	6.3	4.8	6.6	5.0	6.7	4.7	7.0	4.4

2) Heating

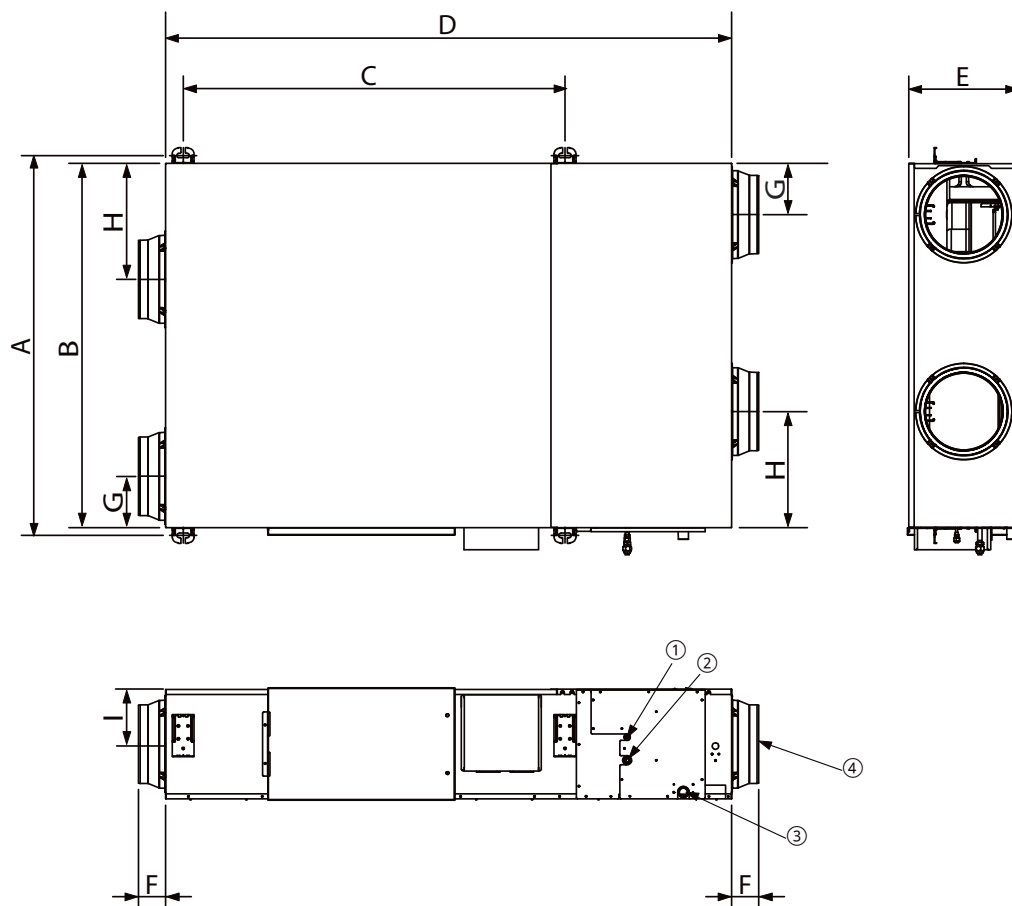
TC : Total Capacity(kW)

Capacity Index	Outdoor Air Temp. (°C)		Indoor temperature				
			16.0	18.0	20.0	22.0	24.0
	DB	WB	TC	TC	TC	TC	TC
			kW	kW	kW	kW	kW
050	-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
	-9.5	-10.0	6.0	5.9	5.8	5.7	5.6
100	-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

ERV Plus

Unit:mm



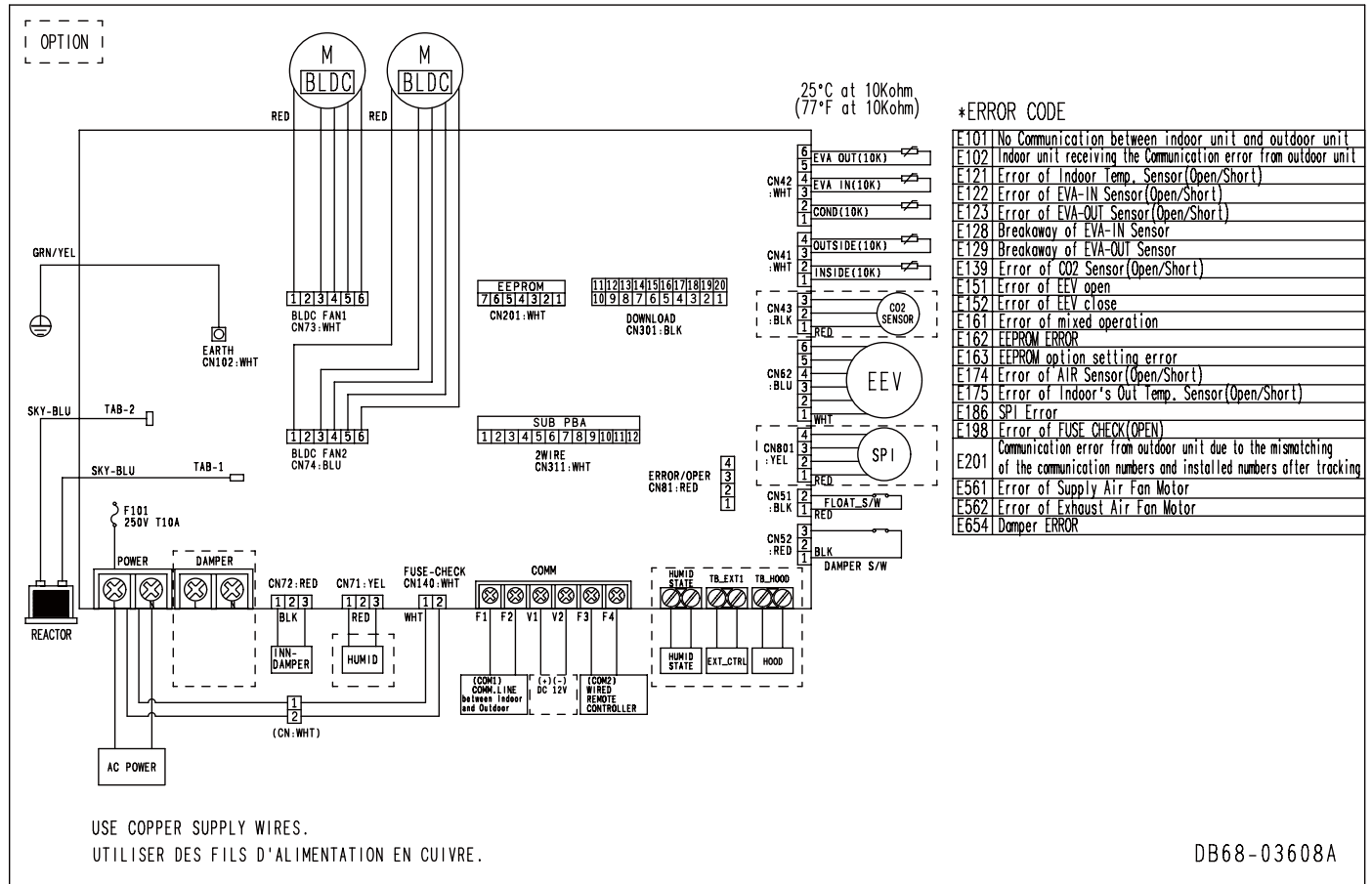
Model	A	B	C	D	E	F	G	H	I
AM050FNKDEH	1036	1000	987	1553	270	99	130	253	135
AM100FNKDEH	1183	1135	1189	1763	340	84	160	362	170

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

4 Electrical Wiring Diagram

ERV Plus

AM050/100FNKDEH/EU



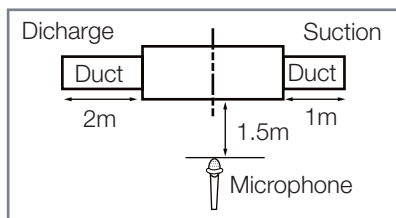
NOTE

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

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.

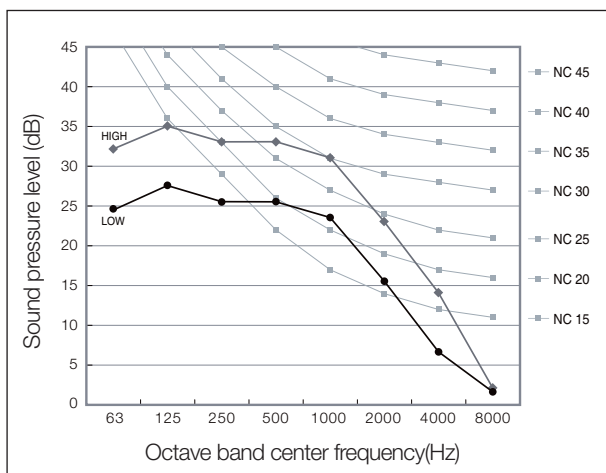
Sound pressure level may differ depending on operation condition.

dBA = A-weighted sound pressure level

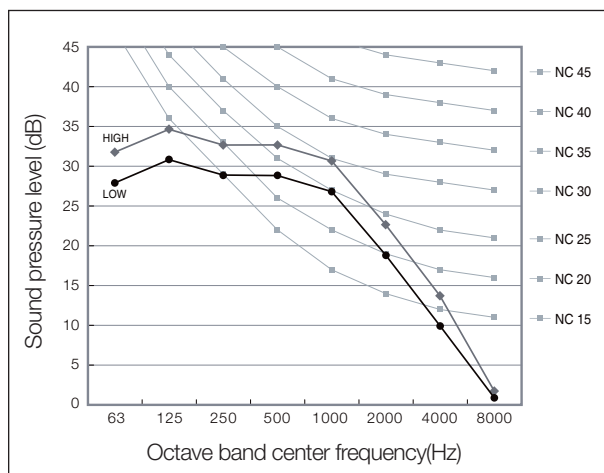
Reference acoustic pressure 0 dB= 20 uPa

2) NC curves

(1) AM050FNKDEH ***



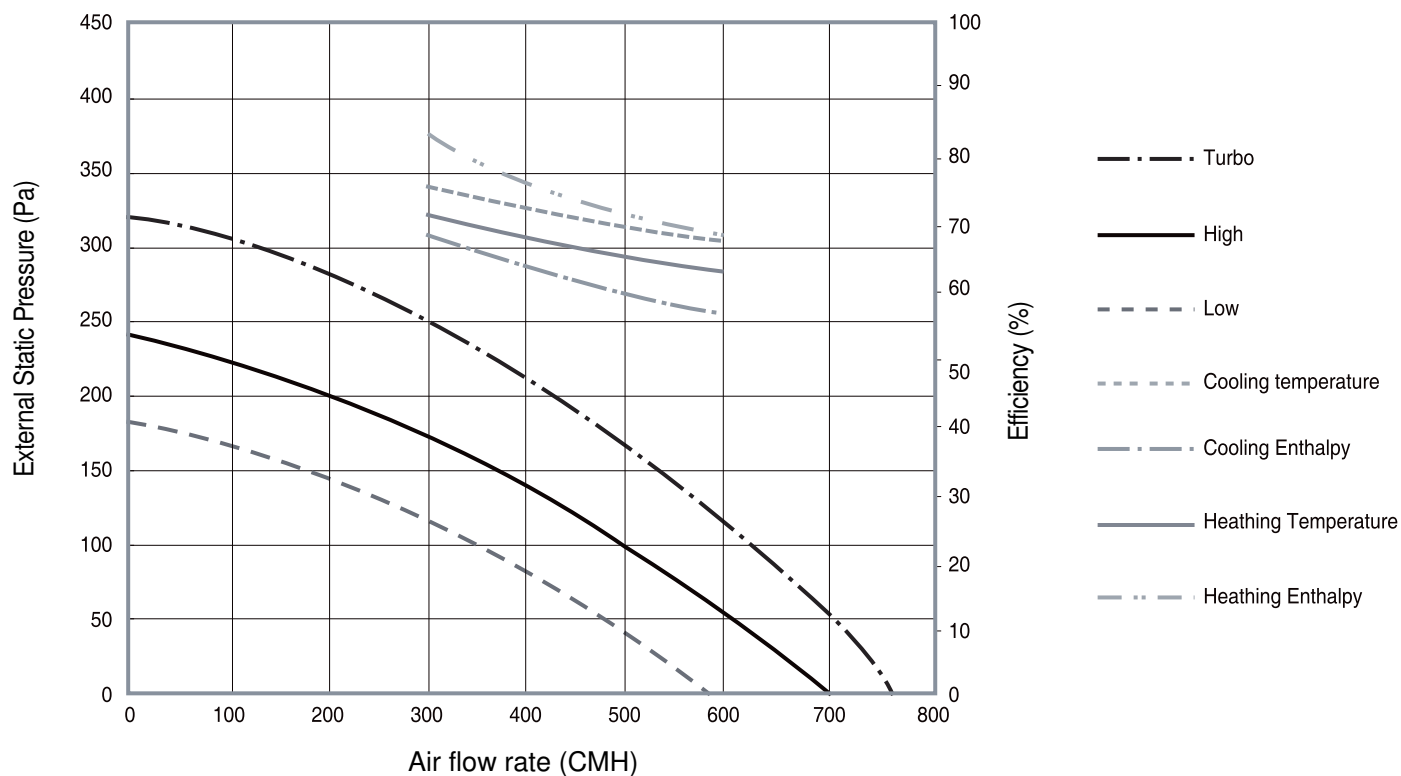
(2) AM100FNKDEH ***



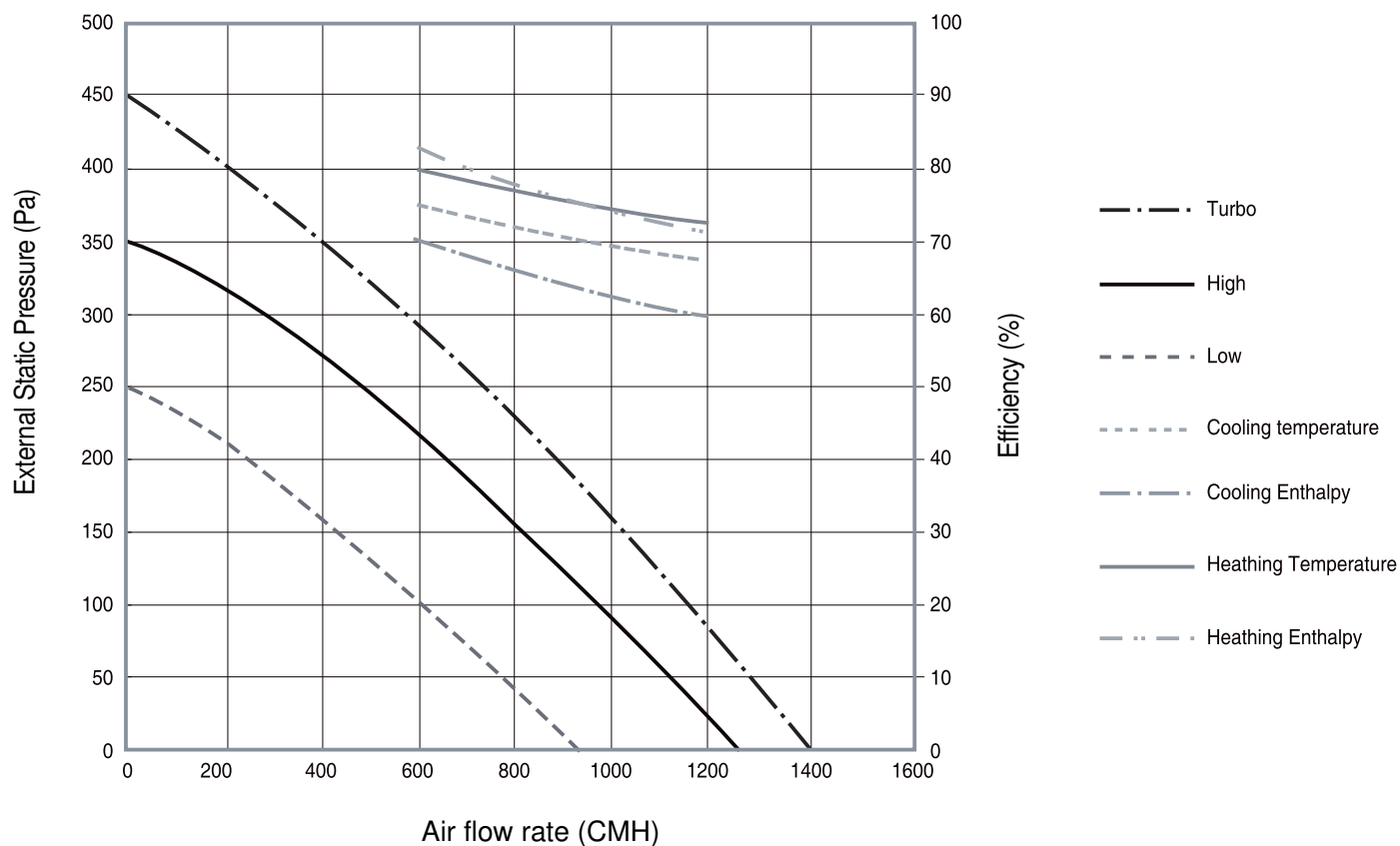
6 Fan Characteristics

ERV Plus

1) AM050FNKDEH/EU



2) AM100FNKDEH/EU



Hydro Unit HE

- 1 *Specifications*
- 2 *Capacity Table*
- 3 *Capacity & Power Input Correction*
- 4 *Operation Range*
- 5 *Piping Diagram*
- 6 *Dimensional Drawing*
- 7 *Electrical Wiring Diagram*
- 8 *Sound Pressure Level*
- 9 *Hydraulic Performance*

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)		A	2.2	2.2	2.2
	MFA			2.75	2.75	2.75
Compressor	Type		-	-	-	-
	Output		kW x n	-	-	-
	Model Name		-	-	-	-
	Oil	Type	-	-	-	-
Initial Charge		cc	-	-	-	
Heat Exchanger	Type		-	PHE	PHE	PHE
	Quantity		-	1	1	1
	Pipe Size		Ø, inch	PT 1 (25A)	PT 1 (25A)	PT 1-1/4 (32A)
	Water Flow Rate		LPM	48	92	150
	Flow Switch		LPM	20	30	50
Option Code			-	01004C-105000-208C8C-332200	01004C-105000-231C1C-332200	01004C-105000-232D2D-332200
Piping Connections	Liquid Pipe		Ø, mm	9.52	9.52	12.7
			Ø, inch	3/8"	3/8"	1/2"
	Gas Pipe		Ø, mm	15.88	22.2	28.58
			Ø, inch	5/8"	7/8"	1 1/8"
	Drain Pipe		Ø,mm	-	-	-
FieldWiring	Power Source Wire (L<10m, Single Installation)		mm2	2.5	2.5	2.5
	Transmission Cable		mm2	0.75 ~ 1.5	0.75 ~ 1.5	0.75 ~ 1.5
Refrigerant	Type		-	-	-	-
	Control Method		-	EEV	EEV	EEV
Sound	Sound Pressure *3)		dB(A)	27	28	31
	Sound Power			-	-	-
Dimensions	Net Weight		kg	29.00	33.00	40.00
	Shipping Weight		kg	31.00	35.00	42.00
	Net Dimensions (W×H×D)		mm	518 x 627 x 330	518 x 627 x 330	518 x 627 x 330
	Shipping Dimensions (W×H×D)		mm	652 x 700 x 426	652 x 700 x 426	652 x 700 x 426
Operating Temp. Range	Ambient	Cooling	℃	-5.0 ~ 48.0	-5.0 ~ 48.0	-5.0 ~ 48.0
		Heating	℃	-20 ~ 35	-20 ~ 35	-20 ~ 35
		Hot Water (Main Cooling, HR)	℃	-20.0 ~ 35(43)	-20.0 ~ 35(43)	-20.0 ~ 35(43)
	Leaving Water	Cooling	℃	5.0 ~ 30.0	5.0 ~ 30.0	5.0 ~ 30.0
		Heating	℃	20.0 ~ 50.0	20.0 ~ 50.0	20.0 ~ 50.0

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

*1) Nominal cooling capacities are based on;

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

*2) Nominal heating capacities are based on;

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

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

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

* Heat Exchanger type : Plate Heat Exchanger (STS)

2 Capacity table

Hydro Unit HE

1) Cooling

Capacity (kW)	Outdoor temp.(°C)	Water inlet temp.(°C)					
	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

2 Capacity table

Hydro Unit HE

2) Heating

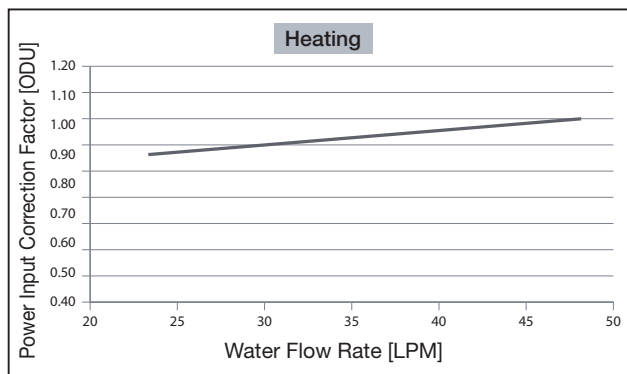
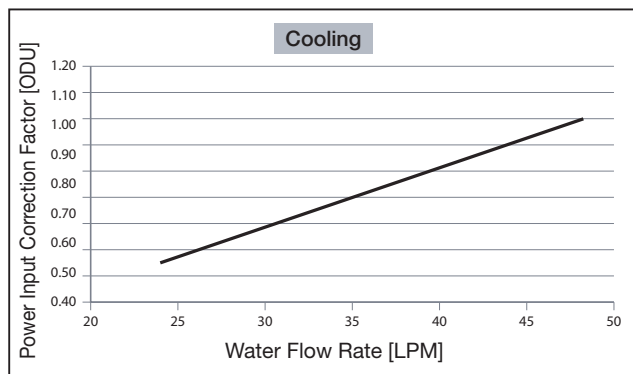
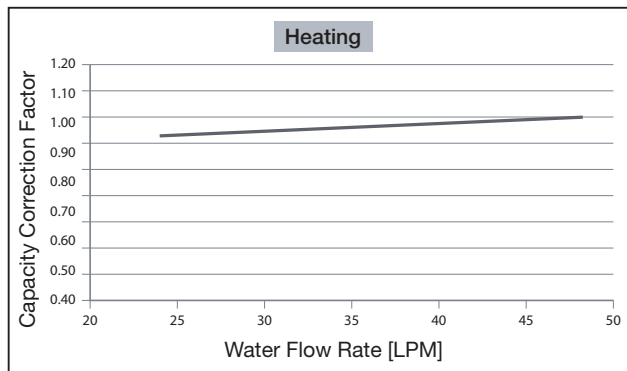
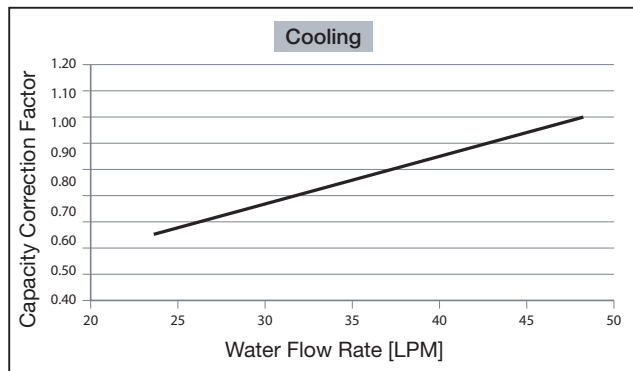
Capacity (kW)	Outdoor temp.(°C)		Water inlet temp.(°C)			
	DB	WB	20	30	40	45
16	-20.0	-20.2	12.4	11.7	7.2	4.7
	-17.5	-17.8	12.9	12.1	8.1	5.8
	-15.0	-15.3	13.4	12.5	8.9	6.8
	-12.5	-13.0	13.9	12.9	9.8	7.7
	-10.0	-10.5	14.3	13.3	10.6	8.6
	-7.5	-8.1	14.8	13.7	11.5	9.1
	-5.0	-5.6	15.3	14.1	12.3	9.6
	-2.5	-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
	20.0	15.0	17.6	16.0	12.8	9.6
	25.0	18.3	17.6	16.0	12.8	9.6
	30.0	21.3	17.6	16.0	12.8	9.6
	35.0	24.0	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
	20.0	15.0	34.1	31.5	28.4	18.9
	25.0	18.3	34.1	31.5	28.4	18.9
	30.0	21.3	34.1	31.5	28.4	18.9
	35.0	24.0	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
	20.0	15.0	55.4	50.4	40.3	30.2
	25.0	18.3	55.4	50.4	40.3	30.2
	30.0	21.3	55.4	50.4	40.3	30.2
	35.0	24.0	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 ΔT

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

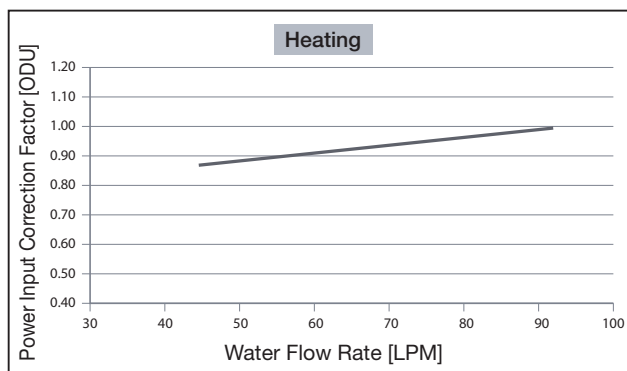
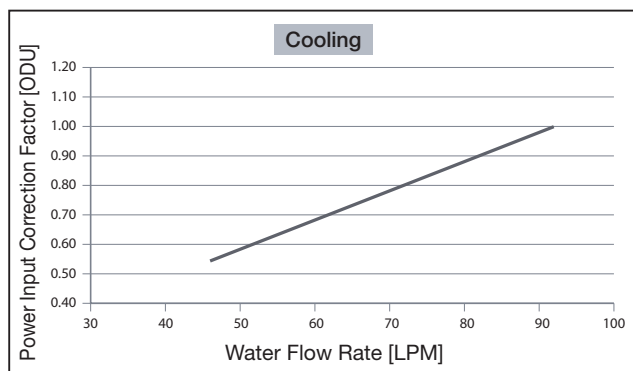
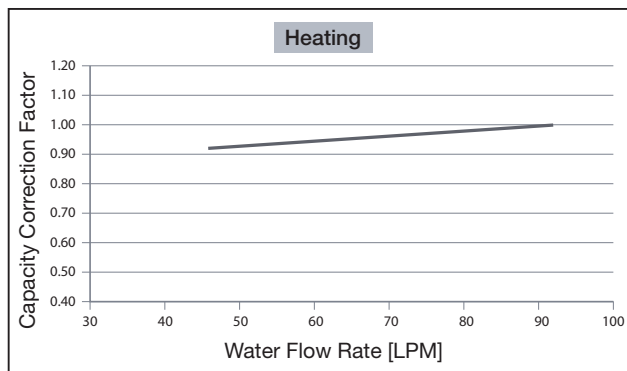
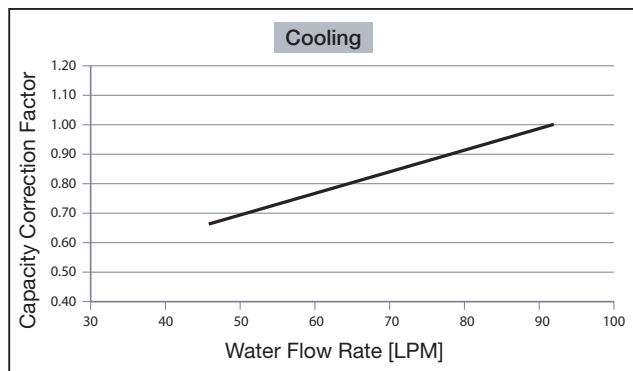
* Minimum flow rate of the Hydro unit is 50% of rated flow rate.

3 Capacity & Power input correction

Hydro 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 ΔT

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

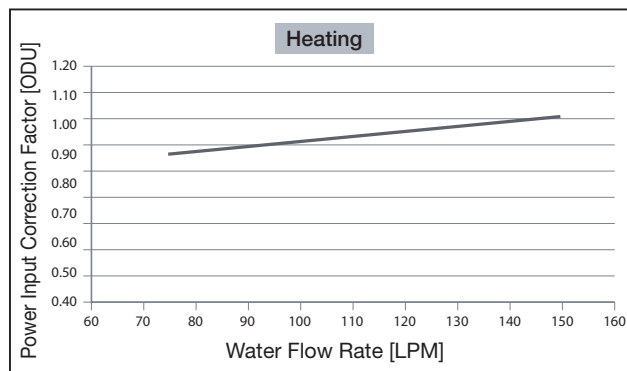
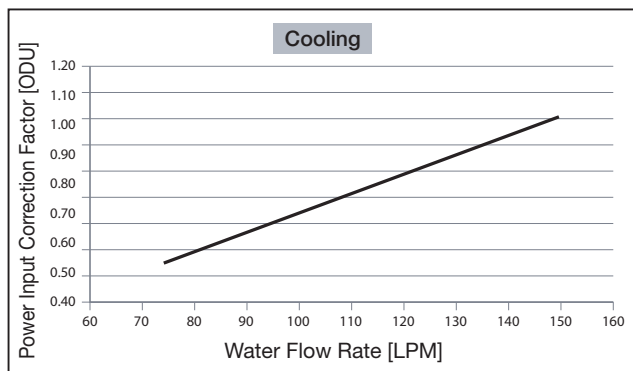
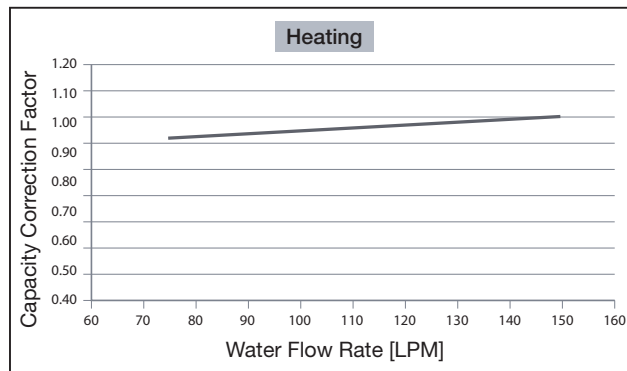
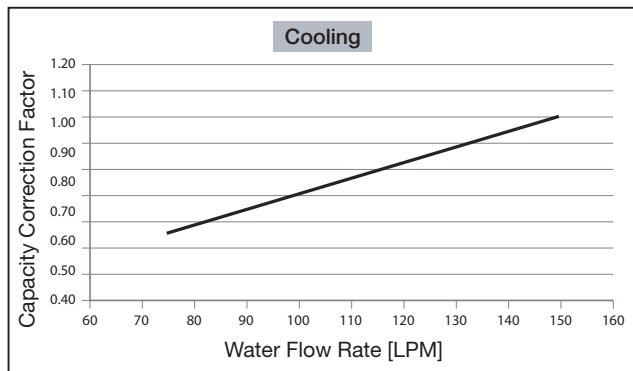
* Minimum flow rate of the Hydro unit is 50% of rated flow rate.

3 Capacity & Power input correction

Hydro 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 ΔT

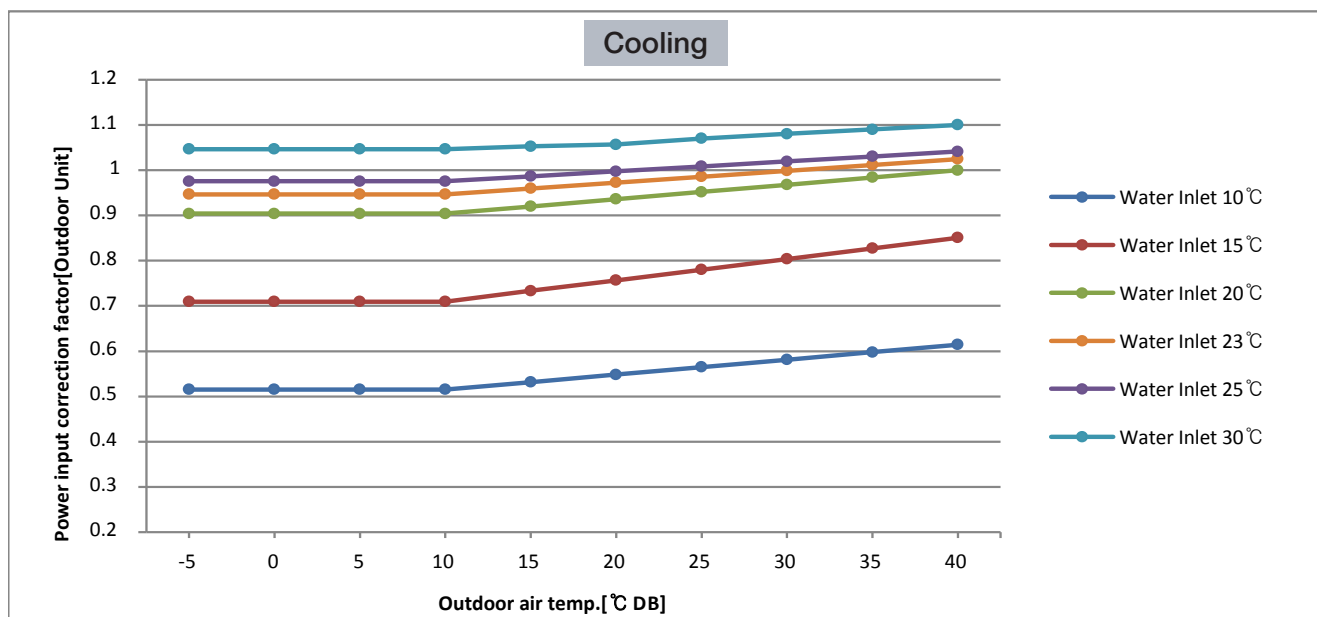
Flow Rate [LPM]	5HP	10HP	16HP
$\Delta T=10^{\circ}\text{C}$	24.0	46.0	75.0
$\Delta T=5^{\circ}\text{C}$	48.0	92.0	150.0

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

3 Capacity & Power input correction

Hydro Unit HE

2) By outdoor air temperature



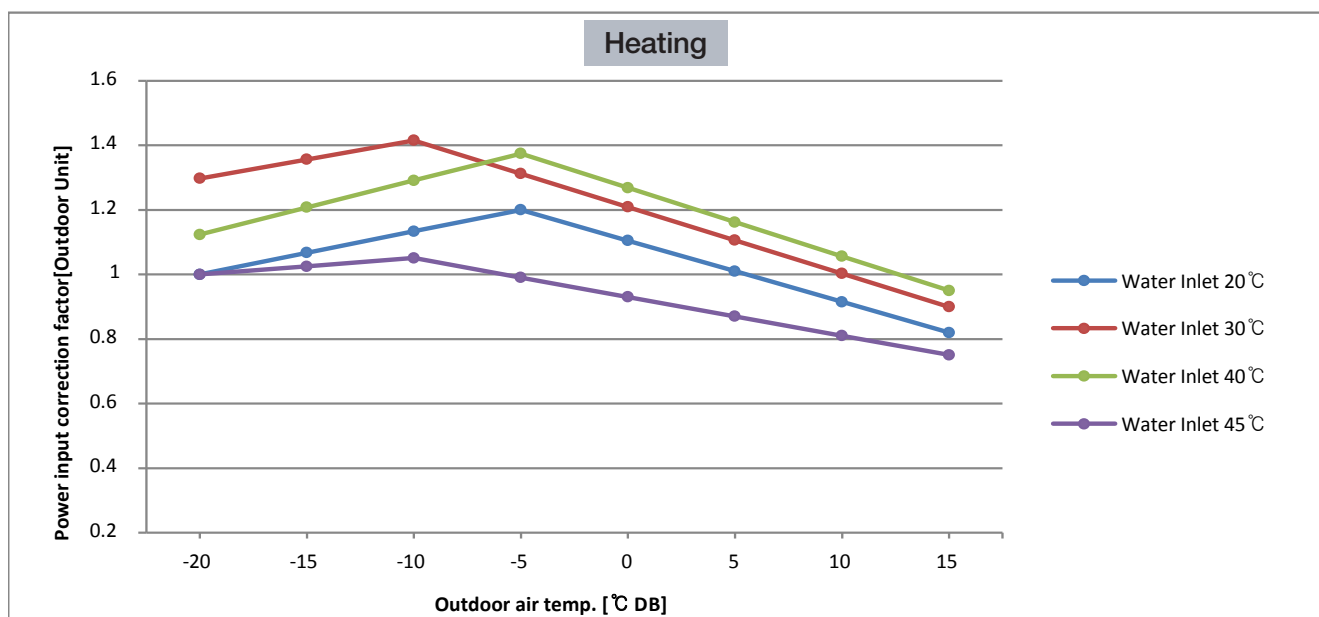
Power input correction factor (Cooling)

Outdoor air temp. (DB, °C)	Water inlet temp. (°C)					
	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



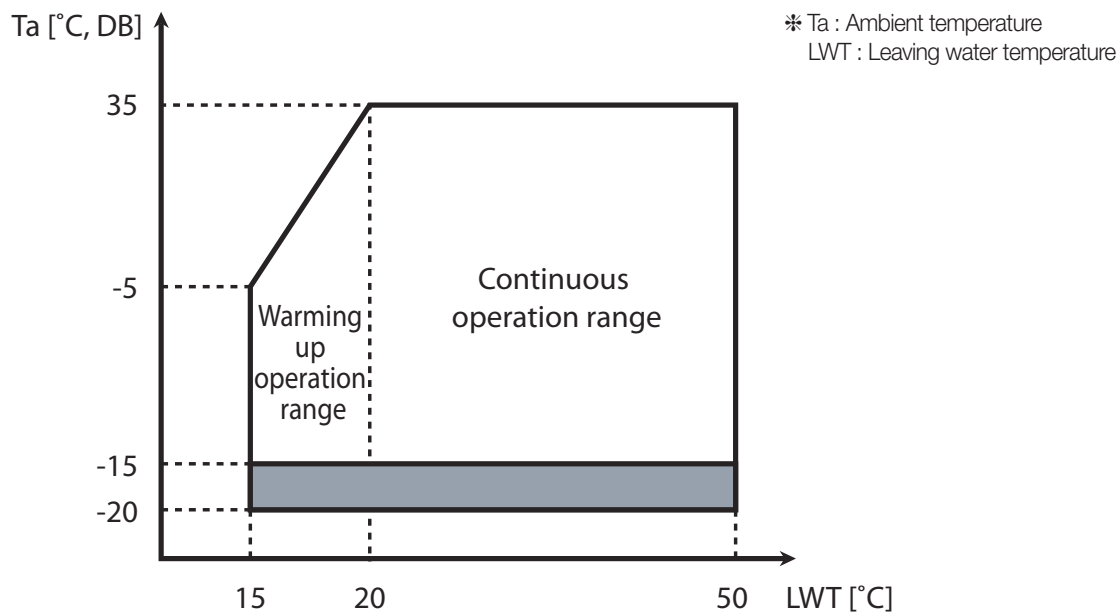
Power input correction factor (Heating)

Outdoor air temp. (°C)		Water inlet temp. (°C)			
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
20	15	0.81	0.89	0.94	0.75
25	18.3	0.81	0.89	0.94	0.74
30	21.3	0.81	0.88	0.93	0.74
35	24	0.80	0.88	0.93	0.73

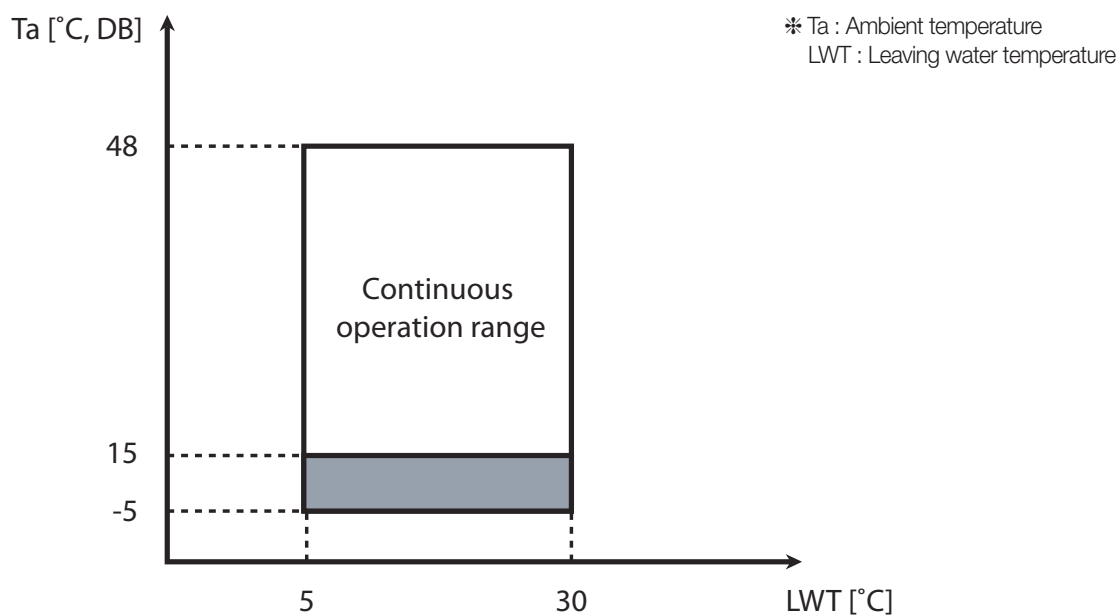
4 Operation range

Hydro Unit HE

1) Heating



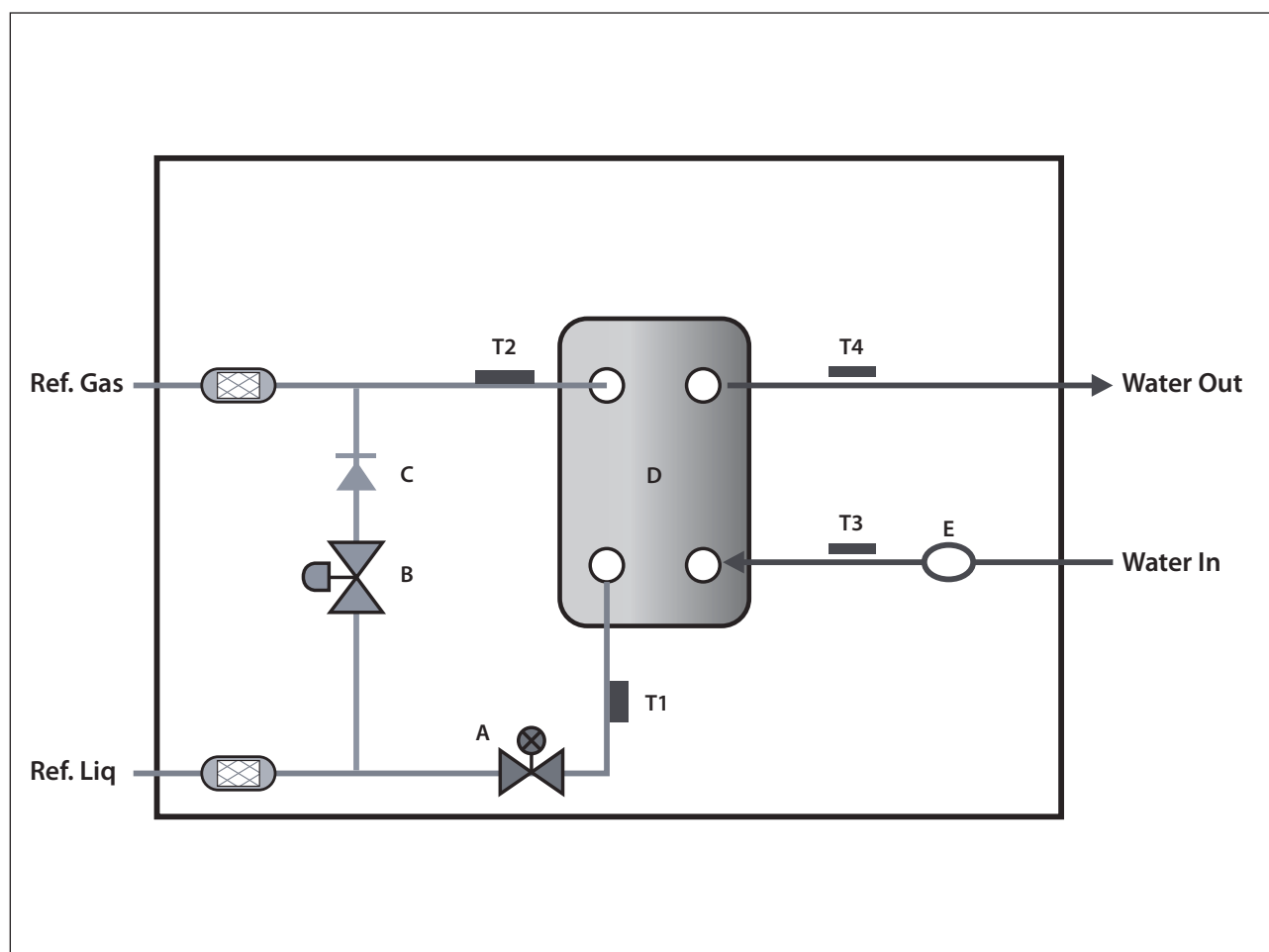
2) Cooling



*  : Operation of outdoor unit possible, but no guarantee of capacity in this condition.

5 Piping diagram

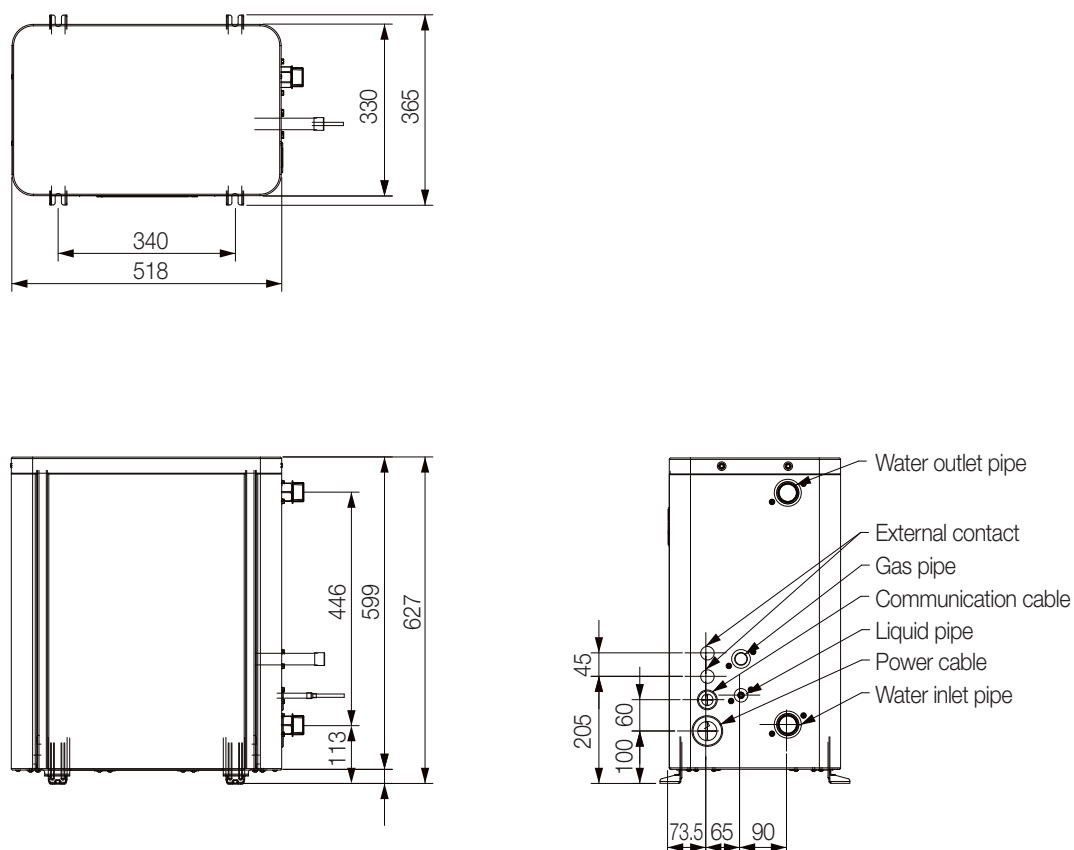
Hydro Unit HE



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

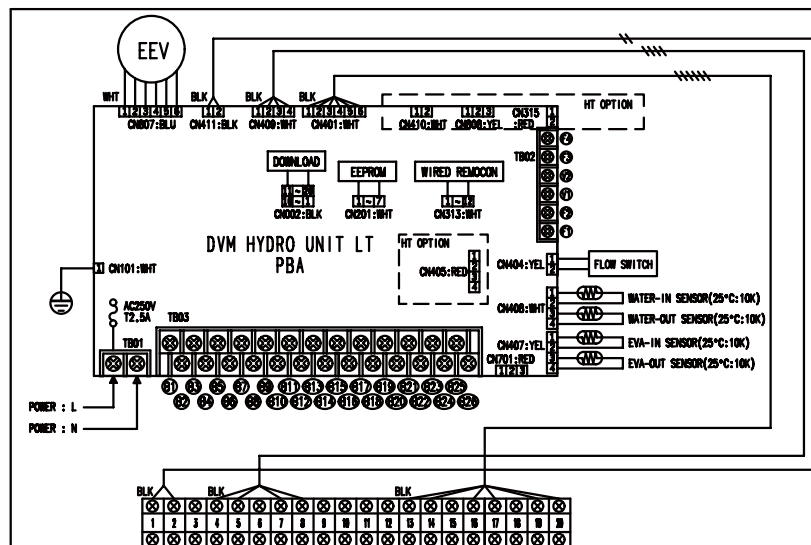


Model name of DVM Hydro unit		AM160FNBDEH***	AM320FNBDEH***	AM500FNBDEH***
Refrigerant side	Liquid pipe	3/8" (ø9.52)	3/8" (ø9.52)	1/2" (ø12.7)
	Gas pipe	5/8" (ø15.88)	7/8" (ø22.23)	1-1/8" (ø28.58)
Water side	Water inlet/outlet pipe	PT 1 (25 A)	PT 1 (25 A)	PT 1-1/4 (32 A)

7 Electrical Wiring Diagram

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 input 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 water 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 (not 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

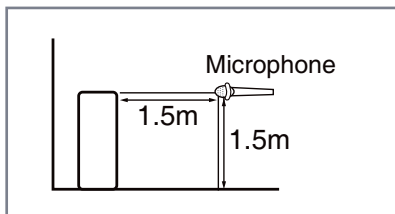
NOTE

- 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 remotecontroller transmission F3-F4.
- ⊕: Protective earth(screw), □□□□: Connector, n: The wire quantity

8 Sound pressure level

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.

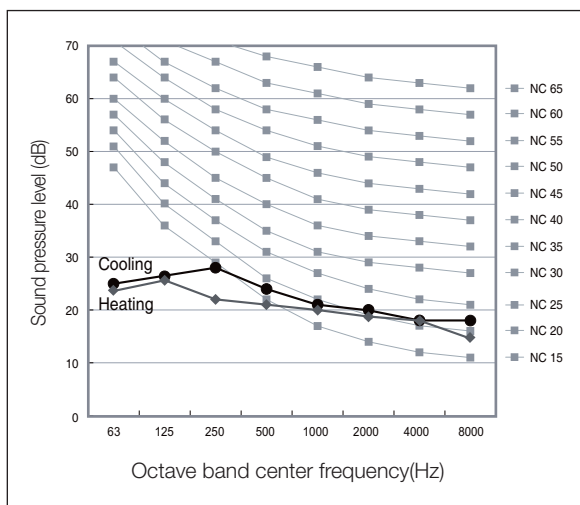
Sound pressure level may differ depending on operation condition.

dBA = A-weighted sound pressure level

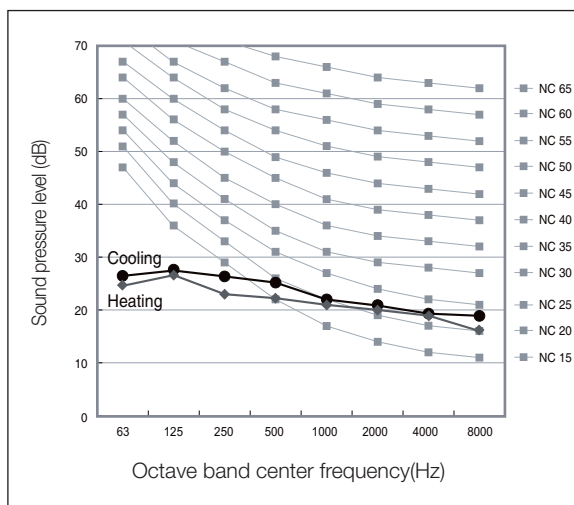
Reference acoustic pressure 0 dB= 20 uPa

2) NC curves

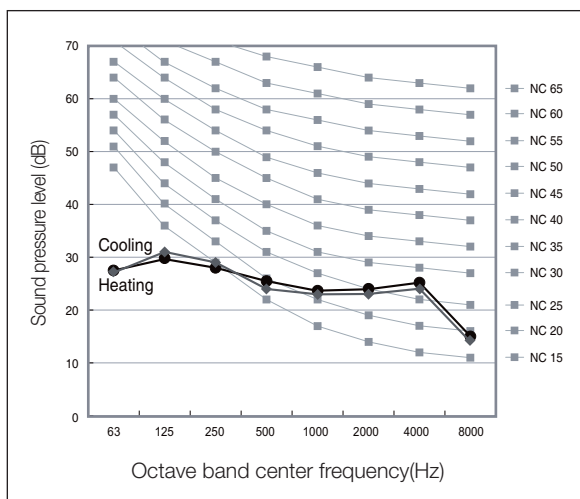
(1) AM160FNBDEH ***



(2) AM320FNBDEH ***



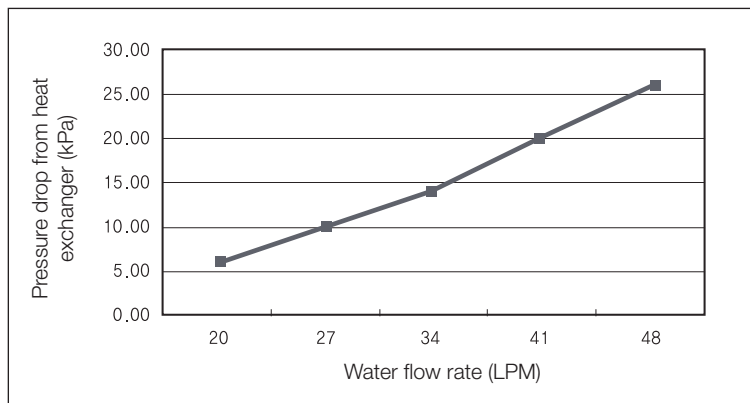
(3) AM500FNBDEH ***



9 Hydraulic performance

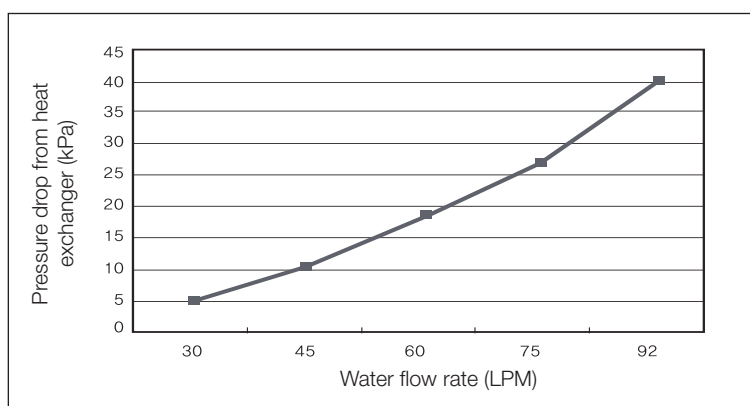
Hydro Unit HE

1) AM160FNBDEH***



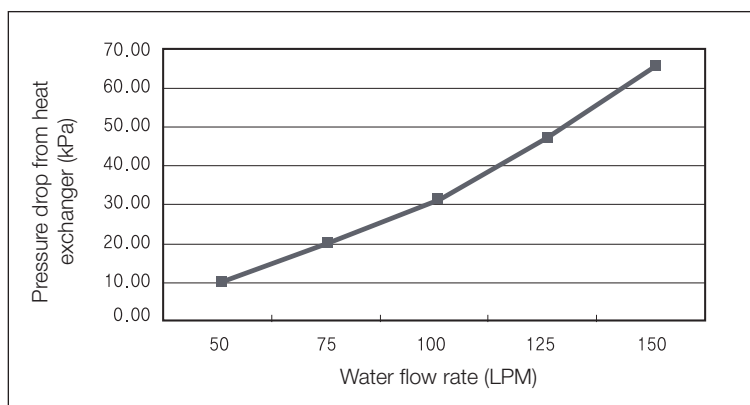
Water flow rate (LPM)	Pressure drop from heat exchanger (kPa)
20	6
27	10
34	14
41	20
48	26

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*
- 2 *Capacity Table*
- 3 *Piping Diagram*
- 4 *Dimensional Drawing*
- 5 *Electrical Wiring Diagram*
- 6 *Sound Pressure Level*
- 7 *Hydraulic Performance*

1 Specifications

Hydro Unit HT

1) Technical specifications

Model				AM160FNBFB***	AM160FNBFBG***	AM250FNBFB***	AM250FNBFBG***
Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50	3, 4, 380-415, 50	1, 2, 220-240, 50	3, 4, 380-415, 50
Mode			-	HP/HR	HP/HR	HP/HR	HP/HR
Performance	Capacity (Nominal)	Cooling *1)	kW	-	-	-	-
			Btu/h	-	-	-	-
		Heating *2)	kW	16.0	16.0	25.0	25.0
			Btu/h	54,600	54,600	85,300	85,300
Power	Power Input (Nominal)	Cooling *1)	W	-	-	-	-
		Heating *2)		3,100	3,100	5,000	5,000
	Current Input (Nominal)	Cooling *1)	A	-	-	-	-
		Heating *2)		14.3	4.85	23.1	7.85
	MCA (Including External Contact)				24.15	12.88	32.15
Compressor	MFA		A	30.19	16.1	40.19	16.1
	Type		-	Rotary	Rotary	Rotary	Rotary
	Output		kW × n	-	-	-	-
	Model Name		-	UX5T250FNBEX	UX5T250FNBEX	UX5T250FNBEX	UX5T250FNBEX
	Oil	Type	-	POE	POE	POE	POE
Initial Charge		cc	1,700	1,700	1,700	1,700	
Heat Exchanger	Type		-	PHE	PHE	PHE	PHE
	Quantity		-	2	2	2	2
	Pipe Size		Ø, inch	PT 1 (25A)	PT 1 (25A)	PT 1 (25A)	PT 1 (25A)
	Water Flow Rate		LPM	23	23	36	36
	Flow Switch		LPM	12	12	12	12
Option Code			-	01104C-105000-20A0A0-332200	01104C-105000-20A0A0-332200	01104C-105000-20FAFA-332100	01104C-105000-20FAFA-332100
Piping Connections	Liquid Pipe	Ø, mm		9.52	9.52	9.52	9.52
		Ø, inch		3/8"	3/8"	3/8"	3/8"
	Gas Pipe	Ø,mm		15.88	15.88	15.88	15.88
		Ø, inch		5/8"	5/8"	5/8"	5/8"
Drain Pipe		Ø, mm		-	-	-	-
Field Wiring	Power Source Wire (L<10m, Single Installation)		mm2	4.0	2.5	4.0	2.5
	Transmission Cable		mm2	0.75 ~ 1.5	0.75 ~ 1.5	0.75 ~ 1.5	0.75 ~ 1.5
Refrigerant	Type		-	R-134a	R-134a	R-134a	R-134a
	Control Method		-	EEV	EEV	EEV	EEV
	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.

2 Capacity table

Hydro Unit HT

1) Heating

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

LW : Leaving Water temperature, EW : Entering Water temperature

Model	Ta [°C DB]	LW[°C] 45		LW[°C] 55		LW[°C] 65		LW[°C] 75	
		HC	PI	HC	PI	HC	PI	HC	PI
160	-20	15,000	2,062	15,000	2,017	15,000	2,523	14,000	3,193
	-17	15,000	2,083	15,000	1,952	15,000	2,357	14,500	3,063
	-15	15,500	2,313	15,500	2,007	15,500	2,435	15,000	2,895
	-7	15,500	2,305	16,000	2,185	16,000	2,598	15,500	2,956
	-3	16,000	2,352	16,000	2,380	16,000	2,560	16,000	3,087
	1	16,000	2,146	16,000	2,363	16,000	2,501	16,000	3,052
	3	16,000	2,041	16,000	2,314	16,000	2,453	16,000	2,963
	7	16,000	1,868	16,000	2,281	16,000	2,419	16,000	2,828
	11	16,000	1,850	16,000	2,279	16,000	2,428	16,000	2,763
	15	16,000	1,806	16,000	2,259	16,000	2,474	16,000	2,734
	20	16,000	1,784	16,000	2,232	16,000	2,444	16,000	2,701
	25	16,000	1,763	16,000	2,205	16,000	2,415	16,000	2,668
	30	16,000	1,741	16,000	2,178	16,000	2,385	16,000	2,636
	35	16,000	1,719	16,000	2,151	16,000	2,355	16,000	2,603
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
	20	25,000	3,359	25,000	3,488	25,000	3,752	25,000	3,713
	25	25,000	3,318	25,000	3,445	25,000	3,707	25,000	3,668
	30	25,000	3,278	25,000	3,403	25,000	3,661	25,000	3,623
	35	25,000	3,237	25,000	3,360	25,000	3,616	25,000	3,578

EW = 40°C
ΔT = 5°C

EW = 45°C
ΔT = 10°C

EW = 55°C
ΔT = 10°C

EW = 65°C
ΔT = 10°C

Conditions

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

2 Capacity table

Hydro Unit HT

2) Capacity calculation method

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

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

Example

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

8HP DVM S TDB Heat Capacity Table

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

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

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

Outdoor Unit Capacity Table

2 Capacity table

Hydro Unit HT

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
	-10	-11	30.7	10.40
	-7	-8	31.2	9.57
	-5	-6	31.5	8.99
	-3	-4	31.5	8.15
	0	-1	31.5	7.68
	3	2	31.5	7.25
	5	4	31.5	6.88
	7	6	31.5	6.70
	9	8	31.5	6.38
	11	10	31.5	6.08
	13	12	31.5	5.81
	15	14	31.5	5.61

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

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

Outdoor Unit Capacity Table

Flowrate Information

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

2 Capacity table

Hydro Unit HT

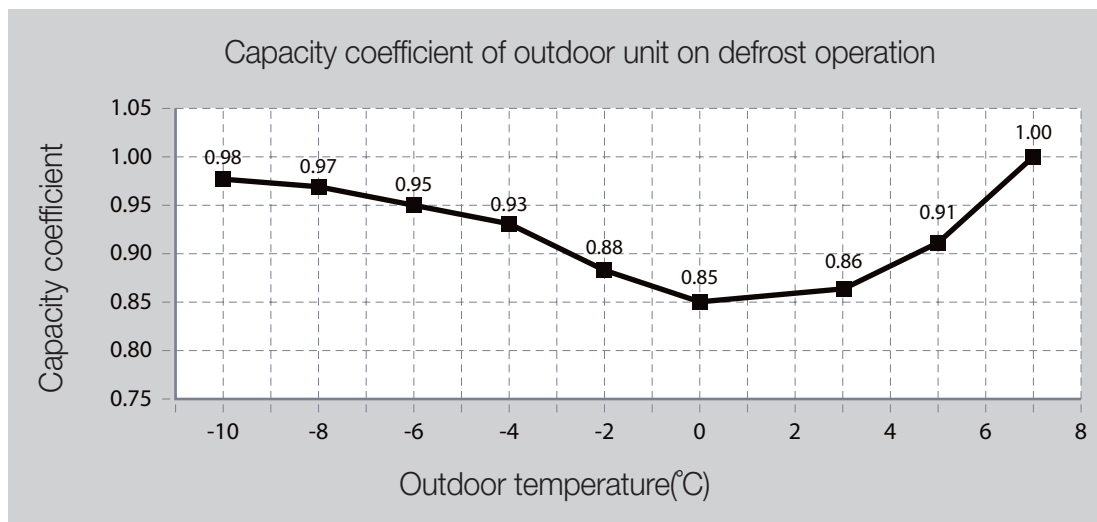
How to calculate heating capacity and power input : Integrated value

1. Defrosting correction factor (Outdoor unit)

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

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

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 = $0.91 - (1 - 0.91) \times 0.3 = 0.883$

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

5) Power input (Outdoor unit) = 6.88kW

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

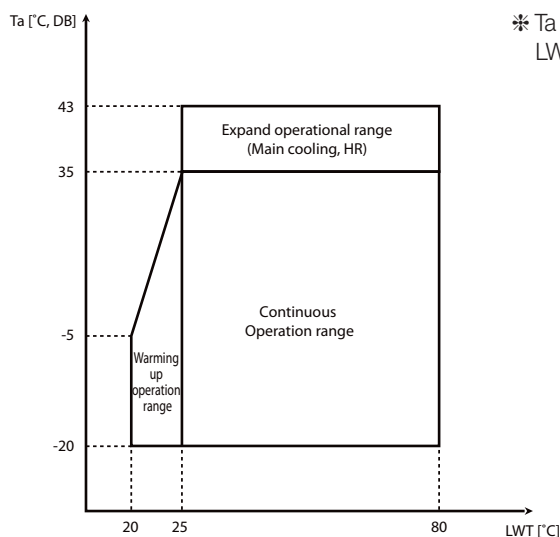
7) Total PI = $6.88 + 4.62 = 11.5\text{kW}$

10HP DVM S TDB Heat Capacity Table

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

2-3. Operation range

1) Heating

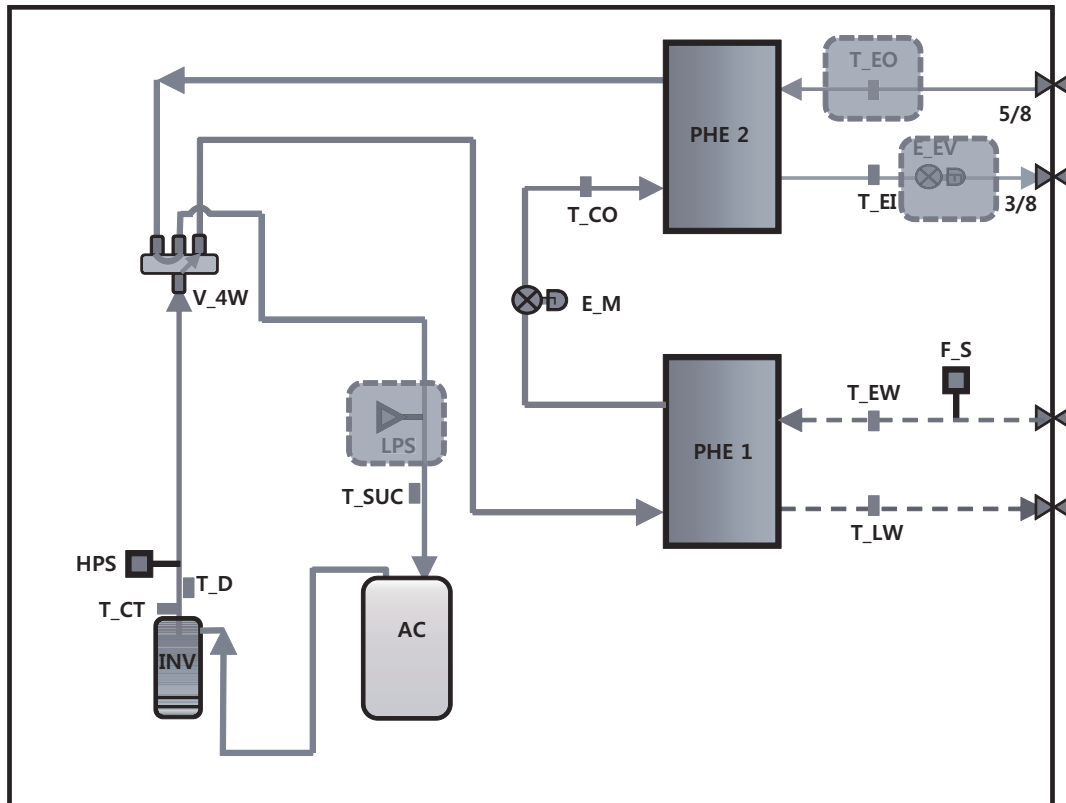


* Ta : Ambient temperature

LWT : Leaving water temperature

3 Piping diagram

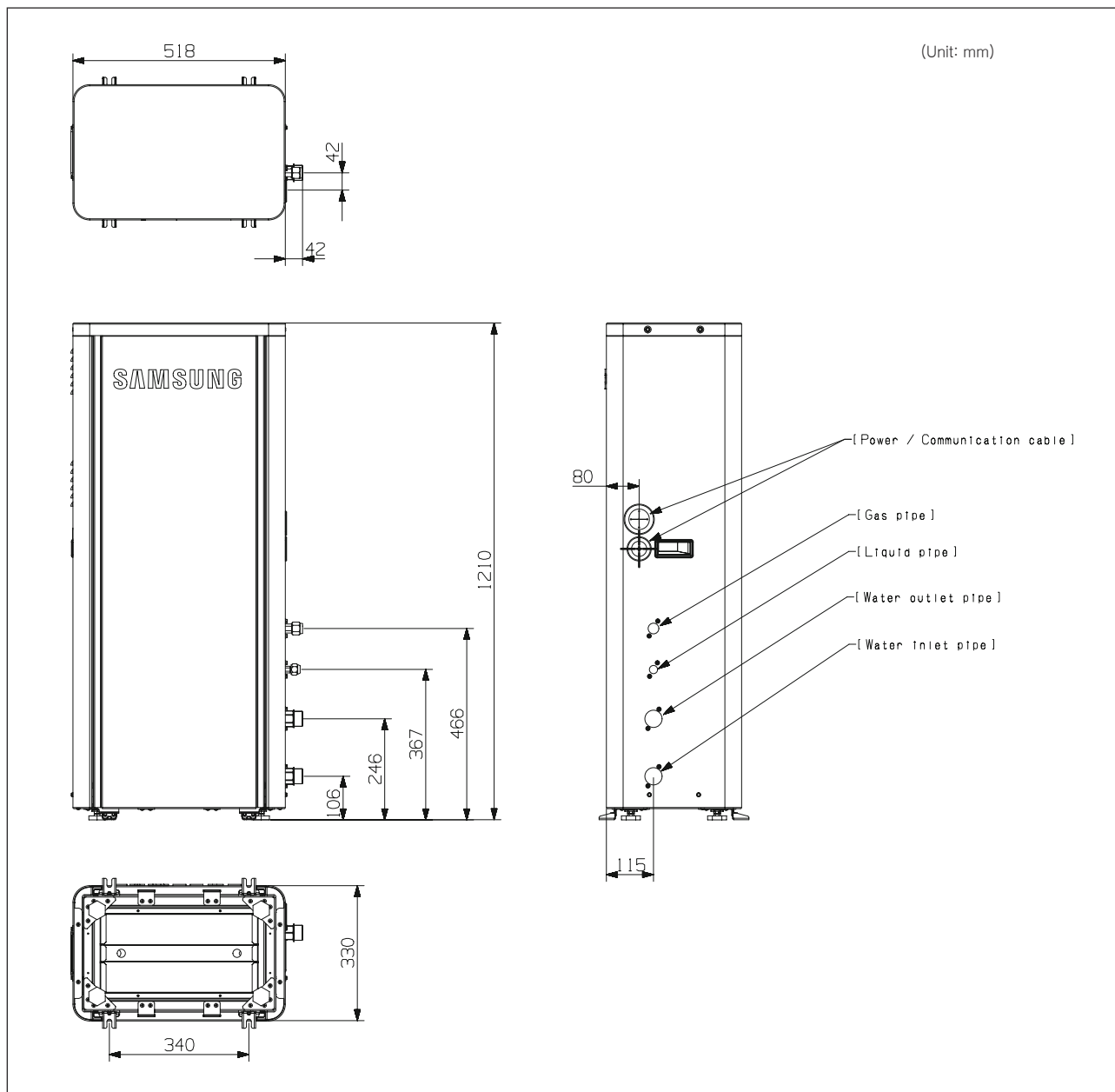
Hydro Unit HT



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

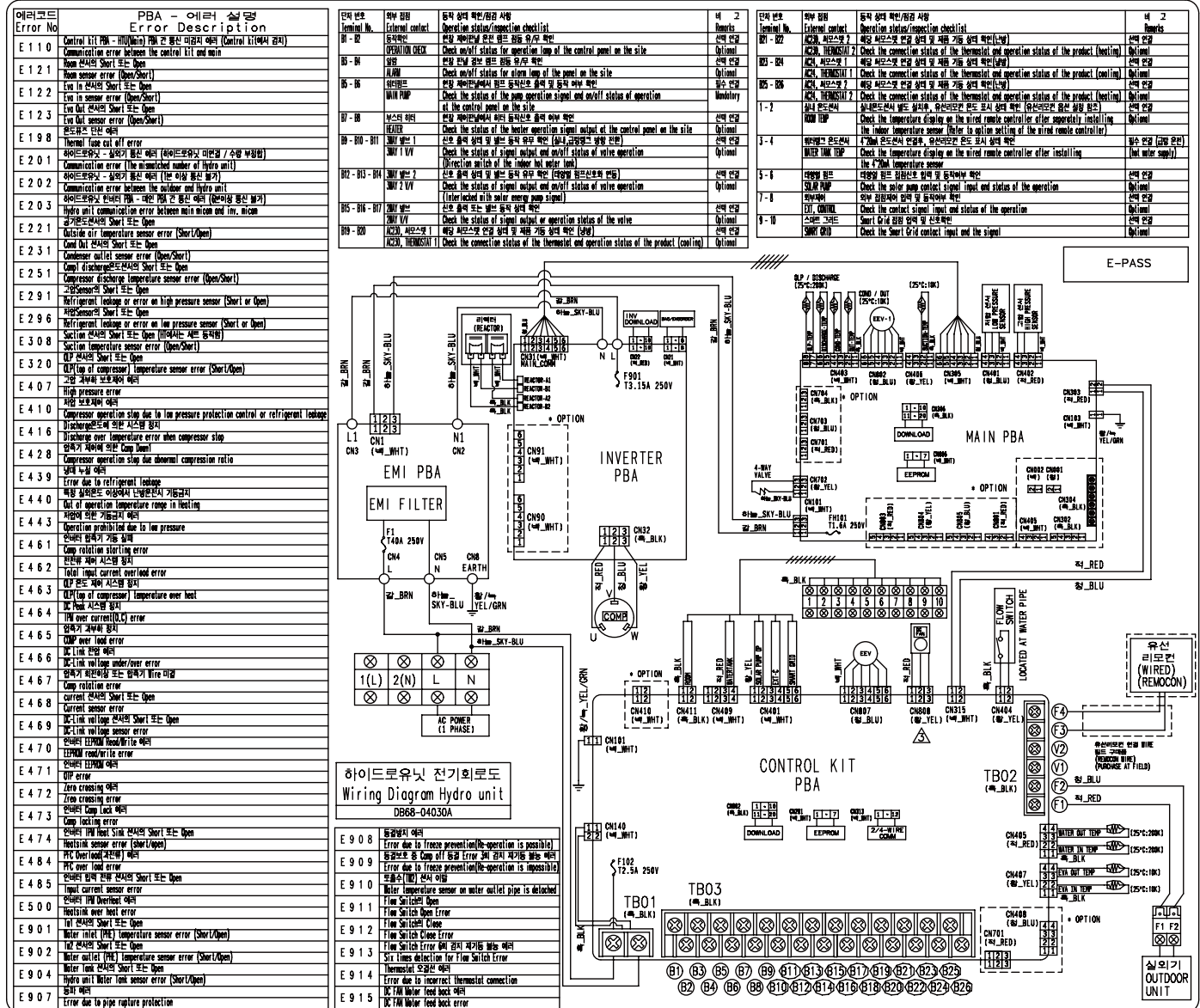


Model of the Hydro unit		AM***FNBF*B
Refrigerant side	Liquid side connection part	3/8" (ø9.52)
	Gas side connection part	5/8" (ø15.88)
Water side connection part		PT 1(25A)

5 Electrical Wiring Diagram

Hydro Unit HT

AM160/250FNBFE/BU



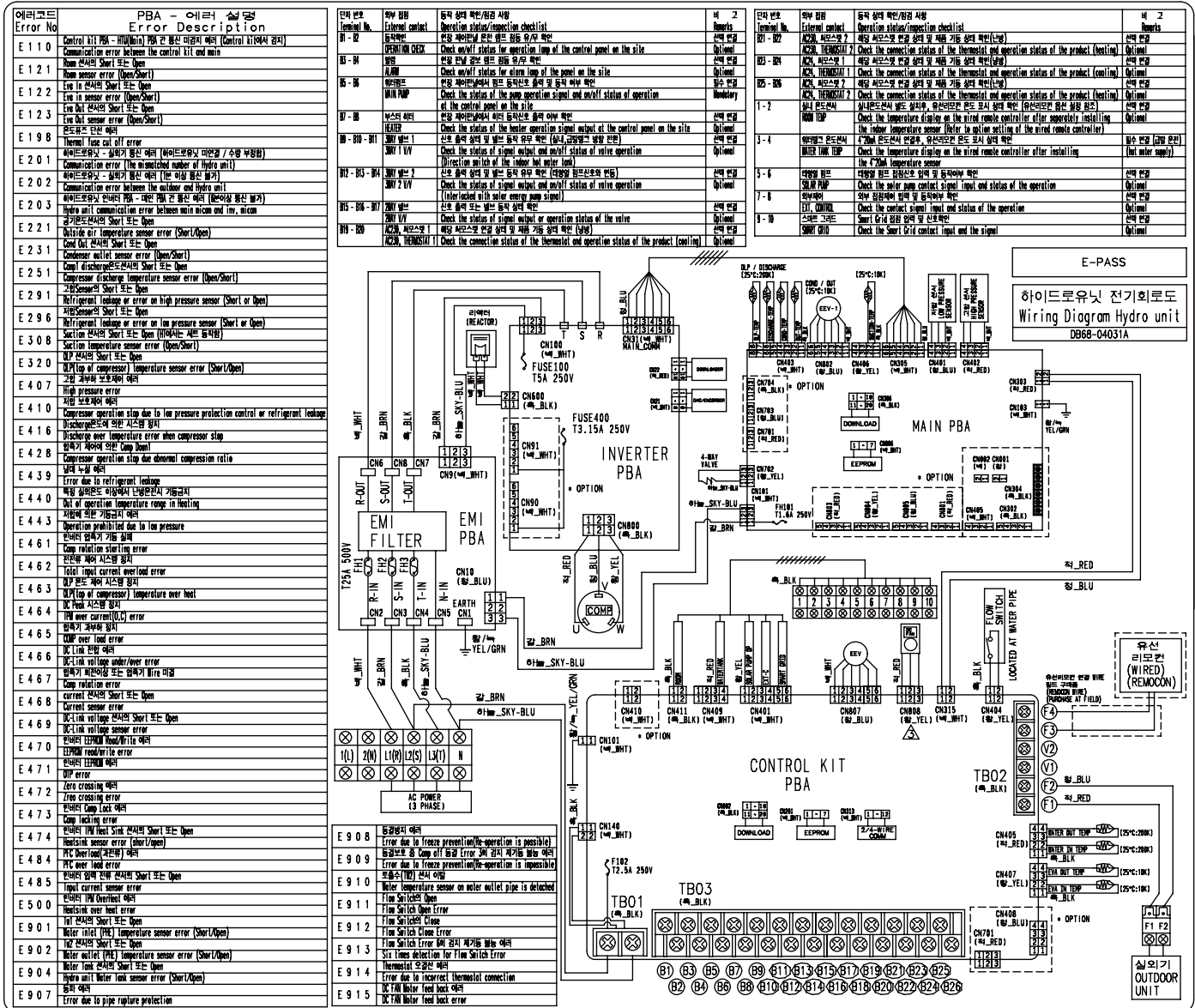
NOTE

- 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 remotecontroller transmission F3-F4.
- ⊕: Protective earth(screw), □: Connector, n: The wire quantity

5 Electrical Wiring Diagram

Hydro Unit HT

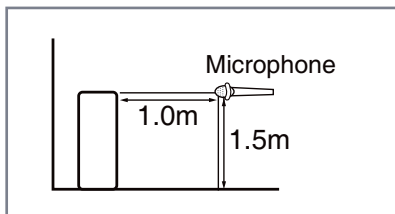
AM160/250FNBFGB/EU



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.

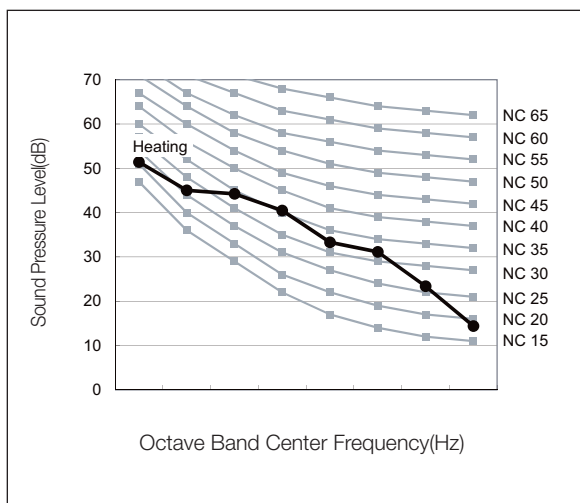
Sound pressure level may differ depending on operation condition.

dBA = A-weighted sound pressure level

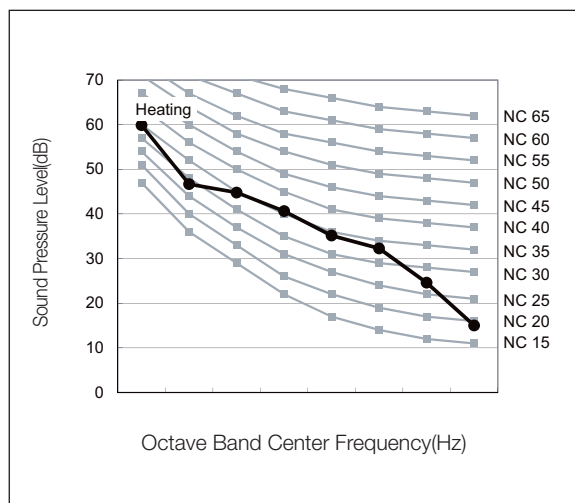
Reference acoustic pressure 0 dB= 20 uPa

2) NC curves

(1) AM160FNBFEB***



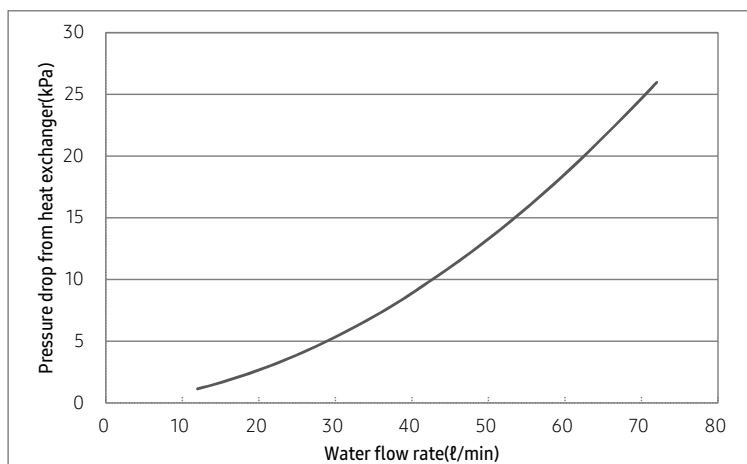
(2) AM250FNBFEB***



7 Hydraulic performance

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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