

SAMSUNG

VRF

Technical Data Book

**DVM S Eco for Europe
(R410A, 50Hz, HR)**



Model : AM***BXMD*R/EU

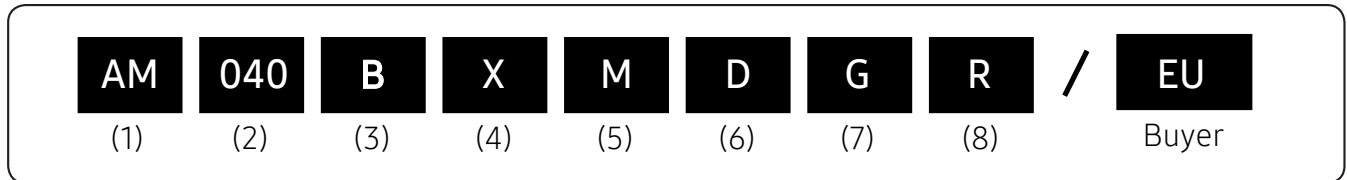
History

Version	Modification	Date	Remark
Ver.1.0	Released DVM S Eco HR TDB for Europe	'22. 04. 13	
Ver.1.1	Modified some error	'22. 11. 28	

Nomenclature

Outdoor Unit

Model Name



(1) Classification

AM	DVM
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(5) Product Notation

M	DVM S Eco
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(2) Capacity

x 1/10 HP (3 digits)

(6) Feature

A	Standard + General Temp.+ MODULE
H	High EER + Low Temp + Module
D	STANDARD+GENERAL Temp. + NON MODULE

(3) Year

B	2022
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(7) Rating Voltage

E	1Ø, 220~240V, 50Hz
G	3Ø, 380~415V, 50Hz
H	3Ø, 380V, 60Hz

(4) Product Type

X	Outdoor Unit
N	Indoor Unit

(8) Mode

H	Heat Pump
R	Heat Recovery

Features & Benefits

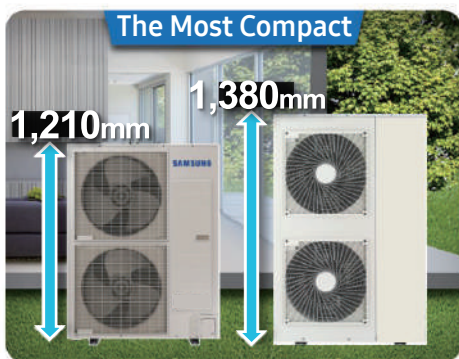
Simultaneous cooling & heating



- Individual temperature control for residential & Small hotel

The Most Compact & Easy Installation

- Convenient installation and service thanks to 4 way direction installation
 - Flexible installation with Front, Side, Bottom and Back Piping



* 6HP



High Efficiency

- Top tier Energy Efficiency among the side discharge VRF




DVM S Eco HR	4HP	5HP	6HP
EER	4.5	4.11	3.75
COP	4.8	4.7	4.45

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1. Line up

Outdoor units

Capacity (HP)		4	5	6
Shape				
Model	1phase	AM040BXMDER/EU	AM050BXMDER/EU	AM060BXMDER/EU
	3phase	AM040BXMDGR/EU	AM050BXMDGR/EU	AM060BXMDGR/EU

2. Specification

Outdoor units

Type			DVM S Eco	DVM S Eco		
Model Name			AM040BXMDER/EU	AM040BXMDGR/EU		
Power Supply		Φ, #, V, Hz	2,2,220~240,50	3,4,380~415,50		
Mode			HEAT RECOVERY	HEAT RECOVERY		
Performance	HP	HP	4	4		
	Capacity (Rated)	Cooling	kW	12.1	12.1	
		Heating	kW	12.1	12.1	
		Heating (Max.)	kW	13.5	13.5	
Maximum number of connectable indoor units		EA	8	8		
Total capacity of the connected indoor units		Min.	kW	6.00	6.00	
		Max.	kW	15.70	15.70	
Power	Power Input	Cooling	kW	3.87	3.87	
		Heating		3.04	3.04	
		Heating (Max.)		3.70	3.70	
	Current Input	Cooling	A	17.7	5.9	
		Heating		13.9	4.6	
		Heating (Max.)		16.9	5.6	
	Minimum Ssc		MVA	Equipment complying with IEC61000-3-12		
MCA		A	22.0	16.1		
MFA (MOP)		A	25.0	20.0		
Energy Efficiency	Nominal Cooling		W/W	3.13	3.13	
	Nominal Heating		W/W	3.98	3.98	
	Nominal Heating (Max.)		W/W	3.65	3.65	
	Ducted	SEER	W/W	7.30	7.30	
			SCOP	W/W	4.60	4.60
			ηs,c	%	289.0	289.0
			ηs,h	%	181.0	181.0
	Non_Ducted	SEER	W/W	7.90	7.90	
			SCOP	W/W	4.65	4.65
			ηs,c	%	313.0	313.0
ηs,h			%	183.0	183.0	
Pdesignh		kW	7.00	7.00		
Casing	Material	Body	-	GI Steel Plate	GI Steel Plate	
		Base	-	GI Steel Plate	GI Steel Plate	
Heat exchanger	Type		-	Fin & Tube	Fin & Tube	
	Material	Fin	-	Al	Al	
		Tube	-	Cu	Cu	
Fin Treatment		-	Anti-corrosion	Anti-corrosion		
Compressor	Type		-	Twin BLDC Rotary	Twin BLDC Rotary	
	Output		kW × n	4.04 × 1	4.04 × 1	
	Model Name		-	UG5TK5450FJX x 1	UG5TK5450FJX x 1	
	Oil	Type	-	PVE	PVE	
Initial charge		cc × n	1,700	1,700		
Fan	Type		-	Propeller	Propeller	
	Output × n		W	-	-	
	Discharge direction		-	Horizontal	Horizontal	
	Quantity		-	2	2	
	Air Flow Rate		CMM	100	100	
			l/s	1,667	1,667	
External Static Pressure	Max.	mmAq	3.0	3.0		
		Pa	29.4	29.4		
Fan Motor	Type		-	BLDC Motor	BLDC Motor	
	Output × n		W × n	125 × 2	125 × 2	

2. Specification

Outdoor units

Type			DVM S Eco	DVM S Eco	
Model Name			AM040BXMDER/EU	AM040BXMDGR/EU	
Piping Connections	Liquid Pipe	Φ, mm	9.52	9.52	
		Φ, inch	3/8"	3/8"	
		Type	Braze Connection	Braze Connection	
		Φ, mm(inch)	9.52 (3/8")	9.52 (3/8")	
	Gas Pipe	Φ, mm	15.88	15.88	
		Φ, inch	5/8"	5/8"	
		Type	Braze Connection	Braze Connection	
		Φ, mm(inch)	15.88 (5/8")	15.88 (5/8")	
	Discharge Gas Pipe	Φ, mm	19.05	19.05	
		Φ, inch	3/4"	3/4"	
		Type	Braze Connection	Braze Connection	
		Φ, mm(inch)	19.05 (3/4")	19.05 (3/4")	
	Heat Insulation		-	liquid and gas and high pressure gas pipes	liquid and gas and high pressure gas pipes
	Piping length (ODU-IDU)	Max. [Equiv.]	m	150 (175)	150 (175)
Piping length (1st Branch-IDU)	Max.	m	40	40	
Total piping length (System)	Max.	m	300	300	
Level difference (ODU in highest position)	Max.	m	50	50	
Level difference (IDU in highest position)	Max.	m	40	40	
Level difference (IDU-IDU)	Max.	m	50	50	
Field Wiring	Transmission Cable	Min.	mm ²	0.75	
		Remark	-	F1, F2	
	Power supply intake			Both IDU&ODU	Both IDU&ODU
Refrigerant	Type		-	R410A	
	Factory Charging	kg	3.2	3.2	
		tCO ₂ e	6.68	6.68	
Sound	Sound Pressure	Cooling	dB(A)	51	
		Heating		55	
	Sound Power			68	
External Dimension	Net Weight		kg	97	
	Shipping Weight		kg	107	
	Net Dimensions (WxHxD)		mm	940 x 1,210 x 330	
	Shipping Dimensions (WxHxD)		mm	995 x 1,388 x 426	
Operating Temp. Range	Cooling		°C	-5.0 ~ 48.0 °C	
	Heating		°C	-25.0 ~ 26.0 °C	

NOTE

- Specifications may be subject to change without prior notice.
 - Cooling capacities are based on;
 - Indoor temperature: 27°C DB, 19°C WB
 - Outdoor temperature: 35°C DB, 24°C WB, Equivalent refrigerant piping : 75m, Level differences : 0m
 - Heating capacities are based on;
 - Indoor temperature: 20°C DB, 15°C WB
 - Outdoor temperature: 7°C DB, 6°C WB, Equivalent refrigerant piping : 75m, Level differences : 0m
 - Select wire size based on the value of MCA
 - Sound power level is an absolute value that a sound source generates.
Sound pressure level is a relative value, depending on the distance and acoustic environment. Sound values are obtained in an anechoic room.
Sound values of multi combination are theoretical values based on sound results of individual installed units.
 - These products contain R410A(GWP=2,088) which is fluorinated greenhouse gas.
- Recommended combination

* Casstte

Capacity	Indoor combination
4HP	3x AM028AN4PKH + 1x AM036AN4PKH
5HP	4x AM036AN4PKH
6HP	2x AM036AN4PKH + 2x AM045AN4PKH

* Ducted

Capacity	Indoor combination
4HP	3x AM028ANMPKH + 1x AM036ANMPKH
5HP	4x AM036ANMPKH
6HP	2x AM036ANMPKH + 2x AM045ANMPKH

2. Specification

Outdoor units

Type				DVM S Eco	DVM S Eco	
Model Name				AM050BXMDER/EU	AM050BXMDGR/EU	
Power Supply			Φ, #, V, Hz	2,2,220~240,50	3,4,380~415,50	
Mode				HEAT RECOVERY	HEAT RECOVERY	
Performance	HP		HP	5	5	
	Capacity (Rated)	Cooling	kW	14.0	14.0	
		Heating	kW	14.0	14.0	
		Heating (Max.)	kW	16.0	16.0	
Maximum number of connectable indoor units			EA	9	9	
Total capacity of the connected indoor units			Min.	kW	7.00	7.00
			Max.	kW	18.20	18.20
Power	Power Input	Cooling	kW	5.00	5.00	
		Heating		3.83	3.83	
		Heating (Max.)		4.86	4.86	
	Current Input	Cooling	A	22.9	7.6	
		Heating		17.5	5.8	
		Heating (Max.)		22.2	7.4	
	Minimum Ssc			MVA	Equipment complying with IEC61000-3-12	
MCA			A	24.0	16.1	
MFA (MOP)			A	32.0	20.0	
Energy Efficiency	Nominal Cooling		W/W	2.80	2.80	
	Nominal Heating		W/W	3.66	3.66	
	Nominal Heating (Max.)		W/W	3.29	3.29	
	Ducted		SEER	W/W	7.05	7.05
			SCOP	W/W	4.70	4.70
			ηs,c	%	279.0	279.0
			ηs,h	%	185.0	185.0
	Non_Ducted		SEER	W/W	7.40	7.40
			SCOP	W/W	4.65	4.65
			ηs,c	%	293.0	293.0
ηs,h			%	183.0	183.0	
Pdesignh		kW	7.50	7.50		
Casing	Material	Body	-	GI Steel Plate	GI Steel Plate	
		Base	-	GI Steel Plate	GI Steel Plate	
Heat exchanger	Type		-	Fin & Tube	Fin & Tube	
	Material	Fin	-	Al	Al	
		Tube	-	Cu	Cu	
Fin Treatment			-	Anti-corrosion	Anti-corrosion	
Compressor	Type		-	Twin BLDC Rotary	Twin BLDC Rotary	
	Output		kW × n	4.04 × 1	4.04 × 1	
	Model Name			-	UG5TK5450FJX x 1	UG5TK5450FJX x 1
	Oil	Type		-	PVE	PVE
Initial charge			cc × n	1,700	1,700	
Fan	Type		-	Propeller	Propeller	
	Output × n		W	-	-	
	Discharge direction			-	Horizontal	Horizontal
	Quantity			-	2	2
	Air Flow Rate			CMM	100	100
				l/s	1,667	1,667
	External Static Pressure	Max.		mmAq	3.0	3.0
			Pa	29.4	29.4	
Fan Motor	Type		-	BLDC Motor	BLDC Motor	
	Output × n		W × n	125 × 2	125 × 2	

2. Specification

Outdoor units

Type			DVM S Eco	DVM S Eco	
Model Name			AM050BXMDER/EU	AM050BXMDGR/EU	
Piping Connections	Liquid Pipe	Φ, mm	9.52	9.52	
		Φ, inch	3/8"	3/8"	
		Type	Braze Connection	Braze Connection	
		Φ, mm(inch)	9.52 (3/8")	9.52 (3/8")	
	Gas Pipe	Φ, mm	15.88	15.88	
		Φ, inch	5/8"	5/8"	
		Type	Braze Connection	Braze Connection	
		Φ, mm(inch)	15.88 (5/8")	15.88 (5/8")	
	Discharge Gas Pipe	Φ, mm	19.05	19.05	
		Φ, inch	3/4"	3/4"	
		Type	Braze Connection	Braze Connection	
		Φ, mm(inch)	19.05 (3/4")	19.05 (3/4")	
	Heat Insulation		-	liquid and gas and high pressure gas pipes	liquid and gas and high pressure gas pipes
	Piping length (ODU-IDU)	Max. [Equiv.]	m	150 (175)	150 (175)
Piping length (1st Branch-IDU)	Max.	m	40	40	
Total piping length (System)	Max.	m	300	300	
Level difference (ODU in highest position)	Max.	m	50	50	
Level difference (IDU in highest position)	Max.	m	40	40	
Level difference (IDU-IDU)	Max.	m	50	50	
Field Wiring	Transmission Cable	Min.	mm ²	0.75	
		Remark	-	F1, F2	
	Power supply intake			Both IDU&ODU	Both IDU&ODU
Refrigerant	Type		-	R410A	
	Factory Charging	kg	3.2	3.2	
		tCO _{2e}	6.68	6.68	
Sound	Sound Pressure	Cooling	dB(A)	52	
		Heating		55	
	Sound Power			69	
External Dimension	Net Weight		kg	97	
	Shipping Weight		kg	107	
	Net Dimensions (WxHxD)		mm	940 x 1,210 x 330	
	Shipping Dimensions (WxHxD)		mm	995 x 1,388 x 426	
Operating Temp. Range	Cooling		°C	-5.0 ~ 48.0 °C	
	Heating		°C	-25.0 ~ 26.0 °C	

NOTE

- Specifications may be subject to change without prior notice.
 - Cooling capacities are based on;
 - Indoor temperature: 27°C DB, 19°C WB
 - Outdoor temperature: 35°C DB, 24°C WB, Equivalent refrigerant piping : 75m, Level differences : 0m
 - Heating capacities are based on;
 - Indoor temperature: 20°C DB, 15°C WB
 - Outdoor temperature: 7°C DB, 6°C WB, Equivalent refrigerant piping : 75m, Level differences : 0m
 - Select wire size based on the value of MCA
 - Sound power level is an absolute value that a sound source generates.
Sound pressure level is a relative value, depending on the distance and acoustic environment. Sound values are obtained in an anechoic room.
Sound values of multi combination are theoretical values based on sound results of individual installed units.
 - These products contain R410A (GWP=2,088) which is fluorinated greenhouse gas.
- Recommended combination

* Casstte

Capacity	Indoor combination
4HP	3x AM028AN4PKH + 1x AM036AN4PKH
5HP	4x AM036AN4PKH
6HP	2x AM036AN4PKH + 2x AM045AN4PKH

* Ducted

Capacity	Indoor combination
4HP	3x AM028ANMPKH + 1x AM036ANMPKH
5HP	4x AM036ANMPKH
6HP	2x AM036ANMPKH + 2x AM045ANMPKH

2. Specification

Outdoor units

Type				DVM S Eco	DVM S Eco	
Model Name				AM060BXMDER/EU	AM060BXMDGR/EU	
Power Supply			Φ, #, V, Hz	2,2,220~240,50	3,4,380~415,50	
Mode				HEAT RECOVERY	HEAT RECOVERY	
Performance	HP		HP	6	6	
	Capacity(Rated)	Cooling	kW	15.5	15.5	
		Heating	kW	15.5	15.5	
		Heating (Max.)	kW	18.0	18.0	
Maximum number of connectable indoor units			EA	10	10	
Total capacity of the connected indoor units			Min.	kW	7.80	7.80
			Max.	kW	20.20	20.20
Power	Power Input	Cooling	kW	5.74	5.74	
		Heating		4.43	4.43	
		Heating (Max.)		5.79	5.79	
	Current Input	Cooling	A	26.3	8.7	
		Heating		20.3	6.7	
		Heating (Max.)		26.5	8.8	
	Minimum Ssc			MVA	Equipment complying with IEC61000-3-12	
MCA			A	30.0	16.1	
MFA (MOP)			A	40.0	20.0	
Energy Efficiency	Nominal Cooling		W/W	2.70	2.70	
	Nominal Heating		W/W	3.50	3.50	
	Nominal Heating (Max.)		W/W	3.11	3.11	
	Ducted	SEER	W/W	7.20	7.20	
			SCOP	W/W	4.90	4.90
			ηs,c	%	285.0	285.0
			ηs,h	%	193.0	193.0
	Non_Ducted	SEER	W/W	7.75	7.75	
			SCOP	W/W	4.90	4.90
			ηs,c	%	307.0	307.0
ηs,h			%	193.0	193.0	
Pdesignh		kW	8.00	8.00		
Casing	Material	Body	-	GI Steel Plate	GI Steel Plate	
		Base	-	GI Steel Plate	GI Steel Plate	
Heat exchanger	Type		-	Fin & Tube	Fin & Tube	
	Material	Fin	-	Al	Al	
		Tube	-	Cu	Cu	
Fin Treatment			-	Anti-corrosion	Anti-corrosion	
Compressor	Type		-	Twin BLDC Rotary	Twin BLDC Rotary	
	Output		kW × n	4.04 × 1	4.04 × 1	
	Model Name			-	UG5TK5450FJX x 1	UG5TK5450FJX x 1
	Oil	Type		-	PVE	PVE
		Initial charge	cc × n		1,700	1,700
Fan	Type		-	Propeller	Propeller	
	Output × n		W	-	-	
	Discharge direction			-	Horizontal	Horizontal
	Quantity			-	2	2
	Air Flow Rate		CMM		100	100
			l/s		1,667	1,667
	External Static Pressure	Max.	mmAq		3.0	3.0
Pa				29.4	29.4	
Fan Motor	Type		-	BLDC Motor	BLDC Motor	
	Output × n		W × n	125 × 2	125 × 2	

2. Specification

Outdoor units

Type			DVM S Eco	DVM S Eco	
Model Name			AM060BXMDER/EU	AM060BXMDGR/EU	
Piping Connections	Liquid Pipe	Φ, mm	9.52	9.52	
		Φ, inch	3/8"	3/8"	
		Type	Braze Connection	Braze Connection	
		Φ, mm(inch)	9.52 (3/8")	9.52 (3/8")	
	Gas Pipe	Φ, mm	15.88	15.88	
		Φ, inch	5/8"	5/8"	
		Type	Braze Connection	Braze Connection	
		Φ, mm(inch)	15.88 (5/8")	15.88 (5/8")	
	Discharge Gas Pipe	Φ, mm	19.05	19.05	
		Φ, inch	3/4"	3/4"	
		Type	Braze Connection	Braze Connection	
		Φ, mm(inch)	19.05 (3/4")	19.05 (3/4")	
	Heat Insulation		-	liquid and gas and high pressure gas pipes	liquid and gas and high pressure gas pipes
	Piping length (ODU-IDU)	Max. [Equiv.]	m	150 (175)	150 (175)
Piping length (1st Branch-IDU)	Max.	m	40	40	
Total piping length (System)	Max.	m	300	300	
Level difference (ODU in highest position)	Max.	m	50	50	
Level difference (IDU in highest position)	Max.	m	40	40	
Level difference (IDU-IDU)	Max.	m	50	50	
Field Wiring	Transmission Cable	Min.	mm ²	0.75	
		Remark	-	F1, F2	
	Power supply intake			Both IDU&ODU	Both IDU&ODU
Refrigerant	Type		-	R410A	
	Factory Charging	kg	3.3	3.3	
		tCO _{2e}	6.89	6.89	
Sound	Sound Pressure	Cooling	dB(A)	53	
		Heating		55	
	Sound Power			70	70
External Dimension	Net Weight		kg	100	98
	Shipping Weight		kg	110	108
	Net Dimensions (WxHxD)		mm	940 x 1,210 x 330	940 x 1,210 x 330
	Shipping Dimensions (WxHxD)		mm	995 x 1,388 x 426	995 x 1,388 x 426
Operating Temp. Range	Cooling		°C	-5.0 ~ 48.0 °C	-5.0 ~ 48.0 °C
	Heating		°C	-25.0 ~ 26.0 °C	-25.0 ~ 26.0 °C

NOTE

- Specifications may be subject to change without prior notice.
 - Cooling capacities are based on;
 - Indoor temperature: 27°C DB, 19°C WB
 - Outdoor temperature: 35°C DB, 24°C WB, Equivalent refrigerant piping : 75m, Level differences : 0m
 - Heating capacities are based on;
 - Indoor temperature: 20°C DB, 15°C WB
 - Outdoor temperature: 7°C DB, 6°C WB, Equivalent refrigerant piping : 75m, Level differences : 0m
 - Select wire size based on the value of MCA
 - Sound power level is an absolute value that a sound source generates.
Sound pressure level is a relative value, depending on the distance and acoustic environment. Sound values are obtained in an anechoic room.
Sound values of multi combination are theoretical values based on sound results of individual installed units.
 - These products contain R410A (GWP=2,088) which is fluorinated greenhouse gas.
- Recommended combination

* Casette

Capacity	Indoor combination
4HP	3x AM028AN4PKH + 1x AM036AN4PKH
5HP	4x AM036AN4PKH
6HP	2x AM036AN4PKH + 2x AM045AN4PKH

* Ducted

Capacity	Indoor combination
4HP	3x AM028ANMPKH + 1x AM036ANMPKH
5HP	4x AM036ANMPKH
6HP	2x AM036ANMPKH + 2x AM045ANMPKH

3. Electrical Characteristics

Capacity		Model	Power Supply				Voltage Range		Running Current [A]		Current [A]		ODU Fan Motor
HP	KW		Φ	#	Hz	Voltage	Min. (-10%)	Max. (+10%)	Cooling	Heating	MCA	MFA	kW
4	12.1	AM040BXMDER/EU	1	2	50	220~240	198	264	17.7	13.9	22.0	25.0	0.25
4	12.1	AM040BXMDGR/EU	3	4	50	380~415	342	456	5.9	4.6	16.1	20.0	0.25
5	14	AM050BXMDER/EU	1	2	50	220~240	198	264	22.9	17.5	24.0	32.0	0.25
5	14	AM050BXMDGR/EU	3	4	50	380~415	342	456	7.6	5.8	16.1	20.0	0.25
6	15.5	AM060BXMDER/EU	1	2	50	220~240	198	264	26.3	20.3	30.0	40.0	0.25
6	15.5	AM060BXMDGR/EU	3	4	50	380~415	342	456	8.7	6.7	16.1	20.0	0.25

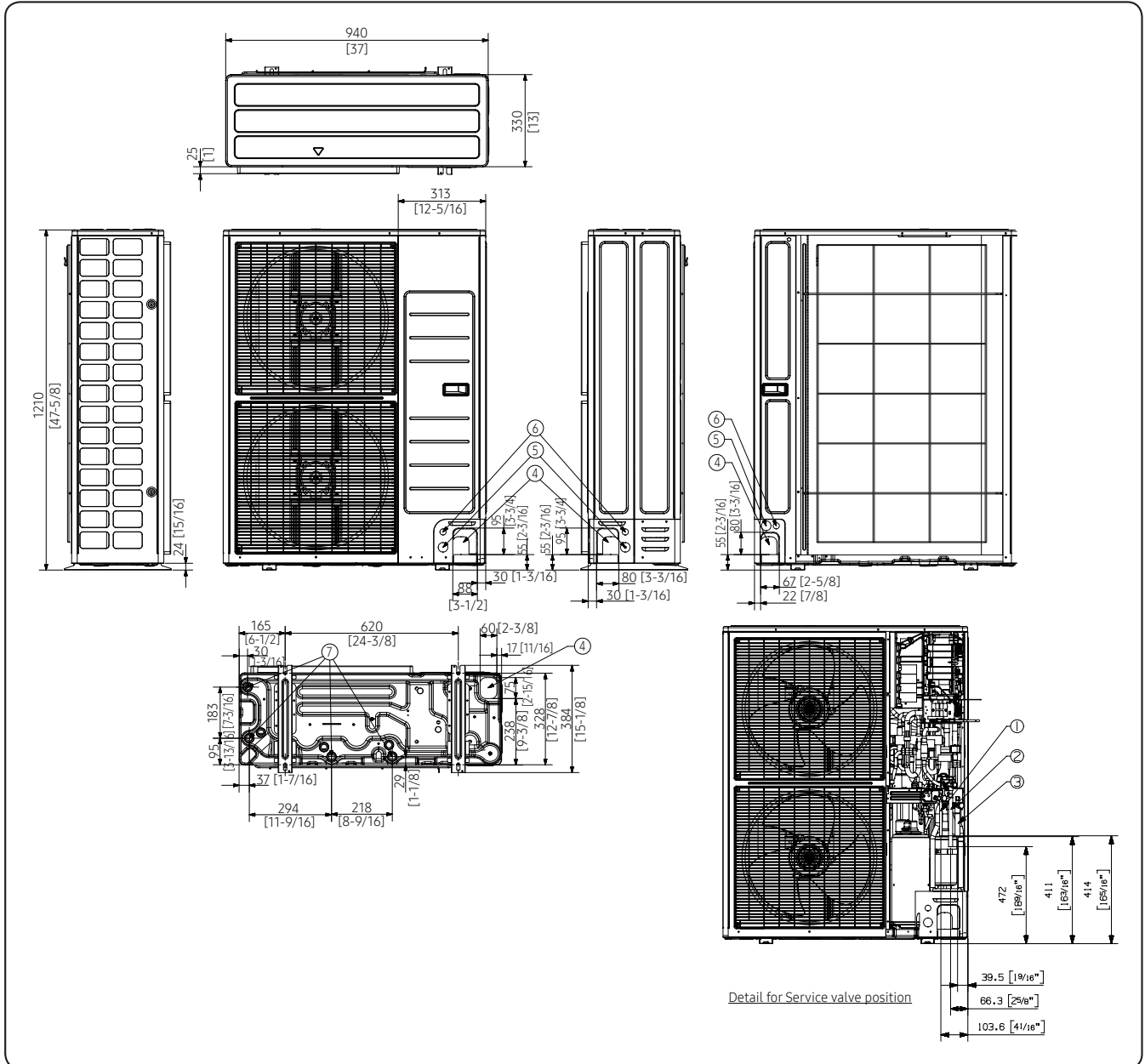
 **NOTE**

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

4. Dimensional Drawing

AM040BXMD*R/EU, AM05BNXMD*R/EU, AM060BXMD*R/EU

Units : mm [inches]

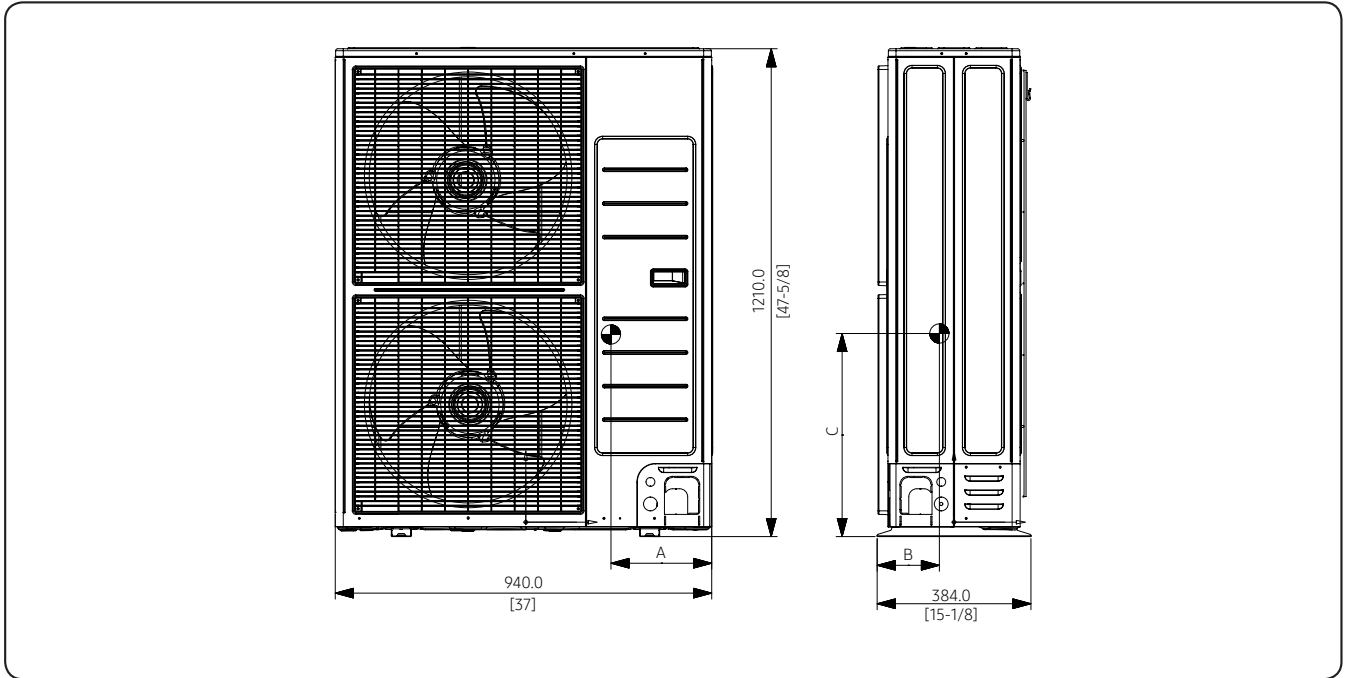


NO	Name	Description
1	Refrigerant liquid pipe	Φ9.52 (Φ3/8)
2	Refrigerant High pressure gas pipe	Φ15.88 (Φ5/8)
3	Refrigerant Low pressure gas pipe	Φ19.05 (Φ3/4)
4	Knockout hole for pipe intake	Front / Side / Rear / Bottom
5	Power wiring conduits	Front / Side / Rear, Φ34 (Φ1-3/8)
6	Communication wiring conduits	Front / Side / Rear, Φ22 (Φ7/8)
7	Drain holes	Connect with the provided drain plug.

5. Center of Gravity

AM040BXMD*R/EU, AM050BXMD*R/EU, AM060BXMD*R/EU

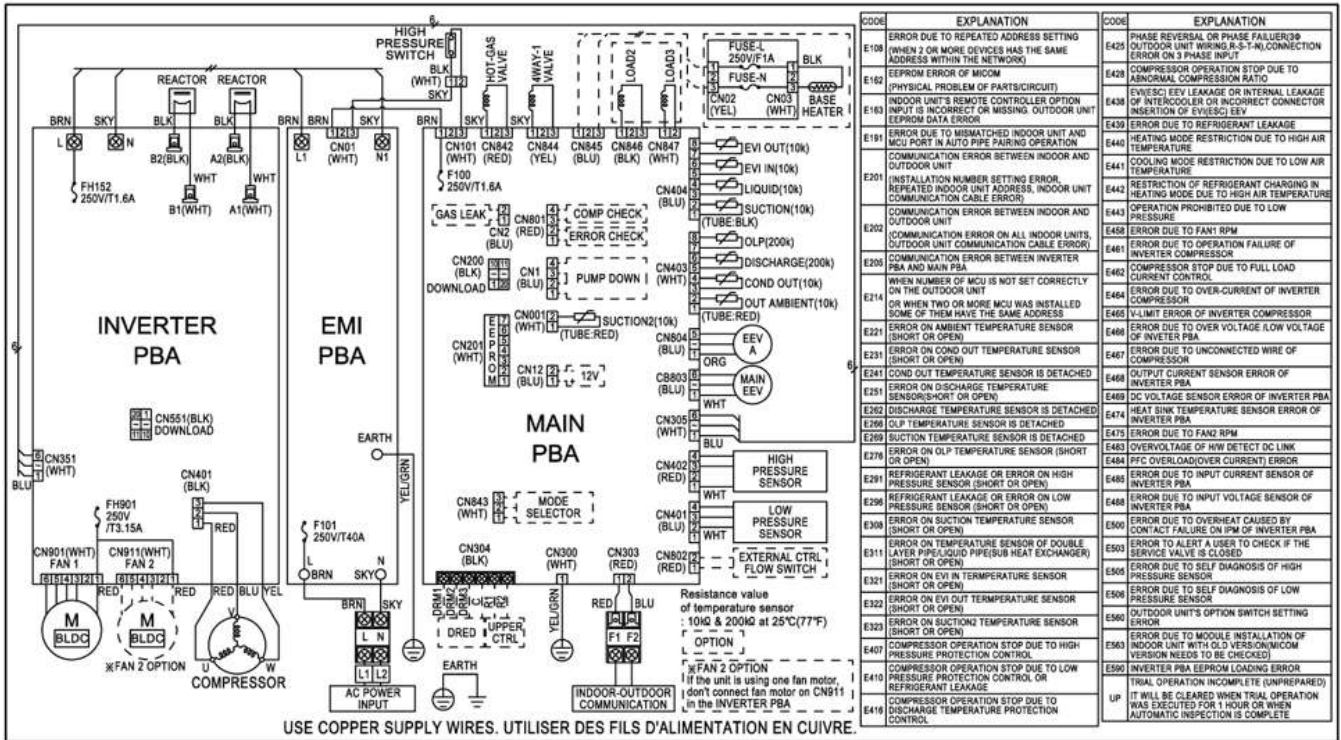
Units : mm [inches]



Model	A	B	C
AM040BXMD*R/EU	372 [14-5/8]	165 [6-1/2]	557 [21-15/16]
AM050BXMD*R/EU	372 [14-5/8]	165 [6-1/2]	557 [21-15/16]
AM060BXMD*R/EU	375 [14-3/4]	172 [6-3/4]	557 [21-15/16]

6. Electrical Wiring Diagram

AM***BXMDER/EU



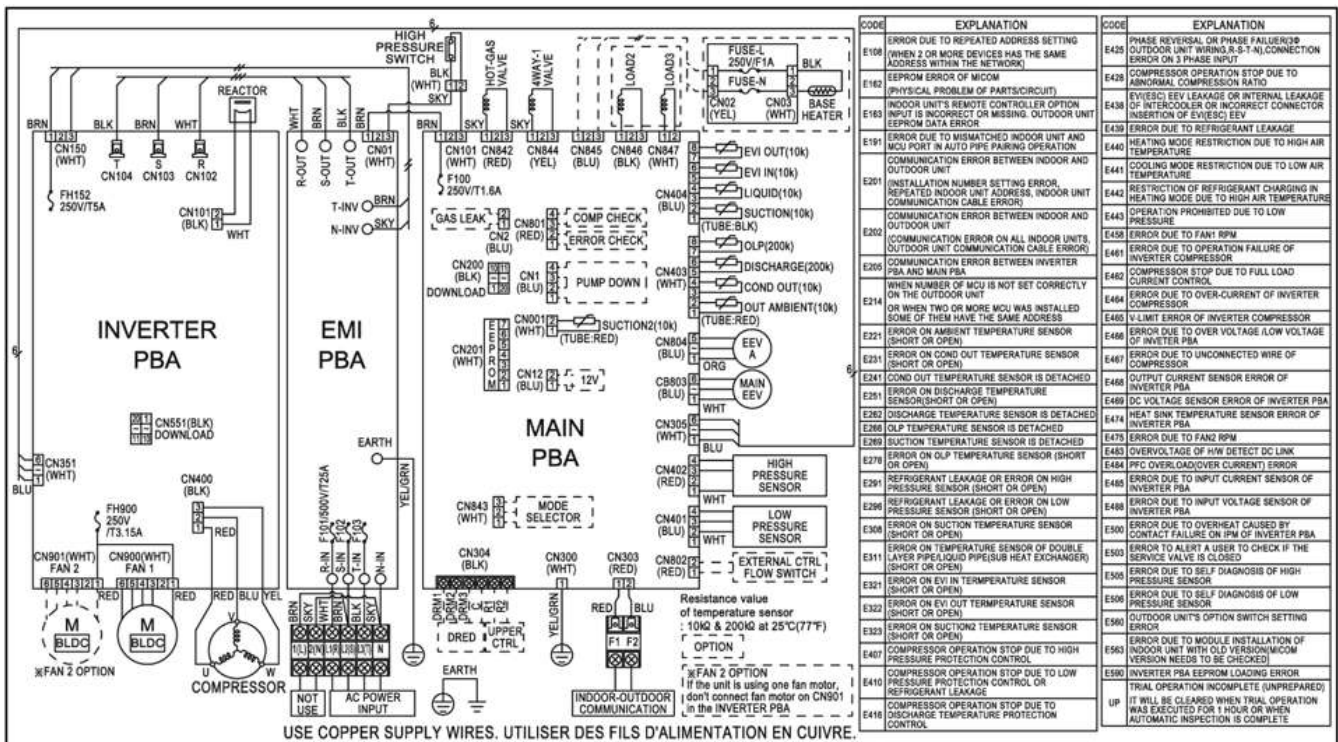
INV PBA1	Printed circuit board(inverter)	MAIN EEV	electronic expansion valve	LIQUID(10K)	Thermistor LIQUID(10K)
EMI PBA	Printed circuit board(emi)	EEV A	electronic expansion valve	OLP(200K)	Thermistor (OLP)
MAIN PBA	Printed circuit board(main)	EVI-OUT(10K)	Thermistor (Enhanced Vapor Injection_out)	ERROR/COMP EXT	Connector (Output ERROR/COMP EXT CON)
HOTGAS1 V/V	Solenoid valve(HOTGAS1)	EVI-IN(10K)	Thermistor (Enhanced Vapor Injection_in)	HIGE PRESSURE	PRESSURE SENSOR
4WAY V/V	Solenoid valve(4WAY)	SUCTION1(10K)	Thermistor (SUCTION1)	LOW PRESSURE	PRESSURE SENSOR
COMP	Motor (compressor)	OUT(10K)	Thermistor (Air)	F1/F2	OUT TO INDOOR COMMUNICATION
M BLDC	BLDC Motor (fan1)	COND(10K)	Thermistor (COND.)		
M BLDC	BLDC Motor (fan2)	DIS1(200K)	Thermistor DIS1(200K)		
250V/T40A	FUSE(EMI PBA)	SUCTION2(10K)	Thermistor (SUCTION2)		

NOTE

- This wiring diagram applies only to the outdoor unit.
- Colors BLK: black, RED: red, BLU: blue, WHT: white, YEL: yellow, BRN: brown, SKY: skyblue
- When operating, don't shortcircuit the protection device (High Pressure switch)
- For connection wiring indoor-outdoor transmission F1-F2.
- Protective earth(SCREW), : connector, : The quantity

6. Electrical Wiring Diagram

AM***BXMDGR/EU



INV PBA1	Printed circuit board(inverter)	MAIN EEV	electronic expansion valve	LIQUID(10K)	Thermistor LIQUID(10K)
EMI PBA	Printed circuit board(emi)	EEV A	electronic expansion valve	OLP(200K)	Thermistor (OLP.)
MAIN PBA	Printed circuit board(main)	EV1-OUT(10K)	Thermistor (Enhanced Vapor Injection_out)	ERROR/COMP EXT	Connector (Output ERROR/COMP EXT CON)
HOTGAS1 V/V	Solenoid valve(HOTGAS1)	EV1-IN(10K)	Thermistor (Enhanced Vapor Injection_in)	HIGE PRESSURE	PRESSURE SENSOR
4WAY V/V	Solenoid valve(4WAY)	SUCTION1(10K)	Thermistor (SUCTION1)	LOW PRESSURE	PRESSURE SENSOR
COMP	Motor (compressor)	OUT(10K)	Thermistor (Air)	F1/F2	OUT TO INDOOR COMMUNICATION
M BLDC	BLDC Motor (fan1)	COND(10K)	Thermistor (COND.)		
M BLDC	BLDC Motor (fan2)	DIS1(200K)	Thermistor DIS1(200K)		
500V/T25A	FUSE(EMI PBA)	SUCTION2(10K)	Thermistor (SUCTION2)		

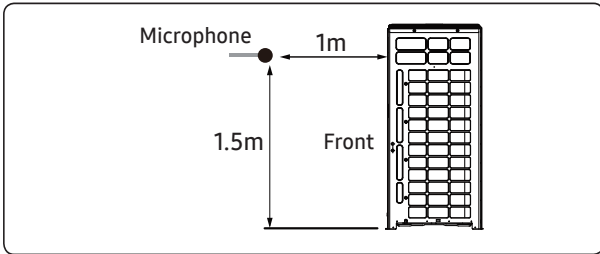
NOTE

- This wiring diagram applies only to the outdoor unit.
- Colors BLK: black, RED: red, BLU: blue, WHT: white, YEL: yellow, BRN: brown, SKY: skyblue
- When operating, don't shortcircuit the protection device (High Pressure switch)
- For connection wiring indoor-outdoor transmission F1-F2.
- Protective earth(SCREW), □□□ : connector, $\frac{N}{\times}$: The quantity

7. Sound Data

Sound Pressure level

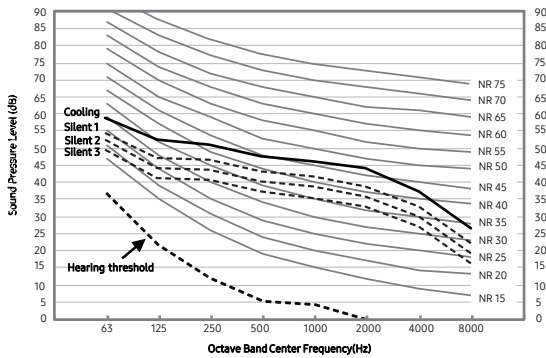
Unit: dB(A)



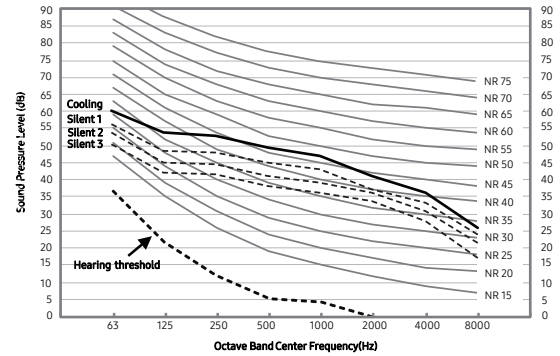
Model	Cooling	Silent 1	Silent 2	Silent 3
AM040BXMDER/EU	51	47	44	41
AM050BXMDER/EU	52	48	45	42
AM060BXMDER/EU	53	50	47	44
AM040BXMDGR/EU	51	47	44	41

- NR Curve

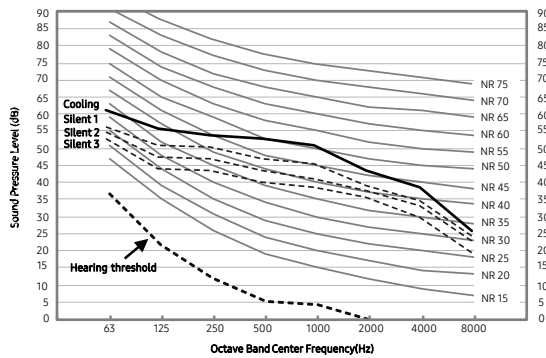
1) AM040BXMDER/EU



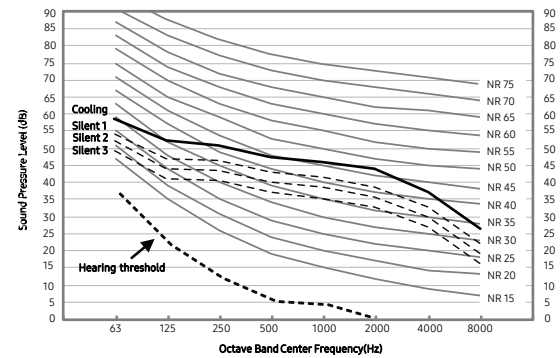
2) AM050BXMDER/EU



3) AM060BXMDER/EU



4) AM040BXMDGR/EU



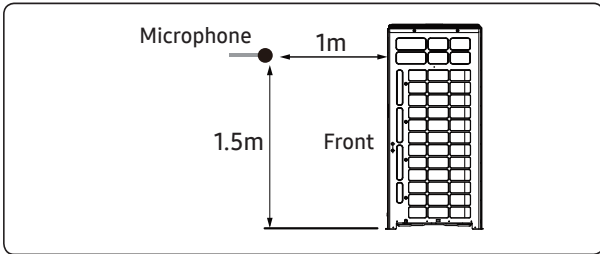
NOTE

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

7. Sound Data

Sound Pressure level

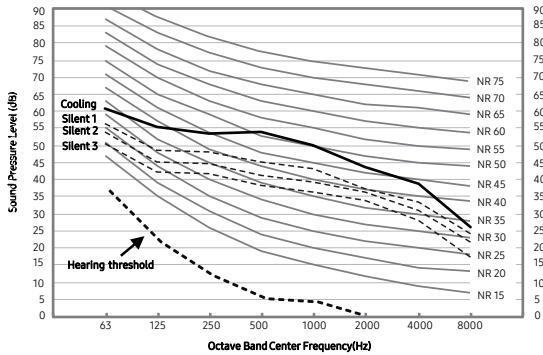
Unit: dB(A)



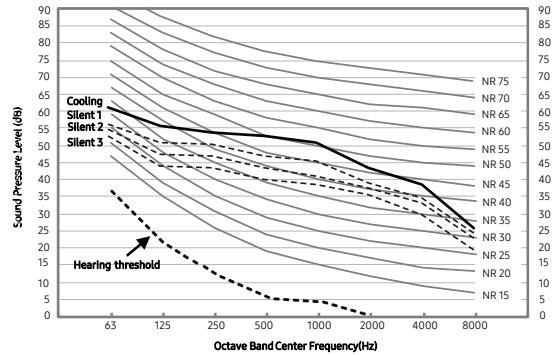
Model	Cooling	Silent 1	Silent 2	Silent 3
AM050BXMDGR/EU	52	48	45	42
AM060BXMDGR/EU	53	50	47	44

- NR Curve

5) AM050BXMDGR/EU



6) AM060BXMDGR/EU



NOTE

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

7. Sound Data

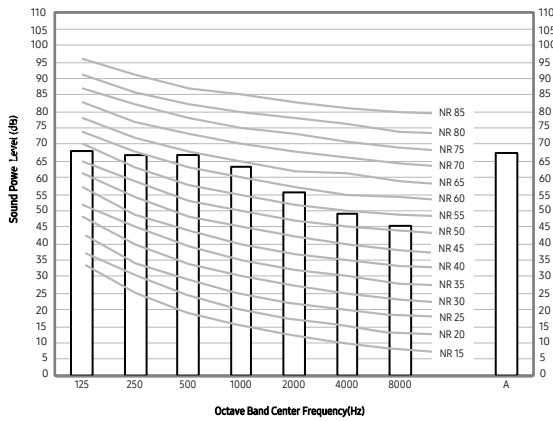
Sound Pressure level

Unit: dB(A)

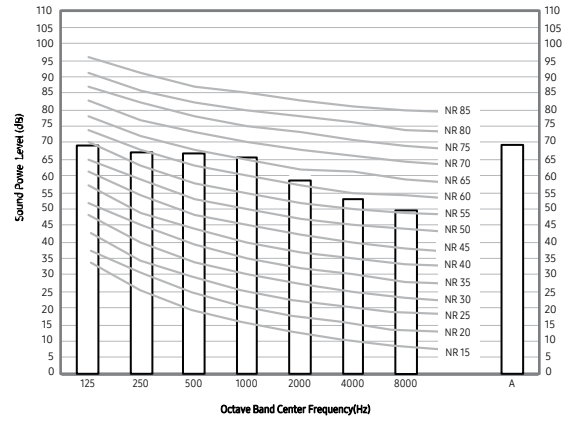
Model	Power
AM040BXMDER/EU	68
AM050BXMDER/EU	69
AM060BXMDER/EU	70
AM040BXMDGR/EU	68

- NR Curve

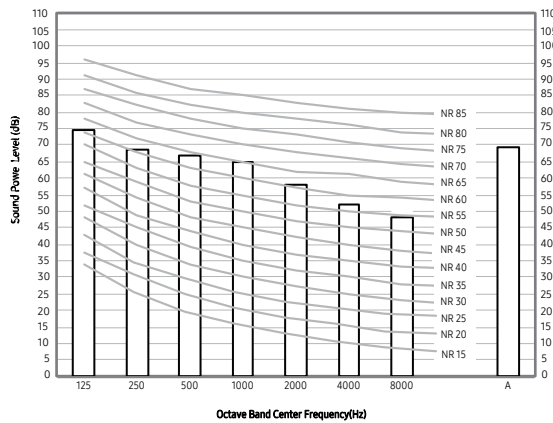
1) AM040BXMDER/EU



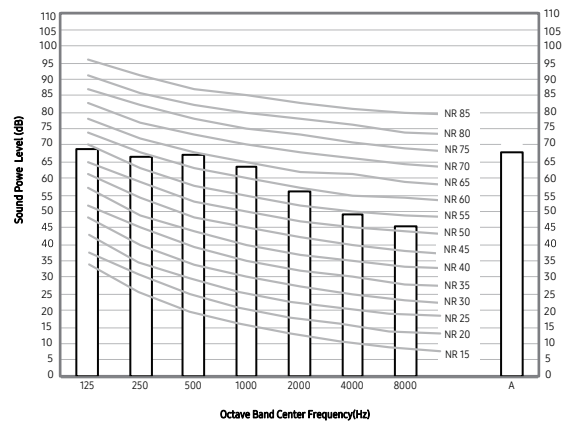
2) AM050BXMDER/EU



3) AM060BXMDER/EU



4) AM040BXMDGR/EU



NOTE

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

7. Sound Data

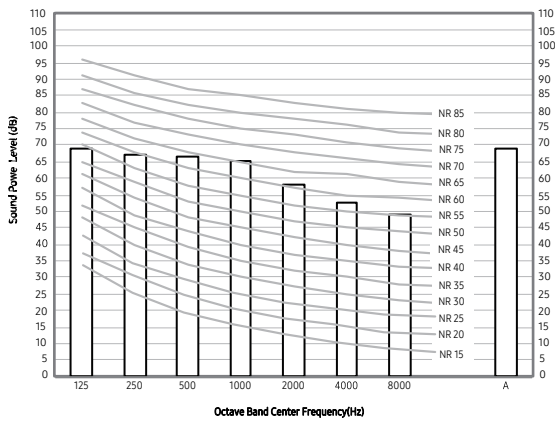
Sound Pressure level

Unit: dB(A)

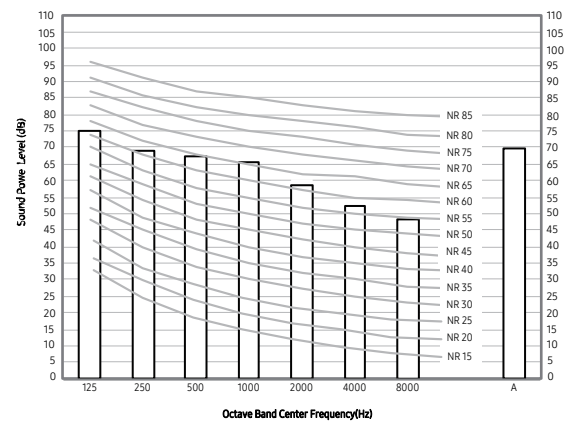
Model	Power
AM050BXMDGR/EU	69
AM060BXMDGR/EU	70

- NR Curve

5) AM050BXMDGR/EU



6) AM060BXMDGR/EU



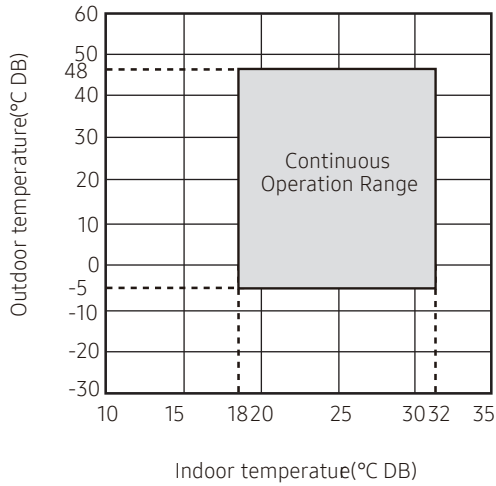
NOTE

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

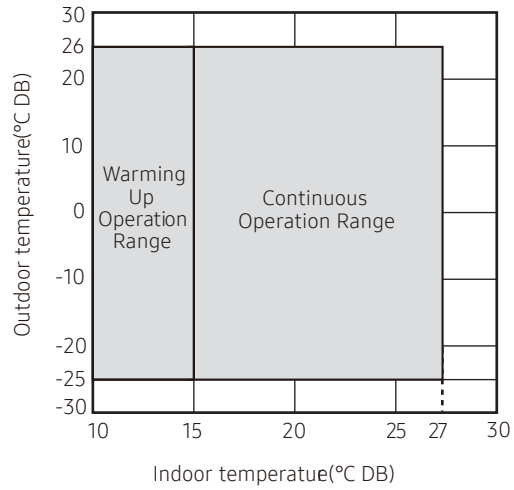
8. Operation Range

AM040BXMD*R/EU, AM050BXMD*R/EU, AM060BXMD*R/EU

Cooling



Heating

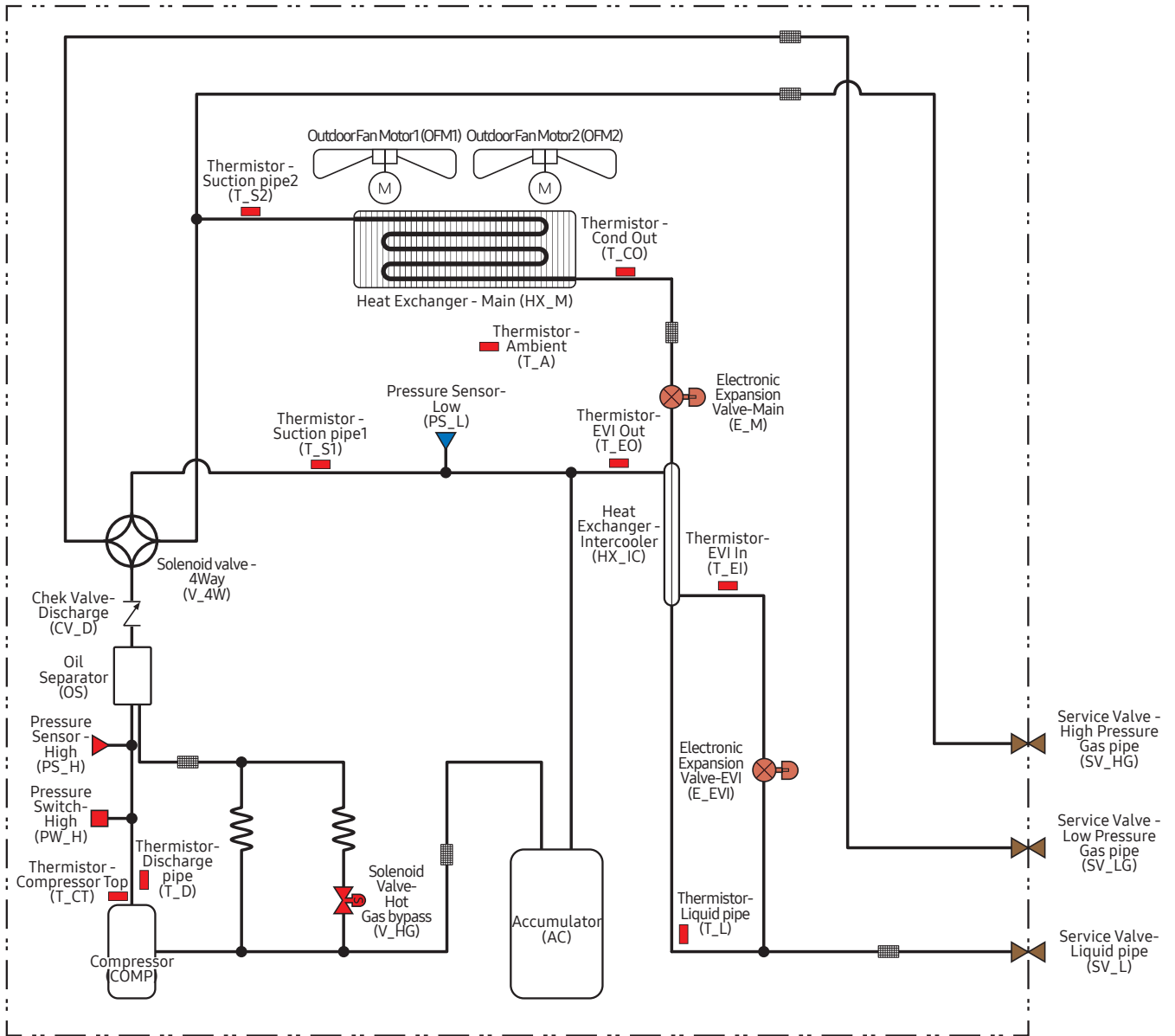


NOTE

- The standardized temperature for heating is 7°C DB. If the outdoor temperature drops to 0°C DB or below, the heating capacity can be reduced depending on the temperature condition.
- The use of the air conditioner at a relative humidity above the expected one (80%) may cause the formation of condensate and the leakage of water drops on the floor.

9. Piping Diagram

AM040BXMD*R/EU, AM050BXMD*R/EU, AM060BXMD*R/EU



10. Capacity Table

AM040BXMD*R

Cooling

TC : Total Capacity, PI : Power Input

Combination, % (Capacity index)	Outdoor temperature (°C, DB)	Indoor temperature (°C, WB)													
		14		16		18		19		20		22		24	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
50	10	3.90	0.40	4.80	0.49	5.60	0.60	6.10	0.66	6.40	0.72	7.10	0.84	7.90	0.97
	12	3.90	0.41	4.80	0.51	5.60	0.62	6.10	0.68	6.40	0.74	7.10	0.87	7.90	1.01
	14	3.90	0.42	4.80	0.53	5.60	0.65	6.10	0.71	6.40	0.78	7.10	0.91	7.90	1.06
	16	3.90	0.44	4.80	0.55	5.60	0.68	6.10	0.75	6.40	0.81	7.10	0.95	7.90	1.11
	18	3.90	0.46	4.80	0.58	5.60	0.71	6.10	0.78	6.40	0.85	7.10	1.00	7.90	1.17
	20	3.90	0.48	4.80	0.61	5.60	0.75	6.10	0.82	6.40	0.90	7.10	1.06	7.90	1.24
	21	3.90	0.50	4.80	0.62	5.60	0.77	6.10	0.85	6.40	0.92	7.10	1.09	7.90	1.27
	23	3.90	0.52	4.80	0.66	5.60	0.81	6.10	0.90	6.40	0.98	7.10	1.16	7.90	1.35
	25	3.90	0.55	4.80	0.70	5.60	0.86	6.10	0.95	6.40	1.04	7.10	1.23	7.90	1.45
	27	3.90	0.59	4.80	0.74	5.60	0.92	6.10	1.02	6.40	1.11	7.10	1.32	7.90	1.55
	29	3.90	0.63	4.80	0.79	5.60	0.98	6.10	1.09	6.40	1.19	7.10	1.41	7.90	1.66
	31	3.90	0.67	4.80	0.85	5.60	1.06	6.10	1.17	6.40	1.28	7.10	1.52	7.90	1.78
	33	3.90	0.72	4.80	0.91	5.60	1.13	6.10	1.25	6.40	1.37	7.10	1.63	7.90	1.92
	35	3.90	0.77	4.80	0.98	5.60	1.22	6.10	1.35	6.40	1.48	7.10	1.76	7.90	2.07
	37	3.90	0.83	4.80	1.06	5.60	1.32	6.10	1.46	6.40	1.60	7.10	1.90	7.90	2.23
	39	3.90	0.89	4.80	1.14	5.60	1.42	6.10	1.57	6.40	1.72	7.10	2.05	7.90	2.41
43	3.90	1.04	4.80	1.33	5.60	1.66	6.10	1.83	6.40	2.01	7.10	2.39	7.90	2.81	
46	3.90	1.17	4.80	1.49	5.60	1.86	6.00	2.05	6.30	2.23	6.90	2.63	7.50	3.03	
48	3.80	1.26	4.60	1.61	5.30	2.00	5.70	2.19	6.00	2.37	6.50	2.64	6.80	2.92	

NOTE

- The performance table shows the average value of each conditions.

10. Capacity Table

AM040BXMD*R

Heating

TC : Total Capacity, PI : Power Input

Combination, % (Capacity index)	Outdoor temperature (°C, DB)		Indoor temperature (°C, DB)									
			16		18		20		22		24	
	DB	WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
130	-25.0	-25.1	10.50	3.25	10.20	3.57	10.00	3.71	9.70	4.02	9.40	4.31
	-22.0	-22.2	11.90	3.57	11.70	3.88	11.50	4.02	11.20	4.34	10.40	4.48
	-20.0	-20.2	12.90	3.78	12.70	4.09	12.40	4.24	12.00	4.55	10.90	4.55
	-17.0	-17.3	14.40	4.09	14.10	4.41	13.90	4.55	12.70	4.66	11.60	4.66
	-15.0	-15.3	15.30	4.31	15.10	4.62	14.40	4.69	13.20	4.73	12.10	4.73
	-12.0	-12.4	16.80	4.62	16.00	4.80	15.10	4.80	13.90	4.83	12.80	4.83
	-10.0	-10.5	17.50	4.83	16.50	4.87	15.60	4.87	14.40	4.90	13.30	4.90
	-7.0	-7.6	18.30	4.94	17.30	4.97	16.30	4.97	15.10	5.01	13.90	5.01
	-5.0	-5.6	18.50	5.01	17.50	5.01	16.50	5.01	15.30	5.01	14.10	5.01
	-3.0	-3.7	18.70	5.01	17.60	5.01	16.60	5.01	15.40	5.01	14.20	5.01
	0.0	-0.7	18.90	5.01	17.80	5.01	16.80	5.01	15.60	5.01	14.40	5.01
	3.0	2.2	19.10	5.01	18.00	5.01	17.00	5.01	15.80	5.01	14.60	5.01
	5.0	4.1	19.20	5.01	18.20	5.01	17.10	5.01	15.90	5.01	14.70	4.85
	7.0	6.0	19.30	5.01	18.30	5.01	17.30	5.01	16.10	5.01	14.70	4.53
	9.0	7.9	19.50	5.01	18.40	5.01	17.40	5.01	16.20	4.78	14.70	4.25
120	-25.0	-25.1	10.20	3.57	10.00	3.78	9.70	4.02	9.50	4.24	8.90	4.38
	-22.0	-22.2	11.60	3.88	11.40	4.09	11.20	4.34	10.70	4.48	9.70	4.48
	-20.0	-20.2	12.60	4.09	12.40	4.31	12.10	4.55	11.20	4.55	10.20	4.55
	-17.0	-17.3	14.10	4.41	13.70	4.62	12.80	4.66	11.90	4.66	10.90	4.66
	-15.0	-15.3	15.00	4.62	14.20	4.69	13.30	4.73	12.40	4.73	11.40	4.73
	-12.0	-12.4	15.90	4.80	15.00	4.80	14.00	4.83	13.10	4.83	12.10	4.83
	-10.0	-10.5	16.40	4.87	15.40	4.87	14.50	4.90	13.60	4.90	12.60	4.90
	-7.0	-7.6	17.10	4.97	16.20	4.97	15.30	5.01	14.20	5.01	13.10	5.01
	-5.0	-5.6	17.30	5.01	16.30	5.01	15.40	5.01	14.40	5.01	13.30	5.01
	-3.0	-3.7	17.50	5.01	16.50	5.01	15.50	5.01	14.50	5.01	13.40	5.01
	0.0	-0.7	17.70	5.01	16.70	5.01	15.70	5.01	14.70	5.01	13.60	4.93
	3.0	2.2	17.90	5.01	16.90	5.01	15.90	5.01	14.90	5.00	13.60	4.42
	5.0	4.1	18.00	5.01	17.00	5.01	16.10	5.01	14.90	4.66	13.60	4.13
	7.0	6.0	18.10	5.01	17.10	5.01	16.20	4.87	14.90	4.35	13.60	3.86
	9.0	7.9	18.30	5.01	17.30	5.01	16.20	4.56	14.90	4.08	13.60	3.63
110	-25.0	-25.1	9.90	3.85	9.70	4.02	9.50	4.17	9.10	4.38	8.10	4.41
	-22.0	-22.2	11.30	4.17	11.10	4.34	10.70	4.48	9.80	4.48	8.80	4.52
	-20.0	-20.2	12.30	4.38	11.90	4.55	11.20	4.55	10.30	4.55	9.30	4.59
	-17.0	-17.3	13.50	4.62	12.70	4.66	11.90	4.66	11.00	4.66	10.00	4.69
	-15.0	-15.3	14.00	4.69	13.20	4.73	12.40	4.73	11.50	4.73	10.50	4.76
	-12.0	-12.4	14.70	4.80	13.90	4.83	13.10	4.83	12.20	4.83	11.20	4.87
	-10.0	-10.5	15.20	4.87	14.40	4.90	13.60	4.90	12.70	4.90	11.70	4.94
	-7.0	-7.6	15.90	4.97	15.10	5.01	14.20	5.01	13.30	5.01	12.30	5.01
	-5.0	-5.6	16.10	5.01	15.20	5.01	14.40	5.01	13.40	5.01	12.40	5.01
	-3.0	-3.7	16.20	5.01	15.40	5.01	14.50	5.01	13.50	5.01	12.50	4.68
	0.0	-0.7	16.40	5.01	15.60	5.01	14.70	5.01	13.70	4.74	12.50	4.18
	3.0	2.2	16.60	5.01	15.80	5.01	14.90	4.77	13.70	4.25	12.50	3.76
	5.0	4.1	16.70	5.01	15.90	4.91	14.90	4.44	13.70	3.97	12.50	3.51
	7.0	6.0	16.90	5.01	15.90	4.58	14.90	4.15	13.70	3.71	12.50	3.29
	9.0	7.9	16.90	4.70	15.90	4.29	14.90	3.89	13.70	3.49	12.50	3.10
100	-25.0	-25.1	9.60	4.09	9.40	4.24	9.00	4.38	8.10	4.41	7.30	4.19
	-22.0	-22.2	11.00	4.41	10.50	4.48	9.70	4.48	8.80	4.52	8.00	4.29
	-20.0	-20.2	11.60	4.55	10.90	4.55	10.20	4.55	9.30	4.59	8.50	4.37
	-17.0	-17.3	12.30	4.66	11.70	4.66	10.90	4.66	10.00	4.69	9.20	4.47
	-15.0	-15.3	12.80	4.73	12.20	4.73	11.40	4.73	10.50	4.76	9.70	4.54
	-12.0	-12.4	13.60	4.83	12.90	4.83	12.10	4.83	11.30	4.87	10.50	4.65
	-10.0	-10.5	14.00	4.90	13.40	4.90	12.60	4.90	11.70	4.94	10.90	4.72
	-7.0	-7.6	14.70	5.01	14.00	5.01	13.20	5.01	12.30	5.01	11.30	4.60
	-5.0	-5.6	14.90	5.01	14.10	5.01	13.30	5.01	12.40	4.83	11.30	4.25
	-3.0	-3.7	15.00	5.01	14.20	5.01	13.40	5.01	12.40	4.47	11.30	3.94
	0.0	-0.7	15.20	5.01	14.50	4.98	13.50	4.50	12.40	3.99	11.30	3.53
	3.0	2.2	15.40	4.92	14.50	4.46	13.50	4.03	12.40	3.58	11.30	3.17
	5.0	4.1	15.40	4.58	14.50	4.15	13.50	3.76	12.40	3.35	11.30	2.97
	7.0	6.0	15.40	4.27	14.50	3.88	13.50	3.52	12.40	3.14	11.30	2.79
	9.0	7.9	15.40	4.00	14.50	3.64	13.50	3.31	12.40	2.96	11.30	2.63
11.0	9.8	15.40	3.77	14.50	3.43	13.50	3.12	12.40	2.80	11.30	2.50	
13.0	11.8	15.40	3.56	14.50	3.25	13.50	2.96	12.40	2.66	11.30	2.38	
15.0	13.7	15.40	3.37	14.50	3.09	13.50	2.82	12.40	2.54	11.30	2.27	

10. Capacity Table

AM040BXMD*R

Heating

TC : Total Capacity, PI : Power Input

Combination, % (Capacity index)	Outdoor temperature (°C, DB)		Indoor temperature (°C, DB)									
			16		18		20		22		24	
	DB	WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
50	-25.0	-25.1	3.90	2.49	3.40	2.20	3.00	1.93	2.50	1.64	2.00	1.38
	-22.0	-22.2	4.60	2.60	4.20	2.31	3.70	2.04	3.20	1.75	2.70	1.49
	-20.0	-20.2	5.10	2.67	4.70	2.38	4.20	2.11	3.70	1.82	3.20	1.56
	-17.0	-17.3	5.80	2.78	5.40	2.48	4.90	2.21	4.40	1.92	3.90	1.66
	-15.0	-15.3	6.30	2.85	5.90	2.55	5.40	2.28	4.90	2.00	4.40	1.73
	-12.0	-12.4	7.10	2.95	6.60	2.66	6.20	2.39	5.70	2.10	5.20	1.84
	-10.0	-10.5	7.50	3.02	7.10	2.73	6.60	2.46	6.10	2.17	5.60	1.91
	-7.0	-7.6	7.70	2.83	7.20	2.56	6.80	2.31	6.20	2.05	5.70	1.80
	-5.0	-5.6	7.70	2.63	7.20	2.38	6.80	2.15	6.20	1.90	5.70	1.68
	-3.0	-3.7	7.70	2.44	7.20	2.21	6.80	2.00	6.20	1.77	5.70	1.56
	0.0	-0.7	7.70	2.20	7.20	2.00	6.80	1.81	6.20	1.60	5.70	1.42
	3.0	2.2	7.70	2.00	7.20	1.82	6.80	1.64	6.20	1.46	5.70	1.29
	5.0	4.1	7.70	1.88	7.20	1.71	6.80	1.55	6.20	1.38	5.70	1.22
	7.0	6.0	7.70	1.78	7.20	1.62	6.80	1.47	6.20	1.31	5.70	1.16
	9.0	7.9	7.70	1.69	7.20	1.54	6.80	1.40	6.20	1.25	5.70	1.11
	11.0	9.8	7.70	1.62	7.20	1.48	6.80	1.34	6.20	1.20	5.70	1.06
13.0	11.8	7.70	1.55	7.20	1.42	6.80	1.29	6.20	1.15	5.70	1.02	
15.0	13.7	7.70	1.49	7.20	1.37	6.80	1.24	6.20	1.11	5.70	0.99	

NOTE

- The performance table shows the average value of each conditions.

10. Capacity Table

AM050BXMD*R

Cooling

TC : Total Capacity, PI : Power Input

Combination, % (Capacity index)	Outdoor temperature (°C, DB)	Indoor temperature (°C, WB)													
		14		16		18		19		20		22		24	
		TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW
50	10	4.60	0.49	5.50	0.61	6.50	0.74	7.00	0.82	7.40	0.89	8.30	1.03	9.10	1.20
	12	4.60	0.51	5.50	0.63	6.50	0.77	7.00	0.85	7.40	0.92	8.30	1.07	9.10	1.25
	14	4.60	0.52	5.50	0.66	6.50	0.80	7.00	0.88	7.40	0.96	8.30	1.12	9.10	1.31
	16	4.60	0.55	5.50	0.68	6.50	0.84	7.00	0.92	7.40	1.00	8.30	1.18	9.10	1.37
	18	4.60	0.57	5.50	0.72	6.50	0.88	7.00	0.97	7.40	1.05	8.30	1.24	9.10	1.45
	20	4.60	0.60	5.50	0.75	6.50	0.93	7.00	1.02	7.40	1.11	8.30	1.31	9.10	1.53
	21	4.60	0.61	5.50	0.77	6.50	0.95	7.00	1.05	7.40	1.14	8.30	1.34	9.10	1.57
	23	4.60	0.65	5.50	0.81	6.50	1.01	7.00	1.11	7.40	1.21	8.30	1.43	9.10	1.67
	25	4.60	0.68	5.50	0.86	6.50	1.07	7.00	1.18	7.40	1.29	8.30	1.52	9.10	1.79
	27	4.60	0.72	5.50	0.92	6.50	1.14	7.00	1.26	7.40	1.38	8.30	1.63	9.10	1.91
	29	4.60	0.77	5.50	0.98	6.50	1.22	7.00	1.35	7.40	1.47	8.30	1.74	9.10	2.05
	31	4.60	0.83	5.50	1.05	6.50	1.31	7.00	1.44	7.40	1.58	8.30	1.87	9.10	2.21
	33	4.60	0.88	5.50	1.13	6.50	1.40	7.00	1.55	7.40	1.70	8.30	2.01	9.10	2.37
	35	4.60	0.95	5.50	1.21	6.50	1.51	7.00	1.67	7.40	1.83	8.30	2.17	9.10	2.56
	37	4.60	1.02	5.50	1.30	6.50	1.63	7.00	1.80	7.40	1.97	8.30	2.34	9.10	2.76
	39	4.60	1.10	5.50	1.41	6.50	1.76	7.00	1.94	7.40	2.13	8.30	2.53	9.10	2.98
43	4.60	1.29	5.50	1.64	6.50	2.05	7.00	2.27	7.40	2.49	8.30	2.95	9.10	3.48	
46	4.60	1.44	5.50	1.84	6.50	2.30	7.00	2.54	7.40	2.77	8.10	3.24	8.70	3.59	
48	4.60	1.56	5.50	1.99	6.30	2.47	6.70	2.72	7.00	2.79	7.50	3.11	7.90	3.46	

NOTE

- The performance table shows the average value of each conditions.

10. Capacity Table

AM050BXMD*R

Heating

TC : Total Capacity, PI : Power Input

Combination, % (Capacity index)	Outdoor temperature (°C, DB)		Indoor temperature (°C, DB)									
			16		18		20		22		24	
	DB	WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
130	-25.0	-25.1	11.00	3.07	10.70	3.38	10.40	3.56	10.10	3.96	9.70	4.27
	-22.0	-22.2	12.70	3.47	12.40	3.78	12.10	3.96	11.80	4.36	11.40	4.66
	-20.0	-20.2	13.90	3.74	13.60	4.05	13.30	4.22	13.00	4.62	12.00	4.75
	-17.0	-17.3	15.60	4.13	15.30	4.44	15.00	4.62	14.10	4.84	12.90	4.89
	-15.0	-15.3	16.70	4.40	16.50	4.71	15.90	4.89	14.60	4.93	13.40	4.97
	-12.0	-12.4	18.50	4.80	17.80	5.02	16.80	5.02	15.50	5.06	14.30	5.11
	-10.0	-10.5	19.40	5.06	18.40	5.11	17.30	5.11	16.10	5.15	14.90	5.19
	-7.0	-7.6	20.20	5.19	19.20	5.24	18.20	5.24	16.90	5.28	15.80	5.33
	-5.0	-5.6	20.80	5.28	19.80	5.33	18.80	5.33	17.50	5.37	16.30	5.42
	-3.0	-3.7	21.40	5.37	20.40	5.42	19.40	5.42	17.90	5.46	16.50	5.46
	0.0	-0.7	21.90	5.46	20.70	5.46	19.50	5.46	18.10	5.46	16.80	5.46
	3.0	2.2	22.10	5.46	21.00	5.46	19.80	5.46	18.30	5.46	17.00	5.46
	5.0	4.1	22.30	5.46	21.10	5.46	19.90	5.46	18.50	5.46	17.20	5.46
	7.0	6.0	22.40	5.46	21.30	5.46	20.10	5.46	18.70	5.46	17.30	5.46
	9.0	7.9	22.60	5.46	21.50	5.46	20.20	5.46	18.80	5.46	17.50	5.33
	11.0	9.8	22.80	5.46	21.60	5.46	20.40	5.46	19.00	5.46	17.50	5.02
13.0	11.8	22.90	5.46	21.80	5.46	20.60	5.46	19.10	5.31	17.50	4.74	
15.0	13.7	23.10	5.46	21.90	5.46	20.70	5.46	19.10	5.02	17.50	4.49	
120	-25.0	-25.1	10.60	3.38	10.40	3.69	10.10	3.87	9.80	4.18	9.50	4.49
	-22.0	-22.2	12.30	3.78	12.10	4.09	11.80	4.27	11.50	4.58	10.60	4.71
	-20.0	-20.2	13.50	4.05	13.20	4.36	13.00	4.53	12.30	4.75	11.20	4.80
	-17.0	-17.3	15.20	4.44	15.00	4.75	14.30	4.84	13.10	4.89	12.00	4.93
	-15.0	-15.3	16.40	4.71	15.80	4.93	14.80	4.93	13.70	4.97	12.60	5.02
	-12.0	-12.4	17.60	5.02	16.60	5.06	15.70	5.06	14.60	5.11	13.50	5.15
	-10.0	-10.5	18.20	5.11	17.20	5.15	16.30	5.15	15.10	5.19	14.10	5.24
	-7.0	-7.6	19.10	5.24	18.10	5.28	17.20	5.28	16.00	5.33	14.90	5.37
	-5.0	-5.6	19.60	5.33	18.60	5.37	17.70	5.37	16.60	5.42	15.40	5.46
	-3.0	-3.7	20.20	5.42	19.20	5.46	18.10	5.46	16.80	5.46	15.60	5.46
	0.0	-0.7	20.50	5.46	19.40	5.46	18.30	5.46	17.00	5.46	15.80	5.46
	3.0	2.2	20.80	5.46	19.70	5.46	18.60	5.46	17.30	5.46	16.10	5.46
	5.0	4.1	20.90	5.46	19.80	5.46	18.70	5.46	17.40	5.46	16.10	5.19
	7.0	6.0	21.10	5.46	20.00	5.46	18.90	5.46	17.60	5.46	16.10	4.85
	9.0	7.9	21.30	5.46	20.10	5.46	19.00	5.46	17.70	5.13	16.10	4.55
	11.0	9.8	21.40	5.46	20.30	5.46	19.20	5.37	17.70	4.82	16.10	4.29
13.0	11.8	21.60	5.46	20.50	5.46	19.20	5.06	17.70	4.55	16.10	4.06	
15.0	13.7	21.70	5.46	20.50	5.24	19.20	4.78	17.70	4.31	16.10	3.86	
110	-25.0	-25.1	10.30	3.69	10.00	3.87	9.80	4.09	9.50	4.40	8.80	4.49
	-22.0	-22.2	12.00	4.09	11.70	4.27	11.50	4.49	10.70	4.71	9.80	4.71
	-20.0	-20.2	13.10	4.36	12.90	4.53	12.40	4.75	11.30	4.80	10.30	4.80
	-17.0	-17.3	14.90	4.75	14.10	4.84	13.20	4.89	12.20	4.93	11.20	4.93
	-15.0	-15.3	15.50	4.93	14.70	4.93	13.80	4.97	12.80	5.02	11.80	5.02
	-12.0	-12.4	16.40	5.06	15.60	5.06	14.70	5.11	13.60	5.15	12.60	5.15
	-10.0	-10.5	16.90	5.15	16.10	5.15	15.20	5.19	14.20	5.24	13.20	5.24
	-7.0	-7.6	17.80	5.28	17.00	5.28	16.10	5.33	15.10	5.37	14.10	5.37
	-5.0	-5.6	18.40	5.37	17.60	5.37	16.70	5.42	15.60	5.46	14.40	5.46
	-3.0	-3.7	18.90	5.46	17.90	5.46	16.90	5.46	15.70	5.46	14.50	5.46
	0.0	-0.7	19.10	5.46	18.10	5.46	17.10	5.46	16.00	5.46	14.80	5.28
	3.0	2.2	19.30	5.46	18.40	5.46	17.40	5.46	16.20	5.34	14.80	4.73
	5.0	4.1	19.50	5.46	18.50	5.46	17.50	5.46	16.20	4.98	14.80	4.41
	7.0	6.0	19.70	5.46	18.70	5.46	17.60	5.21	16.20	4.65	14.80	4.13
	9.0	7.9	19.80	5.46	18.80	5.38	17.60	4.88	16.20	4.37	14.80	3.89
	11.0	9.8	20.00	5.46	18.80	5.05	17.60	4.59	16.20	4.12	14.80	3.67
13.0	11.8	20.10	5.21	18.80	4.76	17.60	4.33	16.20	3.89	14.80	3.48	
15.0	13.7	20.10	4.92	18.80	4.50	17.60	4.11	16.20	3.70	14.80	3.31	
100	-25.0	-25.1	9.90	4.00	9.70	4.18	9.40	4.52	8.80	4.53	8.10	4.62
	-22.0	-22.2	11.60	4.40	11.40	4.58	10.70	4.71	9.80	4.75	8.90	4.75
	-20.0	-20.2	12.80	4.66	12.10	4.75	11.20	4.80	10.40	4.84	9.50	4.84
	-17.0	-17.3	13.70	4.89	13.00	4.89	12.10	4.93	11.20	4.97	10.40	4.97
	-15.0	-15.3	14.30	4.97	13.50	4.97	12.70	5.02	11.80	5.06	11.00	5.06
	-12.0	-12.4	15.10	5.11	14.40	5.11	13.50	5.15	12.70	5.19	11.80	5.19
	-10.0	-10.5	15.70	5.19	15.00	5.19	14.10	5.24	13.30	5.28	12.40	5.28
	-7.0	-7.6	16.60	5.33	15.90	5.33	15.00	5.37	14.10	5.42	13.30	5.42
	-5.0	-5.6	17.10	5.42	16.40	5.42	15.40	5.46	14.50	5.46	13.40	5.37
	-3.0	-3.7	17.40	5.46	16.60	5.46	15.60	5.46	14.60	5.46	13.40	4.97
	0.0	-0.7	17.70	5.46	16.80	5.46	15.80	5.46	14.70	5.04	13.40	4.44
	3.0	2.2	17.90	5.46	17.00	5.46	16.00	5.08	14.70	4.52	13.40	3.99
	5.0	4.1	18.10	5.46	17.10	5.23	16.00	4.73	14.70	4.22	13.40	3.73
	7.0	6.0	18.20	5.36	17.10	4.88	16.00	4.42	14.70	3.95	13.40	3.50
	9.0	7.9	18.20	5.02	17.10	4.58	16.00	4.15	14.70	3.72	13.40	3.30
	11.0	9.8	18.20	4.72	17.10	4.31	16.00	3.91	14.70	3.51	13.40	3.12
13.0	11.8	18.20	4.45	17.10	4.07	16.00	3.70	14.70	3.33	13.40	2.97	
15.0	13.7	18.20	4.21	17.10	3.86	16.00	3.52	14.70	3.17	13.40	2.83	

10. Capacity Table

AM050BXMD*R

Heating

TC : Total Capacity, PI : Power Input

Combination, % (Capacity index)	Outdoor temperature (°C, DB)		Indoor temperature (°C, DB)																				
			16		18		20		22		24												
			TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW											
90	DB	WB																					
	-25.0	-25.1	9.50	4.40	9.10	4.40	8.60	4.53	8.00	4.62	7.00	4.19											
	-22.0	-22.2	10.90	4.71	10.30	4.71	9.50	4.75	8.90	4.75	7.90	4.32											
	-20.0	-20.2	11.50	4.80	10.90	4.80	10.10	4.84	9.40	4.84	8.40	4.41											
	-17.0	-17.3	12.40	4.93	11.70	4.93	11.00	4.97	10.30	4.97	9.30	4.55											
	-15.0	-15.3	12.90	5.02	12.30	5.02	11.50	5.06	10.90	5.06	9.90	4.63											
	-12.0	-12.4	13.80	5.15	13.20	5.15	12.40	5.19	11.70	5.19	10.80	4.77											
	-10.0	-10.5	14.40	5.24	13.80	5.24	13.00	5.28	12.30	5.28	11.30	4.85											
	-7.0	-7.6	15.30	5.37	14.60	5.37	13.80	5.42	13.20	5.41	12.10	4.99											
	-5.0	-5.6	15.80	5.46	15.00	5.46	14.20	5.46	13.30	5.25	12.10	4.61											
	-3.0	-3.7	15.90	5.46	15.20	5.46	14.30	5.46	13.30	4.86	12.10	4.27											
	0.0	-0.7	16.20	5.46	15.40	5.40	14.40	4.88	13.30	4.34	12.10	3.83											
	3.0	2.2	16.40	5.33	15.40	4.84	14.40	4.38	13.30	3.90	12.10	3.45											
	5.0	4.1	16.40	4.97	15.40	4.51	14.40	4.09	13.30	3.65	12.10	3.23											
	7.0	6.0	16.40	4.64	15.40	4.22	14.40	3.83	13.30	3.42	12.10	3.03											
	9.0	7.9	16.40	4.36	15.40	3.97	14.40	3.61	13.30	3.22	12.10	2.86											
11.0	9.8	16.40	4.10	15.40	3.74	14.40	3.41	13.30	3.05	12.10	2.71												
13.0	11.8	16.40	3.88	15.40	3.55	14.40	3.23	13.30	2.90	12.10	2.59												
15.0	13.7	16.40	3.69	15.40	3.37	14.40	3.08	13.30	2.77	12.10	2.47												
80	-25.0	-25.1	8.70	4.53	8.20	4.62	7.60	4.36	6.70	4.00	5.90	3.43											
	-22.0	-22.2	9.60	4.75	9.10	4.75	8.50	4.49	7.60	4.13	6.70	3.56											
	-20.0	-20.2	10.20	4.84	9.70	4.84	9.00	4.58	8.20	4.22	7.30	3.65											
	-17.0	-17.3	11.00	4.97	10.50	4.97	9.90	4.72	9.00	4.36	8.20	3.78											
	-15.0	-15.3	11.60	5.06	11.10	5.06	10.50	4.80	9.60	4.44	8.70	3.87											
	-12.0	-12.4	12.50	5.19	12.00	5.19	11.40	4.94	10.50	4.58	9.60	4.00											
	-10.0	-10.5	13.10	5.28	12.50	5.28	11.90	5.02	11.10	4.67	10.20	4.09											
	-7.0	-7.6	13.90	5.42	13.40	5.42	12.80	5.16	11.80	4.80	10.80	4.22											
	-5.0	-5.6	14.30	5.46	13.60	5.46	12.80	5.00	11.80	4.44	10.80	3.91											
	-3.0	-3.7	14.40	5.46	13.70	5.13	12.80	4.63	11.80	4.11	10.80	3.62											
	0.0	-0.7	14.60	5.07	13.70	4.59	12.80	4.14	11.80	3.68	10.80	3.25											
	3.0	2.2	14.60	4.54	13.70	4.12	12.80	3.73	11.80	3.32	10.80	2.93											
	5.0	4.1	14.60	4.24	13.70	3.85	12.80	3.48	11.80	3.11	10.80	2.75											
	7.0	6.0	14.60	3.97	13.70	3.61	12.80	3.27	11.80	2.92	10.80	2.59											
	9.0	7.9	14.60	3.74	13.70	3.40	12.80	3.09	11.80	2.76	10.80	2.45											
	11.0	9.8	14.60	3.53	13.70	3.22	12.80	2.92	11.80	2.62	10.80	2.33											
13.0	11.8	14.60	3.35	13.70	3.06	12.80	2.78	11.80	2.49	10.80	2.22												
15.0	13.7	14.60	3.19	13.70	2.92	12.80	2.66	11.80	2.39	10.80	2.13												
70	-25.0	-25.1	7.60	4.49	6.90	4.22	6.20	3.72	5.50	3.42	4.70	2.92											
	-22.0	-22.2	8.40	4.62	7.80	4.36	7.10	3.85	6.30	3.55	5.60	3.06											
	-20.0	-20.2	9.00	4.71	8.30	4.45	7.70	3.94	6.90	3.64	6.10	3.15											
	-17.0	-17.3	9.90	4.84	9.20	4.58	8.50	4.08	7.80	3.77	7.00	3.28											
	-15.0	-15.3	10.50	4.93	9.80	4.67	9.10	4.16	8.30	3.86	7.60	3.37											
	-12.0	-12.4	11.30	5.06	10.60	4.80	10.00	4.30	9.20	3.99	8.40	3.50											
	-10.0	-10.5	11.90	5.15	11.20	4.89	10.60	4.39	9.80	4.08	9.00	3.59											
	-7.0	-7.6	12.80	5.28	12.00	5.02	11.20	4.52	10.30	4.01	9.40	3.54											
	-5.0	-5.6	12.80	5.12	12.00	4.64	11.20	4.18	10.30	3.71	9.40	3.28											
	-3.0	-3.7	12.80	4.74	12.00	4.30	11.20	3.87	10.30	3.45	9.40	3.04											
	0.0	-0.7	12.80	4.24	12.00	3.85	11.20	3.47	10.30	3.09	9.40	2.73											
	3.0	2.2	12.80	3.82	12.00	3.47	11.20	3.13	10.30	2.79	9.40	2.47											
	5.0	4.1	12.80	3.57	12.00	3.25	11.20	2.93	10.30	2.62	9.40	2.32											
	7.0	6.0	12.80	3.35	12.00	3.05	11.20	2.76	10.30	2.47	9.40	2.19											
	9.0	7.9	12.80	3.16	12.00	2.88	11.20	2.61	10.30	2.34	9.40	2.08											
	11.0	9.8	12.80	2.99	12.00	2.73	11.20	2.48	10.30	2.23	9.40	1.98											
13.0	11.8	12.80	2.85	12.00	2.60	11.20	2.36	10.30	2.13	9.40	1.89												
15.0	13.7	12.80	2.72	12.00	2.49	11.20	2.26	10.30	2.04	9.40	1.82												
60	-25.0	-25.1	6.00	3.73	5.40	3.50	4.90	3.09	4.20	2.65	3.50	2.41											
	-22.0	-22.2	6.90	3.86	6.30	3.64	5.70	3.22	5.10	2.78	4.40	2.54											
	-20.0	-20.2	7.50	3.95	6.90	3.73	6.30	3.31	5.60	2.87	5.00	2.63											
	-17.0	-17.3	8.30	4.08	7.70	3.86	7.20	3.45	6.50	3.00	5.90	2.76											
	-15.0	-15.3	8.90	4.17	8.30	3.95	7.70	3.53	7.10	3.09	6.40	2.85											
	-12.0	-12.4	9.80	4.30	9.20	4.08	8.60	3.67	7.90	3.23	7.30	2.98											
	-10.0	-10.5	10.30	4.39	9.80	4.17	9.20	3.76	8.50	3.31	7.90	3.07											
	-7.0	-7.6	10.90	4.53	10.30	4.09	9.60	3.70	8.80	3.27	8.10	2.89											
	-5.0	-5.6	10.90	4.19	10.30	3.79	9.60	3.42	8.80	3.03	8.10	2.68											
	-3.0	-3.7	10.90	3.88	10.30	3.52	9.60	3.18	8.80	2.82	8.10	2.49											
	0.0	-0.7	10.90	3.48	10.30	3.16	9.60	2.86	8.80	2.54	8.10												

10. Capacity Table

AM050BXMD*R

Heating

TC : Total Capacity, PI : Power Input

Combination, % (Capacity index)	Outdoor temperature (°C, DB)		Indoor temperature (°C, DB)									
			16		18		20		22		24	
	DB	WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
50	-25.0	-25.1	4.50	2.98	4.00	2.80	3.50	2.46	2.90	2.10	2.40	1.78
	-22.0	-22.2	5.30	3.11	4.80	2.94	4.40	2.59	3.80	2.23	3.30	1.91
	-20.0	-20.2	5.90	3.20	5.40	3.03	4.90	2.68	4.40	2.32	3.80	2.00
	-17.0	-17.3	6.80	3.33	6.30	3.16	5.80	2.81	5.30	2.45	4.70	2.13
	-15.0	-15.3	7.30	3.42	6.90	3.25	6.40	2.90	5.80	2.54	5.30	2.22
	-12.0	-12.4	8.20	3.55	7.70	3.38	7.20	3.04	6.70	2.67	6.10	2.35
	-10.0	-10.5	8.80	3.64	8.30	3.47	7.80	3.12	7.30	2.76	6.70	2.44
	-7.0	-7.6	9.10	3.59	8.60	3.25	8.00	2.93	7.40	2.60	6.70	2.30
	-5.0	-5.6	9.10	3.32	8.60	3.01	8.00	2.72	7.40	2.41	6.70	2.14
	-3.0	-3.7	9.10	3.09	8.60	2.80	8.00	2.53	7.40	2.24	6.70	1.99
	0.0	-0.7	9.10	2.78	8.60	2.52	8.00	2.28	7.40	2.02	6.70	1.80
	3.0	2.2	9.10	2.51	8.60	2.28	8.00	2.07	7.40	1.84	6.70	1.63
	5.0	4.1	9.10	2.36	8.60	2.15	8.00	1.95	7.40	1.73	6.70	1.54
	7.0	6.0	9.10	2.23	8.60	2.03	8.00	1.84	7.40	1.64	6.70	1.46
	9.0	7.9	9.10	2.12	8.60	1.93	8.00	1.75	7.40	1.56	6.70	1.39
	11.0	9.8	9.10	2.02	8.60	1.84	8.00	1.67	7.40	1.49	6.70	1.33
13.0	11.8	9.10	1.93	8.60	1.76	8.00	1.60	7.40	1.43	6.70	1.28	
15.0	13.7	9.10	1.86	8.60	1.69	8.00	1.54	7.40	1.38	6.70	1.23	

NOTE

- The performance table shows the average value of each conditions.

10. Capacity Table

AM060BXMD*R

Cooling

TC : Total Capacity, PI : Power Input

Combination, % (Capacity index)	Outdoor temperature (°C, DB)	Indoor temperature (°C, WB)													
		14		16		18		19		20		22		24	
		TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW
130	10	13.10	1.90	15.90	2.33	18.70	2.81	20.20	3.06	21.40	3.30	23.80	3.84	26.20	4.47
	12	13.10	1.99	15.90	2.45	18.70	2.96	20.20	3.24	21.40	3.50	23.80	4.09	26.20	4.77
	14	13.10	2.08	15.90	2.58	18.70	3.14	20.20	3.44	21.40	3.73	23.80	4.37	26.20	5.11
	16	13.10	2.19	15.90	2.73	18.70	3.34	20.20	3.66	21.40	3.98	23.80	4.68	26.20	5.48
	18	13.10	2.32	15.90	2.90	18.70	3.56	20.20	3.91	21.40	4.26	23.80	5.02	26.20	5.90
	20	13.10	2.46	15.90	3.09	18.70	3.81	20.20	4.19	21.40	4.57	23.80	5.40	26.20	6.35
	21	13.10	2.54	15.90	3.20	18.70	3.94	20.20	4.34	21.40	4.74	23.80	5.60	26.20	6.38
	23	13.10	2.70	15.90	3.42	18.70	4.23	20.20	4.67	21.40	5.10	23.80	6.04	25.40	6.23
	25	13.10	2.89	15.90	3.67	18.70	4.55	20.20	5.03	21.40	5.49	23.80	6.38	24.40	6.08
	27	13.10	3.10	15.90	3.95	18.70	4.91	20.20	5.42	21.40	5.93	23.00	6.23	23.50	5.93
	29	13.10	3.33	15.90	4.25	18.70	5.29	20.20	5.85	21.40	6.38	22.10	6.08	22.60	5.78
	31	13.10	3.59	15.90	4.58	18.70	5.71	20.20	6.32	20.70	6.23	21.10	5.93	21.60	5.63
	33	13.10	3.87	15.90	4.95	18.70	6.17	19.50	6.17	19.70	6.08	20.20	5.78	20.70	5.48
	35	13.10	4.17	15.90	5.34	18.30	6.31	18.60	6.02	18.80	5.93	19.30	5.63	19.80	5.33
	37	13.10	4.50	15.90	5.77	17.40	6.16	17.60	5.87	17.90	5.78	18.40	5.48	18.80	5.18
	39	13.10	4.86	15.60	5.97	16.40	6.01	16.70	5.72	16.90	5.63	17.40	5.33	17.90	5.03
43	12.70	5.35	14.00	5.67	14.60	5.71	14.80	5.42	15.10	5.33	15.60	5.03	16.10	4.73	
46	11.30	5.13	12.60	5.44	13.20	5.48	13.40	5.19	13.70	5.11	14.20	4.81	14.70	4.51	
48	10.40	4.98	11.70	5.29	12.20	5.33	12.50	5.05	12.80	4.96	13.20	4.66	13.70	4.36	
120	10	12.10	1.70	14.70	2.10	17.30	2.52	18.60	2.75	19.70	2.97	22.00	3.44	24.20	3.99
	12	12.10	1.78	14.70	2.20	17.30	2.66	18.60	2.90	19.70	3.14	22.00	3.65	24.20	4.25
	14	12.10	1.86	14.70	2.31	17.30	2.81	18.60	3.07	19.70	3.33	22.00	3.89	24.20	4.54
	16	12.10	1.96	14.70	2.44	17.30	2.98	18.60	3.27	19.70	3.54	22.00	4.16	24.20	4.86
	18	12.10	2.06	14.70	2.59	17.30	3.17	18.60	3.48	19.70	3.78	22.00	4.45	24.20	5.22
	20	12.10	2.19	14.70	2.75	17.30	3.38	18.60	3.72	19.70	4.05	22.00	4.78	24.20	5.61
	21	12.10	2.25	14.70	2.84	17.30	3.50	18.60	3.86	19.70	4.20	22.00	4.96	24.20	5.83
	23	12.10	2.40	14.70	3.04	17.30	3.75	18.60	4.14	19.70	4.51	22.00	5.34	24.20	6.28
	25	12.10	2.56	14.70	3.26	17.30	4.03	18.60	4.45	19.70	4.85	22.00	5.75	24.00	6.31
	27	12.10	2.74	14.70	3.50	17.30	4.34	18.60	4.79	19.70	5.23	22.00	6.21	23.10	6.16
	29	12.10	2.95	14.70	3.76	17.30	4.67	18.60	5.17	19.70	5.65	21.70	6.31	22.20	6.01
	31	12.10	3.17	14.70	4.05	17.30	5.04	18.60	5.58	19.70	6.10	20.80	6.16	21.20	5.86
	33	12.10	3.41	14.70	4.37	17.30	5.44	18.60	6.03	19.40	6.26	19.90	6.01	20.30	5.71
	35	12.10	3.68	14.70	4.72	17.30	5.88	18.30	6.19	18.50	6.11	18.90	5.86	19.40	5.56
	37	12.10	3.97	14.70	5.10	17.10	5.90	17.30	6.04	17.50	5.96	18.00	5.71	18.40	5.41
	39	12.10	4.29	14.60	5.40	16.10	5.76	16.40	5.89	16.60	5.81	17.10	5.56	17.50	5.26
43	11.80	4.83	13.50	5.45	14.30	5.46	14.50	5.59	14.80	5.51	15.20	5.26	15.60	4.96	
46	10.80	4.78	12.10	5.22	12.90	5.23	13.10	5.37	13.40	5.29	13.80	5.03	14.30	4.73	
48	9.90	4.63	11.20	5.07	11.90	5.08	12.20	5.22	12.40	5.14	12.90	4.88	13.30	4.58	
110	10	11.10	1.52	13.50	1.87	15.90	2.26	17.10	2.46	18.10	2.66	20.10	3.08	22.20	3.56
	12	11.10	1.59	13.50	1.96	15.90	2.37	17.10	2.59	18.10	2.80	20.10	3.26	22.20	3.78
	14	11.10	1.66	13.50	2.06	15.90	2.50	17.10	2.74	18.10	2.96	20.10	3.46	22.20	4.02
	16	11.10	1.74	13.50	2.17	15.90	2.64	17.10	2.90	18.10	3.15	20.10	3.68	22.20	4.30
	18	11.10	1.83	13.50	2.29	15.90	2.81	17.10	3.09	18.10	3.35	20.10	3.94	22.20	4.61
	20	11.10	1.94	13.50	2.43	15.90	2.99	17.10	3.29	18.10	3.58	20.10	4.22	22.20	4.95
	21	11.10	1.99	13.50	2.51	15.90	3.09	17.10	3.41	18.10	3.71	20.10	4.37	22.20	5.13
	23	11.10	2.12	13.50	2.68	15.90	3.31	17.10	3.65	18.10	3.98	20.10	4.70	22.20	5.52
	25	11.10	2.26	13.50	2.87	15.90	3.55	17.10	3.92	18.10	4.28	20.10	5.06	22.20	5.95
	27	11.10	2.42	13.50	3.08	15.90	3.81	17.10	4.22	18.10	4.61	20.10	5.45	22.20	6.38
	29	11.10	2.59	13.50	3.31	15.90	4.11	17.10	4.55	18.10	4.97	20.10	5.88	21.80	6.31
	31	11.10	2.78	13.50	3.56	15.90	4.43	17.10	4.91	18.10	5.36	20.10	6.35	20.80	6.16
	33	11.10	3.00	13.50	3.84	15.90	4.78	17.10	5.30	18.10	5.79	19.50	6.20	19.90	6.01
	35	11.10	3.23	13.50	4.14	15.90	5.16	17.10	5.72	18.00	6.11	18.60	6.05	19.00	5.86
	37	11.10	3.49	13.50	4.47	15.90	5.57	16.90	5.92	17.20	5.96	17.60	5.90	18.00	5.71
	39	11.10	3.76	13.50	4.83	15.60	5.77	16.10	5.77	16.30	5.81	16.70	5.75	17.10	5.56
43	11.00	4.33	12.90	5.05	14.00	5.47	14.20	5.47	14.40	5.51	14.80	5.45	15.20	5.26	
46	10.30	4.45	11.50	4.83	12.60	5.25	12.80	5.25	13.00	5.29	13.40	5.23	13.90	5.03	
48	9.40	4.30	10.60	4.68	11.70	5.10	11.90	5.10	12.10	5.14	12.50	5.08	12.90	4.88	
100	10	10.10	1.35	12.30	1.67	14.40	2.01	15.50	2.19	16.40	2.36	18.30	2.74	20.20	3.17
	12	10.10	1.41	12.30	1.75	14.40	2.11	15.50	2.30	16.40	2.49	18.30	2.89	20.20	3.35
	14	10.10	1.47	12.30	1.83	14.40	2.22	15.50	2.43	16.40	2.62	18.30	3.06	20.20	3.56
	16	10.10	1.54	12.30	1.92	14.40	2.34	15.50	2.56	16.40	2.78	18.30	3.25	20.20	3.79
	18	10.10	1.61	12.30	2.03	14.40	2.48	15.50	2.72	16.40	2.95	18.30	3.47	20.20	4.05
	20	10.10	1.70	12.30	2.15	14.40	2.64	15.50	2.90	16.40	3.15	18.30	3.71	20.20	4.34
	21	10.10	1.75	12.30	2.21	14.40	2.72	15.50	2.99	16.40	3.26	18.30	3.84	20.20	4.50
	23	10.10	1.86	12.30	2.36	14.40	2.91	15.50	3.20	16.40	3.49	18.30	4.12	20.20	4.84
	25	10.10	1.98	12.30	2.52	14.40	3.11	15.50	3.43	16.40	3.74	18.30	4.43	20.20	5.21
	27	10.10	2.12	12.30	2.70	14.40	3.34	15.50	3.69	16.40	4.02	18.30	4.77	20.20	5.61
	29	10.10	2.27	12.30	2.90	14.40	3.60	15.50	3.97	16.40	4.34	18.30	5.14	20.20	6.06
	31	10.10	2.43	12.30	3.12	14.40	3.87	15.50	4.28	16.40	4.68	18.30	5.55	20.20	6.38
	33	10.10	2.62	12.30	3.36	14.40	4.18	15.50	4.62	16.40	5.05	18.30	5.99	19.50	6.23
	35	10.10	2.82	12.30	3.62	14.40	4.51	15.50	4.99	16.40	5.45	18.20	6.15	18.60	6.08
	37	10.10	3.04	12.30	3.91	14.40	4.87	15.50	5.39	16.40	5.76	17.30	6.00	17.60	5.93
	39	10.10	3.29	12.30	4.22	14.40	5.16	15.30	5.59	16.00	5.79	16.30	5.85	16.70	5.78
43	10.10	3.83	12.00	4.76	13.40	5.21	13.90	5.52	14.10	5.49	14.50	5.55	14.80	5.48	
46	9.70	4.13	10.90	4.71	12.00	4.99	12.50	5.29	12.70	5.26	13.10	5.33	13.40	5.26	
48	8.90	3.98	10.00	4.56	11.00	4.84	11.60	5.14	11.80	5.11	12.10	5.18	12.50	5.11	

10. Capacity Table

AM060BXMD*R

Cooling

TC : Total Capacity, PI : Power Input

Combination, % (Capacity index)	Outdoor temperature (°C, DB)	Indoor temperature (°C, WB)													
		14		16		18		19		20		22		24	
		TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW
90	10	9.10	1.17	11.00	1.45	13.00	1.75	14.00	1.91	14.80	2.06	16.50	2.38	18.10	2.75
	12	9.10	1.21	11.00	1.51	13.00	1.83	14.00	2.00	14.80	2.15	16.50	2.50	18.10	2.90
	14	9.10	1.26	11.00	1.58	13.00	1.92	14.00	2.10	14.80	2.27	16.50	2.64	18.10	3.07
	16	9.10	1.32	11.00	1.65	13.00	2.02	14.00	2.21	14.80	2.39	16.50	2.80	18.10	3.26
	18	9.10	1.38	11.00	1.74	13.00	2.13	14.00	2.34	14.80	2.54	16.50	2.97	18.10	3.47
	20	9.10	1.46	11.00	1.84	13.00	2.26	14.00	2.49	14.80	2.70	16.50	3.17	18.10	3.71
	21	9.10	1.50	11.00	1.89	13.00	2.33	14.00	2.57	14.80	2.79	16.50	3.28	18.10	3.84
	23	9.10	1.59	11.00	2.01	13.00	2.49	14.00	2.74	14.80	2.98	16.50	3.51	18.10	4.12
	25	9.10	1.69	11.00	2.15	13.00	2.66	14.00	2.93	14.80	3.19	16.50	3.77	18.10	4.43
	27	9.10	1.80	11.00	2.30	13.00	2.85	14.00	3.15	14.80	3.43	16.50	4.05	18.10	4.77
	29	9.10	1.93	11.00	2.46	13.00	3.06	14.00	3.38	14.80	3.69	16.50	4.37	18.10	5.15
	31	9.10	2.07	11.00	2.65	13.00	3.29	14.00	3.64	14.80	3.98	16.50	4.71	18.10	5.56
	33	9.10	2.22	11.00	2.85	13.00	3.55	14.00	3.93	14.80	4.29	16.50	5.08	18.10	6.00
	35	9.10	2.39	11.00	3.07	13.00	3.83	14.00	4.24	14.80	4.63	16.50	5.49	18.10	6.54
	37	9.10	2.58	11.00	3.31	13.00	4.14	14.00	4.58	14.80	5.00	16.40	5.81	17.20	6.19
	39	9.10	2.78	11.00	3.58	13.00	4.47	14.00	4.95	14.70	5.30	16.00	5.83	16.30	6.04
43	9.10	3.25	10.90	4.12	12.60	4.94	13.10	5.17	13.60	5.35	14.10	5.53	14.40	5.74	
46	8.90	3.57	10.30	4.24	11.30	4.72	11.70	4.95	12.20	5.12	12.70	5.31	13.00	5.51	
48	8.40	3.60	9.30	4.09	10.30	4.57	10.80	4.80	11.20	4.97	11.80	5.16	12.10	5.36	
80	10	8.10	1.00	9.80	1.24	11.50	1.50	12.40	1.64	13.10	1.77	14.60	2.06	16.10	2.38
	12	8.10	1.03	9.80	1.29	11.50	1.57	12.40	1.71	13.10	1.85	14.60	2.16	16.10	2.50
	14	8.10	1.08	9.80	1.35	11.50	1.64	12.40	1.79	13.10	1.94	14.60	2.27	16.10	2.63
	16	8.10	1.12	9.80	1.41	11.50	1.72	12.40	1.89	13.10	2.04	14.60	2.39	16.10	2.79
	18	8.10	1.18	9.80	1.48	11.50	1.82	12.40	1.99	13.10	2.16	14.60	2.54	16.10	2.96
	20	8.10	1.24	9.80	1.56	11.50	1.92	12.40	2.11	13.10	2.29	14.60	2.70	16.10	3.15
	21	8.10	1.27	9.80	1.61	11.50	1.98	12.40	2.17	13.10	2.36	14.60	2.78	16.10	3.26
	23	8.10	1.34	9.80	1.71	11.50	2.11	12.40	2.32	13.10	2.52	14.60	2.98	16.10	3.49
	25	8.10	1.43	9.80	1.81	11.50	2.25	12.40	2.48	13.10	2.70	14.60	3.19	16.10	3.74
	27	8.10	1.52	9.80	1.94	11.50	2.40	12.40	2.65	13.10	2.89	14.60	3.42	16.10	4.03
	29	8.10	1.62	9.80	2.07	11.50	2.58	12.40	2.85	13.10	3.11	14.60	3.68	16.10	4.34
	31	8.10	1.74	9.80	2.23	11.50	2.77	12.40	3.06	13.10	3.34	14.60	3.97	16.10	4.68
	33	8.10	1.87	9.80	2.40	11.50	2.99	12.40	3.30	13.10	3.61	14.60	4.28	16.10	5.05
	35	8.10	2.01	9.80	2.58	11.50	3.22	12.40	3.56	13.10	3.89	14.60	4.62	16.10	5.45
	37	8.10	2.17	9.80	2.78	11.50	3.48	12.40	3.84	13.10	4.20	14.60	4.99	16.10	5.76
	39	8.10	2.34	9.80	3.01	11.50	3.75	12.40	4.15	13.10	4.54	14.60	5.29	15.80	5.96
43	8.10	2.73	9.80	3.51	11.40	4.25	12.10	4.68	12.70	5.01	13.50	5.34	14.00	5.66	
46	8.00	3.05	9.50	3.81	10.50	4.20	11.00	4.46	11.30	4.79	12.10	5.11	12.60	5.44	
48	7.70	3.24	8.70	3.66	9.60	4.05	10.00	4.31	10.40	4.64	11.20	4.96	11.70	5.29	
70	10	7.10	0.84	8.60	1.06	10.10	1.28	10.90	1.40	11.50	1.51	12.80	1.76	14.10	2.03
	12	7.10	0.87	8.60	1.10	10.10	1.33	10.90	1.46	11.50	1.58	12.80	1.84	14.10	2.13
	14	7.10	0.91	8.60	1.14	10.10	1.39	10.90	1.52	11.50	1.65	12.80	1.93	14.10	2.23
	16	7.10	0.95	8.60	1.19	10.10	1.45	10.90	1.60	11.50	1.73	12.80	2.03	14.10	2.36
	18	7.10	0.99	8.60	1.25	10.10	1.53	10.90	1.68	11.50	1.82	12.80	2.14	14.10	2.50
	20	7.10	1.04	8.60	1.32	10.10	1.61	10.90	1.78	11.50	1.93	12.80	2.27	14.10	2.65
	21	7.10	1.07	8.60	1.35	10.10	1.66	10.90	1.83	11.50	1.99	12.80	2.34	14.10	2.74
	23	7.10	1.13	8.60	1.43	10.10	1.76	10.90	1.94	11.50	2.11	12.80	2.49	14.10	2.92
	25	7.10	1.19	8.60	1.52	10.10	1.88	10.90	2.07	11.50	2.25	12.80	2.67	14.10	3.13
	27	7.10	1.27	8.60	1.62	10.10	2.00	10.90	2.22	11.50	2.41	12.80	2.86	14.10	3.36
	29	7.10	1.35	8.60	1.73	10.10	2.15	10.90	2.37	11.50	2.59	12.80	3.07	14.10	3.61
	31	7.10	1.45	8.60	1.86	10.10	2.30	10.90	2.55	11.50	2.78	12.80	3.30	14.10	3.89
	33	7.10	1.55	8.60	2.00	10.10	2.48	10.90	2.75	11.50	3.00	12.80	3.56	14.10	4.20
	35	7.10	1.67	8.60	2.15	10.10	2.67	10.90	2.96	11.50	3.23	12.80	3.84	14.10	4.53
	37	7.10	1.80	8.60	2.32	10.10	2.88	10.90	3.19	11.50	3.49	12.80	4.15	14.10	4.89
	39	7.10	1.94	8.60	2.50	10.10	3.11	10.90	3.45	11.50	3.77	12.80	4.48	14.10	5.28
43	7.10	2.26	8.60	2.92	10.10	3.63	10.80	3.97	11.30	4.27	12.40	4.95	13.20	5.51	
46	7.10	2.54	8.40	3.25	9.70	3.93	10.20	4.10	10.50	4.22	11.20	4.73	11.80	5.28	
48	6.90	2.74	8.10	3.28	8.90	3.78	9.30	3.95	9.60	4.07	10.20	4.58	10.90	5.13	
60	10	6.10	0.70	7.40	0.88	8.70	1.07	9.30	1.17	9.90	1.27	11.00	1.48	12.10	1.71
	12	6.10	0.72	7.40	0.91	8.70	1.11	9.30	1.22	9.90	1.32	11.00	1.54	12.10	1.78
	14	6.10	0.75	7.40	0.95	8.70	1.16	9.30	1.27	9.90	1.38	11.00	1.61	12.10	1.87
	16	6.10	0.78	7.40	0.99	8.70	1.21	9.30	1.33	9.90	1.44	11.00	1.69	12.10	1.96
	18	6.10	0.82	7.40	1.03	8.70	1.27	9.30	1.39	9.90	1.52	11.00	1.78	12.10	2.07
	20	6.10	0.86	7.40	1.09	8.70	1.33	9.30	1.47	9.90	1.60	11.00	1.88	12.10	2.19
	21	6.10	0.88	7.40	1.11	8.70	1.37	9.30	1.51	9.90	1.64	11.00	1.93	12.10	2.26
	23	6.10	0.92	7.40	1.18	8.70	1.45	9.30	1.60	9.90	1.74	11.00	2.05	12.10	2.41
	25	6.10	0.98	7.40	1.25	8.70	1.54	9.30	1.70	9.90	1.86	11.00	2.19	12.10	2.57
	27	6.10	1.04	7.40	1.33	8.70	1.64	9.30	1.81	9.90	1.98	11.00	2.34	12.10	2.75
	29	6.10	1.11	7.40	1.42	8.70	1.76	9.30	1.94	9.90	2.12	11.00	2.51	12.10	2.95
	31	6.10	1.18	7.40	1.52	8.70	1.89	9.30	2.08	9.90	2.28	11.00	2.70	12.10	3.18
	33	6.10	1.27	7.40	1.63	8.70	2.03	9.30	2.24	9.90	2.45	11.00	2.90	12.10	3.42
	35	6.10	1.36	7.40	1.75	8.70	2.18	9.30	2.41	9.90	2.64	11.00	3.13	12.10	3.69
	37	6.10	1.46	7.40	1.89	8.70	2.35	9.30	2.60	9.90	2.85	11.00	3.38	12.10	3.98
	39	6.10	1.58	7.40	2.03	8.70	2.54	9.30	2.81	9.90	3.08	11.00	3.65	12.10	4.30
43	6.10	1.84	7.40	2.37	8.70	2.96	9.30	3.27	9.90	3.59	10.90	4.19	11.80	4.85	
46	6.10	2.06	7.40	2.66	8.50	3.30	9.00	3.60	9.50	3.89	10.30	4.32	10.80	4.80	
48	6.00	2.23	7.10	2.86	8.20	3.32	8.50	3.63	8.80	3.74	9.30	4.17	9.90	4.65	

10. Capacity Table

AM060BXMD*R

Cooling

TC : Total Capacity, PI : Power Input

Combination, % (Capacity index)	Outdoor temperature (°C, DB)	Indoor temperature (°C, WB)													
		14		16		18		19		20		22		24	
		TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW
50	10	5.00	0.57	6.10	0.71	7.20	0.87	7.80	0.96	8.20	1.04	9.20	1.21	10.10	1.41
	12	5.00	0.58	6.10	0.74	7.20	0.90	7.80	0.99	8.20	1.08	9.20	1.26	10.10	1.47
	14	5.00	0.61	6.10	0.77	7.20	0.94	7.80	1.03	8.20	1.12	9.20	1.31	10.10	1.53
	16	5.00	0.63	6.10	0.80	7.20	0.98	7.80	1.08	8.20	1.17	9.20	1.37	10.10	1.60
	18	5.00	0.66	6.10	0.83	7.20	1.02	7.80	1.13	8.20	1.23	9.20	1.44	10.10	1.68
	20	5.00	0.69	6.10	0.87	7.20	1.07	7.80	1.19	8.20	1.29	9.20	1.52	10.10	1.78
	21	5.00	0.70	6.10	0.90	7.20	1.10	7.80	1.22	8.20	1.33	9.20	1.56	10.10	1.83
	23	5.00	0.74	6.10	0.94	7.20	1.16	7.80	1.29	8.20	1.40	9.20	1.65	10.10	1.94
	25	5.00	0.78	6.10	1.00	7.20	1.23	7.80	1.37	8.20	1.49	9.20	1.76	10.10	2.07
	27	5.00	0.83	6.10	1.06	7.20	1.31	7.80	1.45	8.20	1.59	9.20	1.87	10.10	2.21
	29	5.00	0.88	6.10	1.13	7.20	1.40	7.80	1.55	8.20	1.70	9.20	2.01	10.10	2.36
	31	5.00	0.94	6.10	1.21	7.20	1.50	7.80	1.66	8.20	1.82	9.20	2.15	10.10	2.54
	33	5.00	1.01	6.10	1.29	7.20	1.61	7.80	1.79	8.20	1.95	9.20	2.31	10.10	2.73
	35	5.00	1.08	6.10	1.39	7.20	1.73	7.80	1.92	8.20	2.10	9.20	2.49	10.10	2.94
	37	5.00	1.16	6.10	1.50	7.20	1.86	7.80	2.07	8.20	2.26	9.20	2.69	10.10	3.17
	39	5.00	1.25	6.10	1.61	7.20	2.01	7.80	2.23	8.20	2.44	9.20	2.90	10.10	3.43
43	5.00	1.46	6.10	1.88	7.20	2.34	7.80	2.60	8.20	2.85	9.20	3.38	10.10	4.00	
46	5.00	1.64	6.10	2.11	7.20	2.63	7.80	2.92	8.20	3.18	8.90	3.71	9.70	4.29	
48	5.00	1.77	6.10	2.28	7.00	2.83	7.40	3.12	7.80	3.38	8.40	3.74	8.90	4.15	

NOTE

- The performance table shows the average value of each conditions.

10. Capacity Table

AM060BXMD*R

Heating

TC : Total Capacity, PI : Power Input

Combination, % (Capacity index)	Outdoor temperature (°C, DB)		Indoor temperature (°C, DB)									
			16		18		20		22		24	
	DB	WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
130	-25.0	-25.1	11.80	4.34	11.50	4.71	11.20	4.98	10.80	5.40	10.40	5.66
	-22.0	-22.2	13.80	4.82	13.40	5.19	13.10	5.45	12.70	5.87	11.80	6.03
	-20.0	-20.2	15.10	5.13	14.70	5.50	14.40	5.76	13.60	6.08	12.40	6.13
	-17.0	-17.3	17.00	5.61	16.70	5.98	15.90	6.13	14.60	6.24	13.40	6.29
	-15.0	-15.3	18.30	5.92	17.70	6.19	16.60	6.24	15.20	6.34	14.10	6.40
	-12.0	-12.4	19.70	6.29	18.60	6.34	17.50	6.40	16.20	6.50	15.00	6.55
	-10.0	-10.5	20.40	6.40	19.30	6.45	18.20	6.50	16.80	6.61	15.70	6.66
	-7.0	-7.6	21.30	6.55	20.20	6.61	19.20	6.66	17.80	6.76	16.60	6.82
	-5.0	-5.6	22.00	6.66	20.90	6.71	19.80	6.76	18.50	6.87	17.30	6.92
	-3.0	-3.7	22.60	6.76	21.50	6.82	20.50	6.87	19.10	6.97	17.90	7.03
	0.0	-0.7	23.60	6.92	22.50	6.97	21.40	7.03	20.10	7.13	18.90	7.18
	3.0	2.2	24.60	7.08	23.50	7.13	22.40	7.18	21.00	7.29	19.50	7.29
	5.0	4.1	25.20	7.18	24.10	7.24	22.80	7.29	21.20	7.29	19.70	7.25
	7.0	6.0	25.70	7.29	24.30	7.29	23.00	7.29	21.40	7.29	19.70	6.77
	9.0	7.9	25.90	7.29	24.50	7.29	23.10	7.29	21.50	7.14	19.70	6.35
11.0	9.8	26.10	7.29	24.70	7.29	23.30	7.29	21.50	6.71	19.70	5.98	
13.0	11.8	26.20	7.29	24.90	7.29	23.40	7.04	21.50	6.33	19.70	5.66	
15.0	13.7	26.40	7.29	25.00	7.27	23.40	6.64	21.50	5.99	19.70	5.37	
120	-25.0	-25.1	11.40	4.77	11.10	5.03	10.80	5.29	10.50	5.66	9.90	5.74
	-22.0	-22.2	13.40	5.24	13.10	5.50	12.80	5.76	12.00	6.03	10.90	5.90
	-20.0	-20.2	14.70	5.55	14.40	5.82	13.80	6.08	12.70	6.13	11.50	6.00
	-17.0	-17.3	16.60	6.03	15.80	6.19	14.80	6.24	13.70	6.29	12.50	6.16
	-15.0	-15.3	17.40	6.24	16.40	6.29	15.50	6.34	14.30	6.40	13.20	6.27
	-12.0	-12.4	18.40	6.40	17.40	6.45	16.40	6.50	15.30	6.55	14.10	6.42
	-10.0	-10.5	19.00	6.50	18.10	6.55	17.10	6.61	15.90	6.66	14.80	6.53
	-7.0	-7.6	20.00	6.66	19.00	6.71	18.00	6.76	16.90	6.82	15.70	6.69
	-5.0	-5.6	20.70	6.76	19.70	6.82	18.70	6.87	17.50	6.92	16.40	6.79
	-3.0	-3.7	21.30	6.87	20.30	6.92	19.30	6.97	18.20	7.03	17.00	6.90
	0.0	-0.7	22.30	7.03	21.30	7.08	20.30	7.13	19.20	7.18	18.00	7.06
	3.0	2.2	23.30	7.18	22.30	7.24	21.20	7.29	19.80	7.29	18.10	6.61
	5.0	4.1	23.90	7.29	22.70	7.29	21.40	7.29	19.90	6.97	18.10	6.17
	7.0	6.0	24.10	7.29	22.80	7.29	21.60	7.28	19.90	6.51	18.10	5.77
	9.0	7.9	24.30	7.29	23.00	7.29	21.60	6.82	19.90	6.11	18.10	5.43
11.0	9.8	24.40	7.29	23.10	7.03	21.60	6.40	19.90	5.75	18.10	5.12	
13.0	11.8	24.60	7.24	23.10	6.62	21.60	6.04	19.90	5.44	18.10	4.85	
15.0	13.7	24.60	6.82	23.10	6.25	21.60	5.71	19.90	5.16	18.10	4.62	
110	-25.0	-25.1	11.00	5.03	10.70	5.40	10.50	5.55	10.00	5.46	8.80	4.92
	-22.0	-22.2	12.90	5.50	12.70	5.87	12.10	6.03	10.90	5.62	9.70	5.08
	-20.0	-20.2	14.20	5.82	13.60	6.08	12.70	6.13	11.60	5.72	10.40	5.19
	-17.0	-17.3	15.60	6.19	14.60	6.24	13.70	6.29	12.60	5.88	11.30	5.35
	-15.0	-15.3	16.20	6.29	15.20	6.34	14.30	6.40	13.20	5.98	12.00	5.45
	-12.0	-12.4	17.20	6.45	16.20	6.50	15.30	6.55	14.20	6.14	13.00	5.61
	-10.0	-10.5	17.80	6.55	16.90	6.61	16.00	6.66	14.80	6.25	13.60	5.71
	-7.0	-7.6	18.80	6.71	17.80	6.76	16.90	6.82	15.80	6.40	14.60	5.87
	-5.0	-5.6	19.40	6.82	18.50	6.87	17.60	6.92	16.50	6.51	15.20	5.98
	-3.0	-3.7	20.10	6.92	19.10	6.97	18.20	7.03	17.10	6.61	15.90	6.08
	0.0	-0.7	21.10	7.08	20.10	7.13	19.20	7.18	18.10	6.77	16.60	6.24
	3.0	2.2	22.00	7.24	20.90	7.29	19.80	7.13	18.20	6.35	16.60	5.61
	5.0	4.1	22.30	7.29	21.10	7.29	19.80	6.64	18.20	5.92	16.60	5.24
	7.0	6.0	22.50	7.29	21.20	6.84	19.80	6.20	18.20	5.54	16.60	4.91
	9.0	7.9	22.60	7.03	21.20	6.41	19.80	5.82	18.20	5.21	16.60	4.63
11.0	9.8	22.60	6.60	21.20	6.02	19.80	5.48	18.20	4.92	16.60	4.38	
13.0	11.8	22.60	6.21	21.20	5.68	19.80	5.18	18.20	4.66	16.60	4.16	
15.0	13.7	22.60	5.87	21.20	5.38	19.80	4.92	18.20	4.44	16.60	3.97	
100	-25.0	-25.1	10.60	5.40	10.30	5.28	9.80	5.11	8.70	4.66	7.60	4.20
	-22.0	-22.2	12.50	5.87	11.70	5.65	10.80	5.27	9.70	4.82	8.60	4.36
	-20.0	-20.2	13.30	6.08	12.40	5.75	11.40	5.38	10.30	4.92	9.20	4.47
	-17.0	-17.3	14.20	6.24	13.40	5.91	12.40	5.53	11.30	5.08	10.20	4.62
	-15.0	-15.3	14.90	6.34	14.00	6.02	13.00	5.64	11.90	5.18	10.80	4.73
	-12.0	-12.4	15.90	6.50	15.00	6.17	14.00	5.80	12.90	5.34	11.80	4.89
	-10.0	-10.5	16.50	6.61	15.60	6.28	14.70	5.90	13.60	5.45	12.50	4.99
	-7.0	-7.6	17.50	6.76	16.60	6.44	15.60	6.06	14.50	5.60	13.40	5.15
	-5.0	-5.6	18.10	6.87	17.30	6.54	16.30	6.16	15.20	5.71	14.10	5.26
	-3.0	-3.7	18.80	6.97	17.90	6.65	16.90	6.27	15.80	5.82	14.70	5.36
	0.0	-0.7	19.80	7.13	18.90	6.80	17.90	6.43	16.60	5.97	15.10	5.27
	3.0	2.2	20.40	7.29	19.30	6.66	18.00	6.03	16.60	5.37	15.10	4.74
	5.0	4.1	20.50	6.84	19.30	6.21	18.00	5.62	16.60	5.01	15.10	4.44
	7.0	6.0	20.50	6.38	19.30	5.80	18.00	5.26	16.60	4.70	15.10	4.17
	9.0	7.9	20.50	5.98	19.30	5.45	18.00	4.95	16.60	4.43	15.10	3.94
11.0	9.8	20.50	5.63	19.30	5.13	18.00	4.67	16.60	4.19	15.10	3.73	
13.0	11.8	20.50	5.31	19.30	4.86	18.00	4.43	16.60	3.98	15.10	3.55	
15.0	13.7	20.50	5.04	19.30	4.61	18.00	4.21	16.60	3.80	15.10	3.40	

10. Capacity Table

AM060BXMD*R

Heating

TC : Total Capacity, PI : Power Input

Combination, % (Capacity index)	Outdoor temperature (°C, DB)		Indoor temperature (°C, DB)									
			16		18		20		22		24	
	DB	WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
90	-25.0	-25.1	10.20	5.44	9.30	5.08	8.40	4.46	7.40	4.07	6.40	3.66
	-22.0	-22.2	11.10	5.60	10.30	5.24	9.40	4.62	8.40	4.22	7.40	3.82
	-20.0	-20.2	11.80	5.70	10.90	5.35	10.00	4.72	9.00	4.33	8.00	3.92
	-17.0	-17.3	12.80	5.86	11.90	5.50	11.00	4.88	10.00	4.49	9.00	4.08
	-15.0	-15.3	13.40	5.97	12.50	5.61	11.70	4.99	10.70	4.59	9.70	4.19
	-12.0	-12.4	14.40	6.12	13.50	5.77	12.60	5.14	11.60	4.75	10.60	4.34
	-10.0	-10.5	15.00	6.23	14.20	5.87	13.30	5.25	12.30	4.85	11.30	4.45
	-7.0	-7.6	16.00	6.39	15.10	6.03	14.30	5.41	13.30	5.01	12.30	4.61
	-5.0	-5.6	16.60	6.49	15.80	6.14	14.90	5.51	13.90	5.12	12.90	4.71
	-3.0	-3.7	17.30	6.60	16.40	6.24	15.50	5.62	14.50	5.22	13.60	4.82
	0.0	-0.7	18.30	6.75	17.30	6.40	16.20	5.78	14.90	5.14	13.60	4.53
	3.0	2.2	18.50	6.33	17.30	5.74	16.20	5.19	14.90	4.63	13.60	4.09
	5.0	4.1	18.50	5.90	17.30	5.36	16.20	4.85	14.90	4.33	13.60	3.84
	7.0	6.0	18.50	5.52	17.30	5.02	16.20	4.55	14.90	4.07	13.60	3.61
	9.0	7.9	18.50	5.19	17.30	4.73	16.20	4.29	14.90	3.84	13.60	3.42
80	-25.0	-25.1	8.60	4.70	7.80	4.38	7.00	4.07	6.20	3.71	5.30	3.13
	-22.0	-22.2	9.60	4.85	8.80	4.54	8.00	4.23	7.10	3.86	6.20	3.29
	-20.0	-20.2	10.20	4.96	9.40	4.64	8.70	4.34	7.80	3.97	6.90	3.40
	-17.0	-17.3	11.20	5.12	10.40	4.80	9.60	4.49	8.70	4.13	7.90	3.55
	-15.0	-15.3	11.80	5.22	11.10	4.91	10.30	4.60	9.40	4.23	8.50	3.66
	-12.0	-12.4	12.80	5.38	12.00	5.06	11.20	4.76	10.40	4.39	9.50	3.82
	-10.0	-10.5	13.50	5.48	12.70	5.17	11.90	4.86	11.00	4.49	10.10	3.92
	-7.0	-7.6	14.40	5.64	13.60	5.33	12.90	5.02	12.00	4.65	11.10	4.08
	-5.0	-5.6	15.10	5.75	14.30	5.43	13.50	5.13	12.60	4.76	11.70	4.19
	-3.0	-3.7	15.70	5.85	14.90	5.54	14.20	5.23	13.30	4.86	12.10	4.29
	0.0	-0.7	16.40	6.01	15.40	5.44	14.40	4.91	13.30	4.36	12.10	3.86
	3.0	2.2	16.40	5.40	15.40	4.90	14.40	4.43	13.30	3.94	12.10	3.49
	5.0	4.1	16.40	5.05	15.40	4.58	14.40	4.15	13.30	3.70	12.10	3.28
	7.0	6.0	16.40	4.73	15.40	4.30	14.40	3.90	13.30	3.48	12.10	3.09
	9.0	7.9	16.40	4.46	15.40	4.06	14.40	3.69	13.30	3.30	12.10	2.93
70	-25.0	-25.1	7.00	4.20	6.30	3.69	5.70	3.42	4.90	3.12	4.10	2.61
	-22.0	-22.2	8.00	4.35	7.30	3.84	6.60	3.58	5.80	3.27	5.10	2.77
	-20.0	-20.2	8.60	4.46	7.90	3.95	7.30	3.68	6.50	3.38	5.70	2.88
	-17.0	-17.3	9.60	4.62	8.90	4.11	8.20	3.84	7.50	3.54	6.70	3.04
	-15.0	-15.3	10.20	4.72	9.60	4.21	8.90	3.94	8.10	3.64	7.30	3.14
	-12.0	-12.4	11.20	4.88	10.50	4.37	9.90	4.10	9.10	3.80	8.30	3.30
	-10.0	-10.5	11.90	4.98	11.20	4.48	10.50	4.21	9.70	3.90	9.00	3.40
	-7.0	-7.6	12.80	5.14	12.20	4.63	11.50	4.37	10.70	4.06	9.90	3.56
	-5.0	-5.6	13.50	5.25	12.80	4.74	12.10	4.47	11.40	4.17	10.60	3.67
	-3.0	-3.7	14.10	5.35	13.50	4.84	12.60	4.58	11.60	4.07	10.60	3.59
	0.0	-0.7	14.40	5.03	13.50	4.56	12.60	4.11	11.60	3.66	10.60	3.23
	3.0	2.2	14.40	4.53	13.50	4.11	12.60	3.72	11.60	3.31	10.60	2.93
	5.0	4.1	14.40	4.24	13.50	3.86	12.60	3.49	11.60	3.12	10.60	2.76
	7.0	6.0	14.40	3.99	13.50	3.63	12.60	3.29	11.60	2.94	10.60	2.61
	9.0	7.9	14.40	3.77	13.50	3.44	12.60	3.12	11.60	2.79	10.60	2.48
60	-25.0	-25.1	5.40	3.42	4.90	3.20	4.30	2.78	3.60	2.52	2.90	2.27
	-22.0	-22.2	6.40	3.58	5.80	3.36	5.20	2.94	4.60	2.68	3.90	2.43
	-20.0	-20.2	7.00	3.69	6.50	3.47	5.90	3.04	5.20	2.78	4.60	2.54
	-17.0	-17.3	8.00	3.85	7.40	3.62	6.90	3.20	6.20	2.94	5.50	2.69
	-15.0	-15.3	8.70	3.95	8.10	3.73	7.50	3.31	6.80	3.05	6.20	2.80
	-12.0	-12.4	9.60	4.11	9.10	3.89	8.50	3.46	7.80	3.20	7.10	2.96
	-10.0	-10.5	10.30	4.21	9.70	3.99	9.10	3.57	8.50	3.31	7.80	3.06
	-7.0	-7.6	11.30	4.37	10.70	4.15	10.10	3.73	9.40	3.47	8.80	3.22
	-5.0	-5.6	11.90	4.48	11.30	4.25	10.70	3.83	9.90	3.57	9.10	3.16
	-3.0	-3.7	12.30	4.58	11.60	4.15	10.80	3.75	9.90	3.52	9.10	2.94
	0.0	-0.7	12.30	4.12	11.60	3.73	10.80	3.37	9.90	3.00	9.10	2.65
	3.0	2.2	12.30	3.73	11.60	3.38	10.80	3.06	9.90	2.72	9.10	2.42
	5.0	4.1	12.30	3.50	11.60	3.18	10.80	2.88	9.90	2.57	9.10	2.28
	7.0	6.0	12.30	3.30	11.60	3.00	10.80	2.72	9.90	2.43	9.10	2.16
	9.0	7.9	12.30	3.13	11.60	2.85	10.80	2.59	9.90	2.31	9.10	2.06

10. Capacity Table

AM060BXMD*R

Heating

TC : Total Capacity, PI : Power Input

Combination, % (Capacity index)	Outdoor temperature (°C, DB)		Indoor temperature (°C, DB)									
			16		18		20		22		24	
	DB	WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
50	-25.0	-25.1	3.90	2.87	3.40	2.50	2.90	2.32	2.30	1.95	1.80	1.76
	-22.0	-22.2	4.80	3.03	4.30	2.66	3.90	2.48	3.30	2.11	2.70	1.92
	-20.0	-20.2	5.50	3.14	5.00	2.76	4.50	2.58	3.90	2.21	3.40	2.02
	-17.0	-17.3	6.40	3.29	6.00	2.92	5.50	2.74	4.90	2.37	4.40	2.18
	-15.0	-15.3	7.10	3.40	6.60	3.02	6.10	2.85	5.60	2.48	5.00	2.28
	-12.0	-12.4	8.10	3.56	7.60	3.18	7.10	3.00	6.50	2.63	6.00	2.44
	-10.0	-10.5	8.70	3.66	8.20	3.29	7.70	3.11	7.20	2.74	6.60	2.55
	-7.0	-7.6	9.70	3.82	9.20	3.44	8.70	3.27	8.20	2.90	7.60	2.70
	-5.0	-5.6	10.30	3.93	9.60	3.55	9.00	3.20	8.30	2.85	7.60	2.52
	-3.0	-3.7	10.30	3.65	9.60	3.30	9.00	2.98	8.30	2.65	7.60	2.35
	0.0	-0.7	10.30	3.29	9.60	2.98	9.00	2.69	8.30	2.40	7.60	2.12
	3.0	2.2	10.30	2.99	9.60	2.71	9.00	2.45	8.30	2.19	7.60	1.94
	5.0	4.1	10.30	2.81	9.60	2.56	9.00	2.31	8.30	2.07	7.60	1.83
	7.0	6.0	10.30	2.66	9.60	2.42	9.00	2.19	8.30	1.96	7.60	1.74
	9.0	7.9	10.30	2.53	9.60	2.30	9.00	2.09	8.30	1.87	7.60	1.66
	11.0	9.8	10.30	2.42	9.60	2.20	9.00	2.00	8.30	1.79	7.60	1.59
13.0	11.8	10.30	2.32	9.60	2.12	9.00	1.92	8.30	1.72	7.60	1.53	
15.0	13.7	10.30	2.23	9.60	2.04	9.00	1.85	8.30	1.67	7.60	1.48	

NOTE

- The performance table shows the average value of each conditions.

11. Capacity Correction

AM040NXMD*R/EU

Cooling



		Pipe Length (m)															
		7.5	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
Level Difference (m)	50	-	-	-	-	-	0.95	0.94	0.93	0.93	0.93	0.92	0.91	0.90	0.89	0.89	0.88
	40	-	-	-	-	0.96	0.96	0.95	0.94	0.93	0.93	0.92	0.91	0.90	0.90	0.89	0.88
	30	-	-	-	0.97	0.97	0.96	0.95	0.94	0.93	0.93	0.92	0.92	0.91	0.90	0.89	0.89
	20	-	-	0.98	0.98	0.97	0.96	0.95	0.94	0.93	0.93	0.93	0.92	0.91	0.90	0.89	0.89
	10	-	0.99	0.98	0.98	0.97	0.96	0.95	0.94	0.94	0.94	0.93	0.92	0.91	0.90	0.90	0.89
	0	1.00	0.99	0.99	0.98	0.97	0.96	0.95	0.94	0.94	0.94	0.93	0.92	0.91	0.90	0.90	0.89
	-10	-	1.00	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.94	0.93	0.92	0.91	0.91	0.90	0.89
	-20	-	-	0.99	0.98	0.98	0.97	0.96	0.95	0.94	0.94	0.93	0.92	0.92	0.91	0.90	0.90
	-30	-	-	-	0.99	0.98	0.97	0.96	0.95	0.94	0.94	0.93	0.93	0.92	0.91	0.90	0.90
	-40	-	-	-	-	0.98	0.97	0.96	0.95	0.95	0.95	0.94	0.93	0.92	0.91	0.91	0.90

Heating



		Pipe Length (m)															
		7.5	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
Level Difference (m)	50	-	-	-	-	-	0.98	0.98	0.98	0.97	0.97	0.97	0.97	0.96	0.96	0.96	0.95
	40	-	-	-	-	0.99	0.98	0.98	0.98	0.97	0.97	0.97	0.97	0.96	0.96	0.96	0.95
	30	-	-	-	0.99	0.99	0.98	0.98	0.98	0.97	0.97	0.97	0.97	0.96	0.96	0.96	0.95
	20	-	-	0.99	0.99	0.99	0.98	0.98	0.98	0.97	0.97	0.97	0.97	0.96	0.96	0.96	0.95
	10	-	1.00	0.99	0.99	0.99	0.98	0.98	0.98	0.97	0.97	0.97	0.97	0.96	0.96	0.96	0.95
	0	1.00	1.00	0.99	0.99	0.99	0.98	0.98	0.98	0.97	0.97	0.97	0.97	0.96	0.96	0.96	0.95
	-10	-	1.00	0.99	0.99	0.99	0.98	0.98	0.98	0.97	0.97	0.97	0.97	0.96	0.96	0.96	0.95
	-20	-	-	0.99	0.99	0.99	0.98	0.98	0.98	0.97	0.97	0.97	0.97	0.96	0.96	0.96	0.95
	-30	-	-	-	0.99	0.99	0.98	0.98	0.98	0.97	0.97	0.97	0.97	0.96	0.96	0.96	0.95
	-40	-	-	-	-	0.99	0.98	0.98	0.98	0.97	0.97	0.97	0.97	0.96	0.96	0.96	0.95

11. Capacity Correction

AM050NXMD*R/EU

Cooling



		Pipe Length (m)															
		7.5	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
Level Difference (m)	50	-	-	-	-	-	0.94	0.93	0.92	0.92	0.92	0.91	0.90	0.89	0.88	0.88	0.87
	40	-	-	-	-	0.95	0.95	0.94	0.93	0.92	0.92	0.91	0.90	0.89	0.89	0.88	0.87
	30	-	-	-	0.97	0.96	0.95	0.94	0.93	0.92	0.92	0.91	0.91	0.90	0.89	0.88	0.87
	20	-	-	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.92	0.92	0.91	0.90	0.89	0.88	0.87
	10	-	0.99	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.93	0.92	0.91	0.90	0.89	0.88	0.88
	0	1.00	0.99	0.98	0.97	0.96	0.95	0.94	0.93	0.93	0.93	0.92	0.91	0.90	0.89	0.89	0.88
	-10	-	0.99	0.98	0.97	0.96	0.96	0.95	0.94	0.93	0.93	0.92	0.91	0.90	0.90	0.89	0.88
	-20	-	-	0.99	0.98	0.97	0.96	0.95	0.94	0.93	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	-30	-	-	-	0.98	0.97	0.96	0.95	0.94	0.93	0.93	0.92	0.92	0.91	0.90	0.89	0.88
	-40	-	-	-	-	0.97	0.96	0.95	0.94	0.93	0.94	0.93	0.92	0.91	0.90	0.89	0.89

Heating



		Pipe Length (m)															
		7.5	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
Level Difference (m)	50	-	-	-	-	-	0.98	0.97	0.97	0.96	0.97	0.96	0.96	0.95	0.95	0.95	0.94
	40	-	-	-	-	0.98	0.98	0.97	0.97	0.96	0.97	0.96	0.96	0.95	0.95	0.95	0.94
	30	-	-	-	0.99	0.98	0.98	0.97	0.97	0.96	0.97	0.96	0.96	0.95	0.95	0.95	0.94
	20	-	-	0.99	0.99	0.98	0.98	0.97	0.97	0.96	0.97	0.96	0.96	0.95	0.95	0.95	0.94
	10	-	1.00	0.99	0.99	0.98	0.98	0.97	0.97	0.96	0.97	0.96	0.96	0.95	0.95	0.95	0.94
	0	1.00	1.00	0.99	0.99	0.98	0.98	0.97	0.97	0.96	0.97	0.96	0.96	0.95	0.95	0.95	0.94
	-10	-	1.00	0.99	0.99	0.98	0.98	0.97	0.97	0.96	0.97	0.96	0.96	0.95	0.95	0.95	0.94
	-20	-	-	0.99	0.99	0.98	0.98	0.97	0.97	0.96	0.97	0.96	0.96	0.95	0.95	0.95	0.94
	-30	-	-	-	0.99	0.98	0.98	0.97	0.97	0.96	0.97	0.96	0.96	0.95	0.95	0.95	0.94
	-40	-	-	-	-	0.98	0.98	0.97	0.97	0.96	0.97	0.96	0.96	0.95	0.95	0.95	0.94

11. Capacity Correction

AM060NXMD*R/EU

Cooling



		Pipe Length (m)															
		7.5	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
Level Difference (m)	50	-	-	-	-	-	0.95	0.94	0.93	0.93	0.93	0.92	0.91	0.90	0.89	0.89	0.88
	40	-	-	-	-	0.96	0.96	0.95	0.94	0.93	0.93	0.92	0.91	0.90	0.90	0.89	0.88
	30	-	-	-	0.97	0.97	0.96	0.95	0.94	0.93	0.93	0.92	0.92	0.91	0.90	0.89	0.89
	20	-	-	0.98	0.98	0.97	0.96	0.95	0.94	0.93	0.93	0.93	0.92	0.91	0.90	0.89	0.89
	10	-	0.99	0.98	0.98	0.97	0.96	0.95	0.94	0.94	0.94	0.93	0.92	0.91	0.90	0.90	0.89
	0	1.00	0.99	0.99	0.98	0.97	0.96	0.95	0.94	0.94	0.94	0.93	0.92	0.91	0.90	0.90	0.89
	-10	-	1.00	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.94	0.93	0.92	0.91	0.91	0.90	0.89
	-20	-	-	0.99	0.98	0.98	0.97	0.96	0.95	0.94	0.94	0.93	0.92	0.92	0.91	0.90	0.90
	-30	-	-	-	0.99	0.98	0.97	0.96	0.95	0.94	0.94	0.93	0.93	0.92	0.91	0.90	0.90
	-40	-	-	-	-	0.98	0.97	0.96	0.95	0.95	0.95	0.94	0.93	0.92	0.91	0.91	0.90

Heating



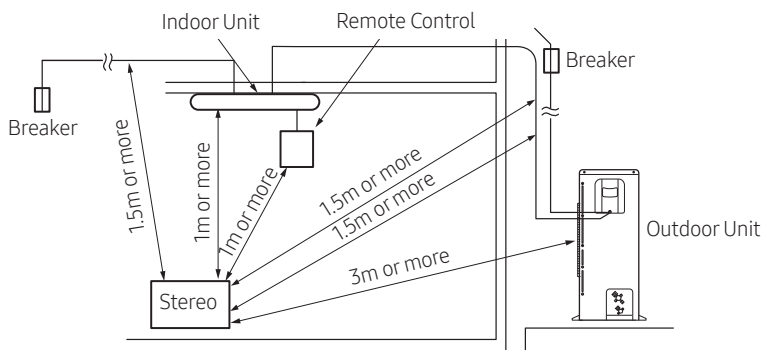
		Pipe Length (m)															
		7.5	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
Level Difference (m)	50	-	-	-	-	-	0.98	0.98	0.98	0.97	0.97	0.97	0.97	0.96	0.96	0.96	0.95
	40	-	-	-	-	0.99	0.98	0.98	0.98	0.97	0.97	0.97	0.97	0.96	0.96	0.96	0.95
	30	-	-	-	0.99	0.99	0.98	0.98	0.98	0.97	0.97	0.97	0.97	0.96	0.96	0.96	0.95
	20	-	-	0.99	0.99	0.99	0.98	0.98	0.98	0.97	0.97	0.97	0.97	0.96	0.96	0.96	0.95
	10	-	1.00	0.99	0.99	0.99	0.98	0.98	0.98	0.97	0.97	0.97	0.97	0.96	0.96	0.96	0.95
	0	1.00	1.00	0.99	0.99	0.99	0.98	0.98	0.98	0.97	0.97	0.97	0.97	0.96	0.96	0.96	0.95
	-10	-	1.00	0.99	0.99	0.99	0.98	0.98	0.98	0.97	0.97	0.97	0.97	0.96	0.96	0.96	0.95
	-20	-	-	0.99	0.99	0.99	0.98	0.98	0.98	0.97	0.97	0.97	0.97	0.96	0.96	0.96	0.95
	-30	-	-	-	0.99	0.99	0.98	0.98	0.98	0.97	0.97	0.97	0.97	0.96	0.96	0.96	0.95
	-40	-	-	-	-	0.99	0.98	0.98	0.98	0.97	0.97	0.97	0.97	0.96	0.96	0.96	0.95

12. Installation

Space requirement for installation



- Install the indoor unit away from any interfering sources such as radio, computer, stereo equipment and also select a place where the electrical wiring work and an indoor unit installation are possible.
 - Especially keep the unit at least 3m away from the electrical equipment in an area where weak electromagnetic waves are generated and install the protection tube to protect the main power cable and communication cable.
 - Make sure that there is no equipment that generates electromagnetic waves. If so, malfunction of the control system may occur due to the effect of the electromagnetic wave. (For example: The remote control sensor of the indoor unit may not have good reception in an area with fluorescent lamp style lighting.)
- Make sure the outdoor unit is installed in a safe place where it will not be obstructed by snowfall. The frame should be installed in a place where the air inlet and heat exchanger of the unit are not buried in the snow.
- A ventilation system may be required when the outdoor unit is installed in a closed space or room, even though R-410a is not poisonous or flammable.
- Install railing around the outdoor unit to prevent it falling when the unit is installed on a high place such as the roof of the building.
- Avoid installing the units in places near an exhaust pipe and ventilating opening exposed to corrosive gas, oxides of sulfur, ammonia gas or sulfur gas herbicides. (These places need additional anticorrosive treatments. Please contact manufacture to avoid corroding copper pipes or soldered parts.)
- There shouldn't be any inflammable material such as wood and oil around the indoor unit. Otherwise, external fire may spread to the product.
- According to the condition of power supply, electric noise or unstable voltage can occur malfunction of electric parts or control system. (At the ship or places using power supply from electric generator... etc)



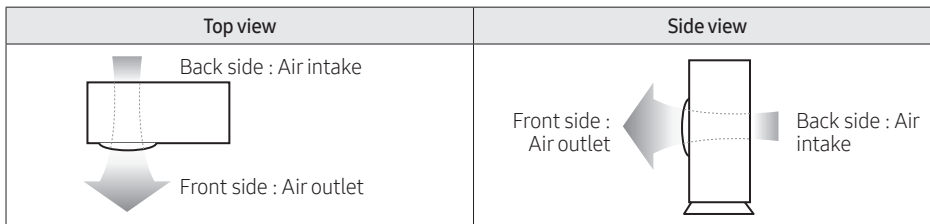
- ▶ Make sure that the water dripping from the drain hose runs away correctly and safely.
- ▶ You should repaint or protect the damaged part so that the paint of the cabinet does not peel off and become rusty during installation. When the cabinet becomes rusty, the life of an outdoor will be reduced.

12. Installation

Space requirement for installation

- ▶ Make a space for ventilation and service as seen in the picture.
- ▶ When multiple outdoor units are combined for installation, allow enough space for ventilation against a wall. If the ventilation space is not allowed, product malfunction may occur.
- ▶ The side with logo is the front side of the outdoor unit.

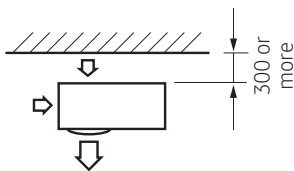
※ Figure Description



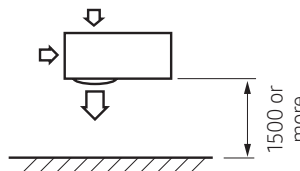
• Air flow direction.

When installing 1 outdoor unit

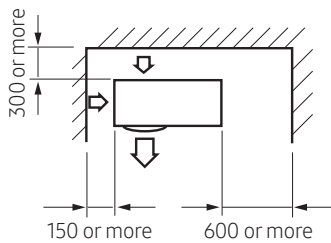
※ When the air outlet is opposite the wall



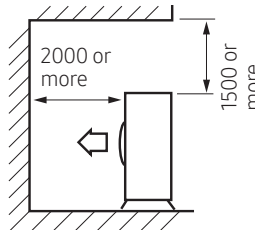
※ When the air outlet is toward the wall (Unit : mm)



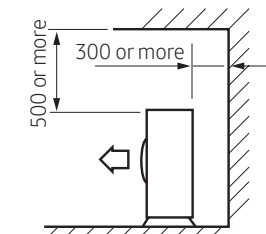
※ When 3 sides of the outdoor unit are blocked by the wall



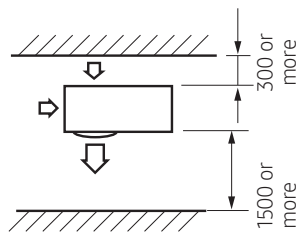
※ The upper part of the outdoor unit is blocked and the air outlet is toward the wall



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



※ When the walls are blocking front and the rear of the outdoor unit



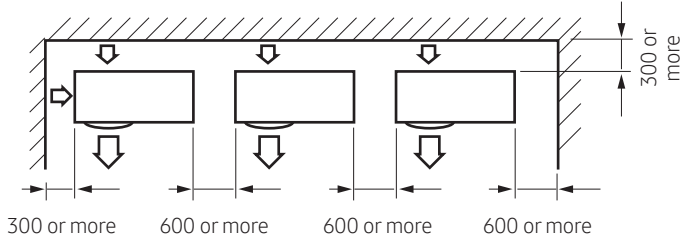
12. Installation

Space requirement for installation

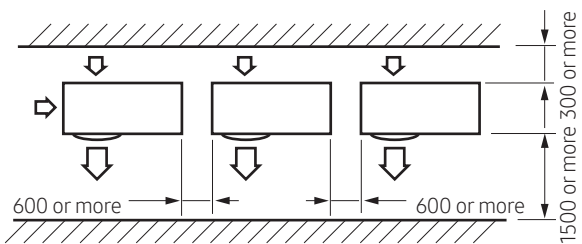
When installing more than 1 outdoor unit

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

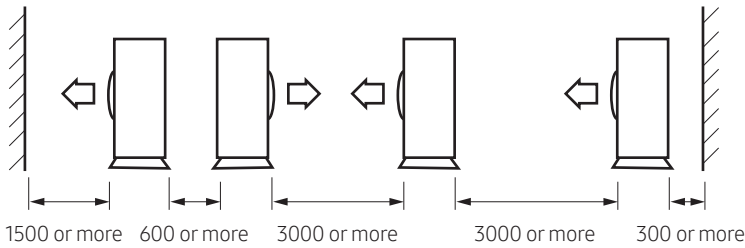
(Unit : mm)



※ When the walls are blocking front and the rear of the outdoor units



※ When front and rear side of the outdoor unit is toward the wall



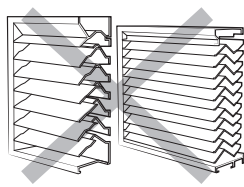
WARNING

• Should adopt bar type louver. Don't use a type of rain resistance louver.

[Bar type louver]



[Rain resistance louver]

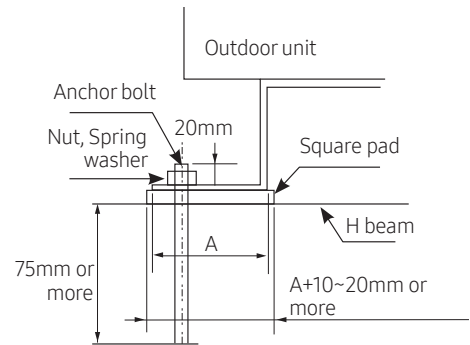


- Louver specifications.
 - Angle criteria : less than 20°
 - Opening ratio criteria : greater than 80%

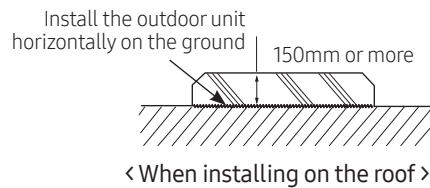
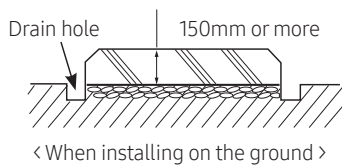
12. Installation

Installation and base ground work for an outdoor unit

- ▶ Install the outdoor unit 150mm higher than the base ground and install the drain hole to connect the pipe to the drainage.
- ▶ When the front fan of an outdoor unit is installed in a place where the average snowfall is more than 150mm, the discharge duct should be attached to the outdoor unit.
- ▶ The concrete foundation should be 1.5 times larger than bottom of the outdoor unit.
- ▶ It is necessary to install wire mesh or steel bar when outdoor units are installed on a soft foundation.
- ▶ When installing multiple outdoor units at the same place, install the H beam on the base ground. (When installing a number of outdoor units, you can install it on the base ground.)
- ▶ Install the H beam(150mm x 150mm x t10 : basic specification) or vibration absorption frame to jut out from the base ground.
- ▶ After installing the H beam, apply corrosion protection.
- ▶ Install a square pad(t=20mm or more) to prevent vibration from the outdoor unit onto the base ground. Place the outdoor unit on the H beam and fix it with the bolt, nut and washer. (Fix with M10 basic anchor bolt, nut and washer.)

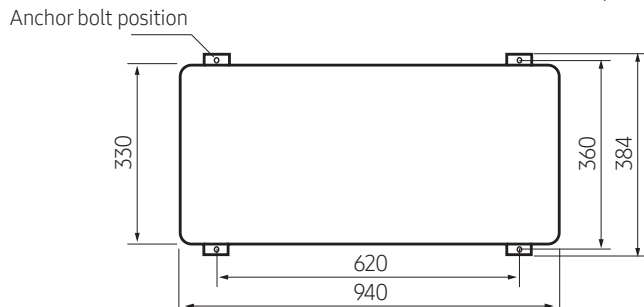


Base ground work

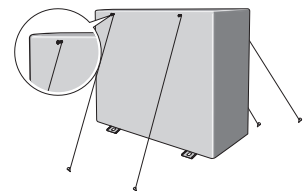


- ▶ The outdoor unit should be supported within the range of measurement below for base ground work.

(Unit : mm)



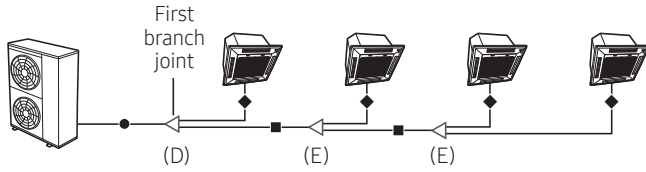
- ▶ When the outdoor unit needs to be supported, fix it with wire as shown in the picture.
 - Slightly unwind the four screws on the cover top of the outdoor unit.
 - Wind wires round the four screws and fasten the screws again.
 - Fix the wires to the ground.



12. Installation

Refrigerant pipe installation

Selecting refrigerant pipe and branch joint for Heat Pump



- ▶ Install the refrigerant pipe according to the main pipe size of each outdoor unit capacity.
- ▶ When the pipe length between an outdoor unit and the farthest indoor unit including elbow exceeds 90m, the gas pipe size should be upgraded one step among the main pipes from the outdoor unit to the first branch joint. (The liquid pipe size will be maintained.)
- ▶ If the capacity of the outdoor unit can decline due to the pipe length, upgrade the pipe size one step (gas pipe).
- ※ For the case that the diameter of the default pipe of an outdoor unit does not match that of the pipe installed on the site, use a socket provided by default together with the outdoor unit of 4/5 HP.

The size of the pipe between an outdoor unit and the first branch joints (A)

Select the size of the main pipe according to the table below.

Outdoor unit capacity (HP)	Maximum pipe length within 90 m		Maximum pipe length over 90 m	
	Liquid pipe (mm)	Gas pipe (mm)	Liquid pipe (mm)	Gas pipe (mm)
4	ø9.52	ø15.88	ø9.52	ø19.05
5	ø9.52	ø15.88	ø9.52	ø19.05
6	ø9.52	ø19.05	ø9.52	ø22.22

* Maximum pipe length : The pipe length between an outdoor unit and the farthest indoor unit.

The size of the pipe between the branch joints (B)

Select the pipe size according to the sum of indoor unit capacity which will be connected after the branch.

- ※ However, if the size of the pipe between branch joints (B) is bigger than the size of the pipe connected to the outdoor unit (A), select the pipe size (A).

Indoor unit total capacity (kW)	Liquid pipe (mm)	Gas pipe (mm)
15.0 kW and below	ø9.52	ø15.88
15.1 kW ~ 20.2 kW	ø9.52	ø19.05

The size of the pipe between the branch joint and the indoor unit (C)

Make a selection according to indoor unit capacity.

Indoor unit capacity (kW)	Liquid pipe (mm)	Gas pipe (mm)
6.0 kW and below	ø6.35	ø12.70
6.1 kW ~ 16.0 kW	ø9.52	ø15.88
16.1 kW ~ 23.0 kW	ø9.52	ø19.05

12. Installation

Refrigerant pipe installation

Selecting the first branch joint (D)

Make a selection according to the outdoor unit capacity.

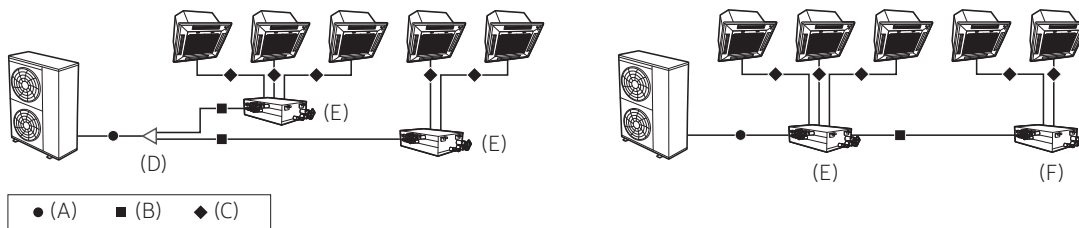
Classification	Outdoor unit capacity (HP)	Model name
Y-joint (D)	4	MXJ-YA1509M
	5	MXJ-YA1509M
	6	MXJ-YA2512M

Selecting the other branch joints (E)

Select a branch joint according to the sum of indoor unit capacity which will be connected after the branch.

Classification	Indoor unit total capacity after branch (kW)	Model name
Y-joint (E)	15.0 kW and below	MXJ-YA1509M
	15.1 kW ~ 20.2 kW	MXJ-YA2512M
Distribution header (E)	20.2 kW and below	MXJ-HA2512M

Selecting refrigerant pipe and branch joint for Heat Recovery



- ▶ Install the refrigerant pipe according to the main pipe size of each outdoor unit capacity.
- ▶ When the pipe length between an outdoor unit and the farthest indoor unit including elbow exceeds 90m, the gas pipe size should be upgraded one step among the main pipes from the outdoor unit to the first branch joint. (The liquid pipe size will be maintained.)
- ▶ If the capacity of the outdoor unit can decline due to the pipe length, upgrade the pipe size one step (gas pipe).
- ※ For 4/5 HP, don't need to increase the size of the liquid pipe if the pipe length exceeds 90m.

The size of the pipe between an outdoor unit and the first branch joints (A)

Select the size of the main pipe according to the table below.

Outdoor unit capacity (HP)	Maximum pipe length within 90 m			Maximum pipe length over 90 m		
	Liquid pipe (mm)	Low Pressure gas pipe (mm)	High Pressure gas pipe (mm)	Liquid pipe (mm)	Low Pressure gas pipe (mm)	High Pressure gas pipe (mm)
4	ø9.52	ø19.05	ø15.88	ø9.52	ø19.05	ø15.88
5	ø9.52	ø19.05	ø15.88	ø9.52	ø19.05	ø15.88
6	ø9.52	ø19.05	ø15.88	ø9.52	ø22.22	ø19.05

* Maximum pipe length : The pipe length between an outdoor unit and the farthest indoor unit.

The size of the pipe between the branch joints and HR Changer, between HR Changer and MCU (B)

Select the pipe size according to the sum of indoor unit capacity which will be connected after the branch.

Indoor unit total capacity (kW)	Liquid pipe (mm)	Low Pressure gas pipe (mm)	High Pressure gas pipe (mm)
20.2 kW and below	ø9.52	ø19.05	ø15.88

12. Installation

Refrigerant pipe installation

The size of the pipe between HR Changer(E)/MCU(F) and the indoor unit (C)

Make a selection according to indoor unit capacity.

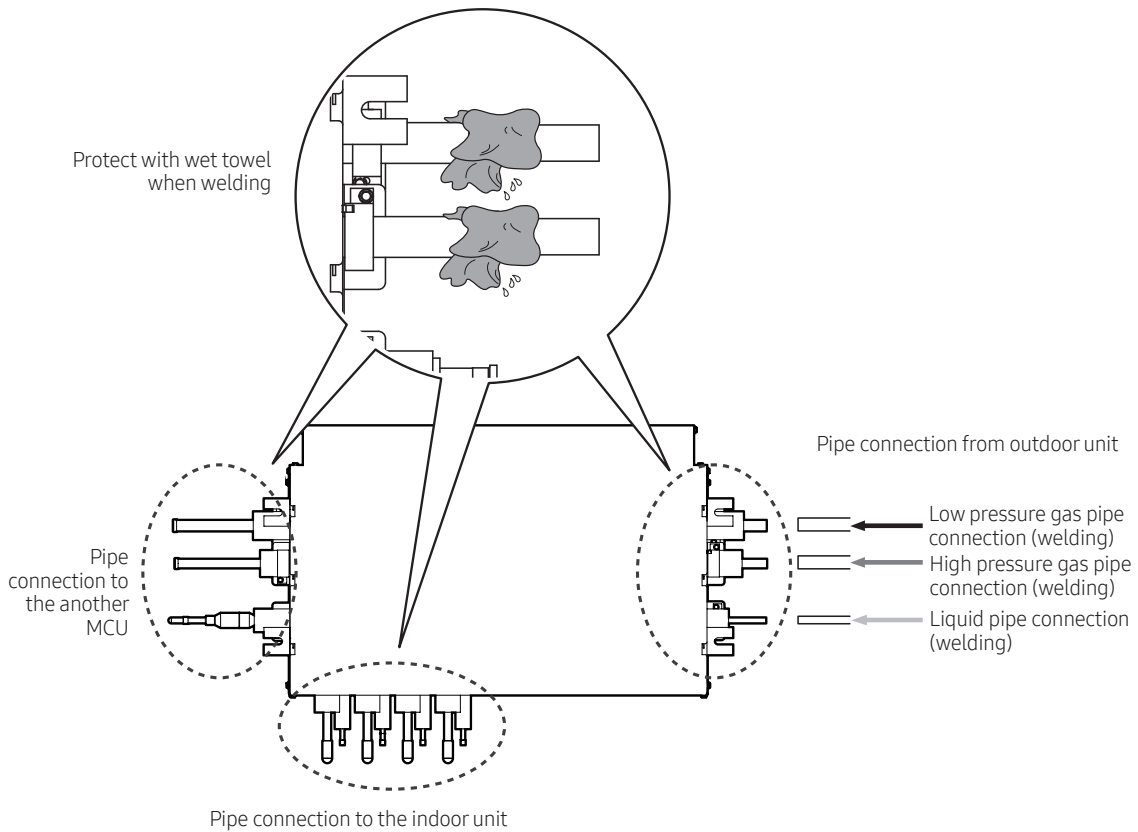
Indoor unit capacity (kW)	Liquid pipe (mm)	Gas pipe (mm)
6.0 kW and below	ø6.35	ø12.70
6.1 kW ~ 16.0 kW	ø9.52	ø15.88
16.1 kW ~ 23.0 kW	ø9.52	ø19.05

Selecting the first branch joint (D)

The first Y-joint(D) for liquid and low pressure gas pipes is MXJ-YA2512M regardless of the outdoor unit capacity.

The first Y-joint(D) for high pressure gas pipes is MXJ-YA1500M regardless of the outdoor unit capacity.

How to connect the pipes



※ When installing the HR Changer and the MCU, use the pattern sheet for installation that is provided with the product.

※ When welding the gas pipes, protect the product with the flame-proof sheet.



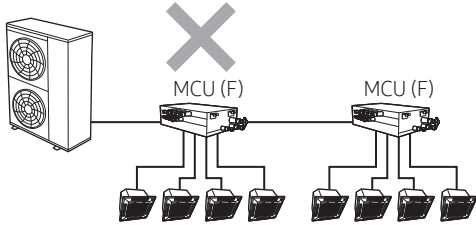
- When connecting the HR Changer with outdoor units, be attention to the direction. Please connect the pipes to the HR Changer referring to the label with the direction of connection on the HR Changer.
- When connecting the MCU with outdoor units, the default direction is set in the MCU. If installing opposite direction, weld the enclosed copper cap in each high pressure, low pressure and liquid pipes.

12. Installation

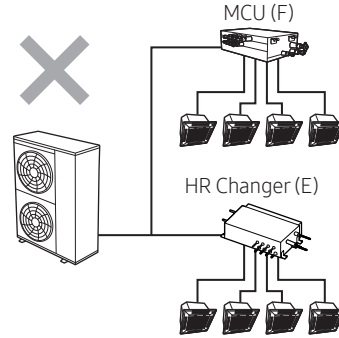
Refrigerant pipe installation

Examples of the incorrect refrigerant pipe installation for Heat Recovery

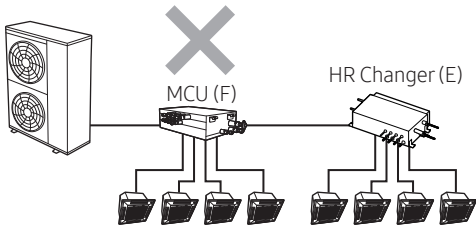
Missing HR Changer for serial installation



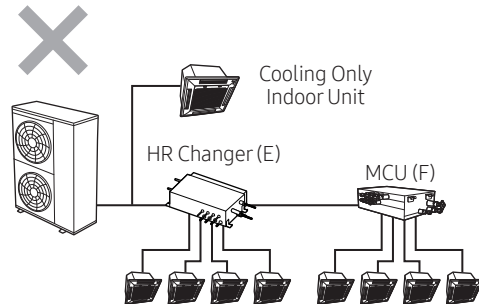
Missing HR Changer for parallel installation



Incorrect order



Branch location error



- HR Changer(E) can be installed in series or in parallel.
- For serial installation, the order of HR Changer(E) and MCU(F) is very important. HR Changer(E) must be installed after the outdoor unit. If MCU(F) is installed first after the outdoor unit, it will not work properly.
- For parallel installation, HR Changer(E) must be installed after the Y-joint. If you don't install HR Changer(E) after the Y-joint, it will not work properly.
- If you install only MCU(F) without HR Changer (E), it happen to occur the error(E214). Cooling only indoor units must be installed behind the HR Changer.

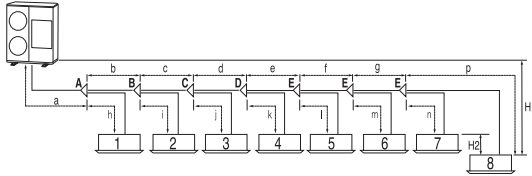
12. Installation

Refrigerant pipe installation

Allowable length of the refrigerant pipe and the installation examples for Heat Pump

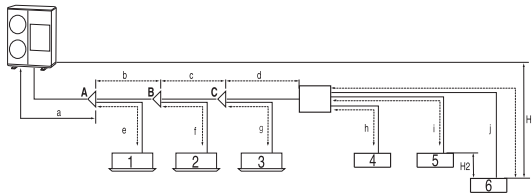
Connection by Y-joint

Outdoor unit



Connection by Y-joint/EEV kit

Outdoor unit



Classification		Y-joint connection	Y-joint / EEV kit connection
Maximum allowable length of pipe	Outdoor unit ~ Indoor units	Actual Length	The distance between the outdoor unit and the farthest indoor unit $\leq 150\text{m}$ Ex) 8 indoor units $a+b+c+d+e+f+g+p \leq 150\text{m}$
		Equivalent length	The distance between an outdoor unit and the farthest indoor unit $\leq 175\text{m}$
		Main pipe length	The main pipe (a) from the outdoor unit to the first Y-joint should be less than 110m.
		Total length	The sum of the total length of pipes should be less than 300m.
Maximum allowable height	Outdoor unit ~ Indoor units	Height	H1: The difference of height between an outdoor unit and indoor unit $< 50/40\text{m}$ ^{Note1)}
		Height	H2: The difference of height between indoor units $\leq 50\text{m}$ But, when wall mounted type indoor units (AM****NQD**, AM****NV***) are installed, H2 is 15m or less
Maximum allowable length after Y-joint		Actual Length	The distance between the first Y-joint and the farthest indoor unit $\leq 40\text{m}$ Ex) 8 indoor units $b+c+d+e+f+g+p \leq 40\text{m}$

EEV Kit		Model name	Remarks	
EEV Kit ~ Indoor units	Actual pipe length	2m or less	1 indoor	
		20m or less		MEV-E24SA
			MEV-E32SA	
			MXD-E24K132A	2 indoor
			MXD-E24K200A	
			MXD-E32K200A	3 indoor
		MXD-E24K232A		
MXD-E24K300A				
MXD-E32K224A				
MXD-E32K300A				

※ When the equivalent length between an outdoor unit and the farthest indoor unit exceeds 90m, upgrade the low pressure pipe of the main pipe one step.

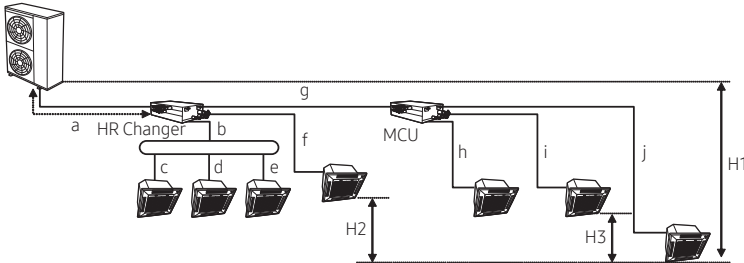
Note 1) When indoor unit is located at higher level than outdoor unit, allowable height difference is 40m, but when the indoor unit is located at lower level than outdoor unit, allowable height difference is 50m.

12. Installation

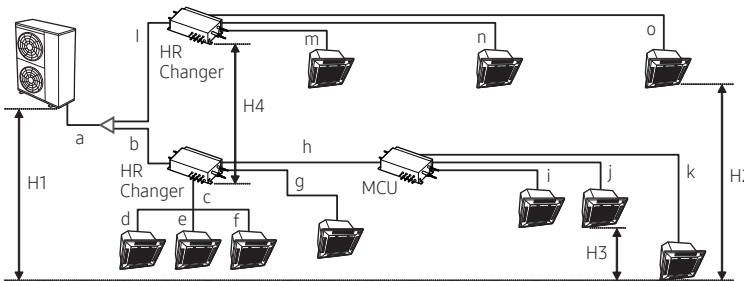
Refrigerant pipe installation

Allowable length of the refrigerant pipe and the installation examples for Heat Recovery

Installing with MCU only



Installing with MCU and Y-joint



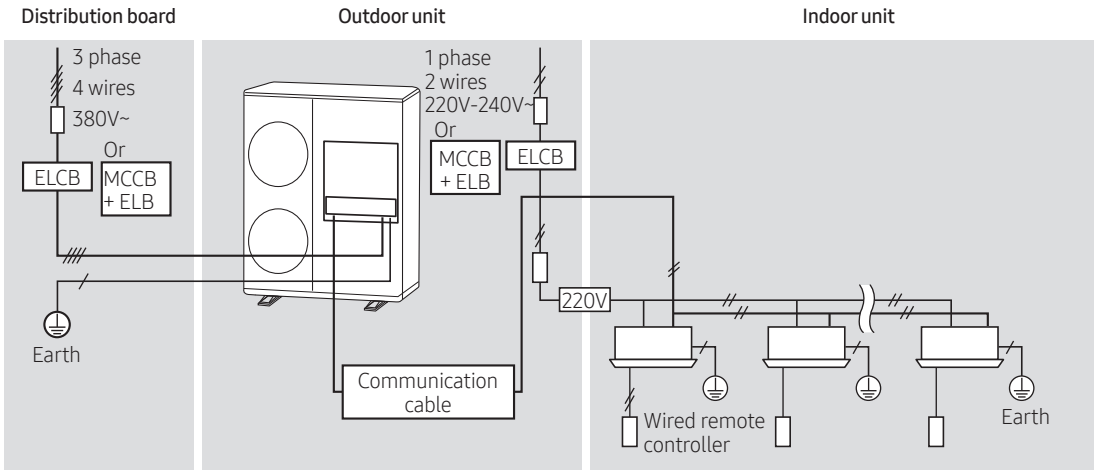
Classification		Installing with MCU only	Installing with MCU and Y-joint
Maximum allowable length of pipe	Outdoor unit ~ Indoor units	Actual Length	The distance between the outdoor unit and the farthest indoor unit ≤ 150 m Ex) $a+g+j \leq 150$ m
		Equivalent Length	The distance between an outdoor unit and the farthest indoor unit ≤ 175 m
	Total Length	The sum of the total length of pipes should be less than 300 m. Ex) $a+b+c+d+e+f+g+h+i+j \leq 300$ m	Ex) $a+b+h+k \leq 150$ m Ex) $a+b+c+\dots+o \leq 300$ m
	HR Changer ~ Indoor units	Pipe Length	The distance between HR Changer and the farthest indoor unit ≤ 40 m Ex) $b+c, b+d, b+e, f, g+h, g+i, g+j \leq 40$ m
Maximum allowable height difference	Outdoor unit ~ Indoor units	Pipe Length	H1 : The difference of height between an outdoor unit and indoor unit $< 50/40$ m ^{Note1)}
	Indoor unit ~ Indoor units		H2 : The difference of height between indoor units ≤ 25 m But when wall mounted type indoor units (AM****NQD**, AM****NV***) are installed, H2 is 15 m or less.
	Indoor unit ~ Indoor units (in one HR Changer or MCU)		H3 : The difference of height between indoor units in one HR Changer or MCU ≤ 15 m
	HR Changer ~ HR Changer		H4 : The difference of height between HR Changers ≤ 20 m
Maximum allowable length after branch joint	First branch joint ~ Farthest Indoor unit	Pipe Length	The distance between the first branch joint and the farthest indoor unit ≤ 40 m Ex) $g+j \leq 40$ m
			Ex) $b+h+k, l+o \leq 40$ m

Note 1) When indoor unit is located at higher level than outdoor unit, allowable height difference is 40m, but when the indoor unit is located at lower level than outdoor unit, allowable height difference is 50m.

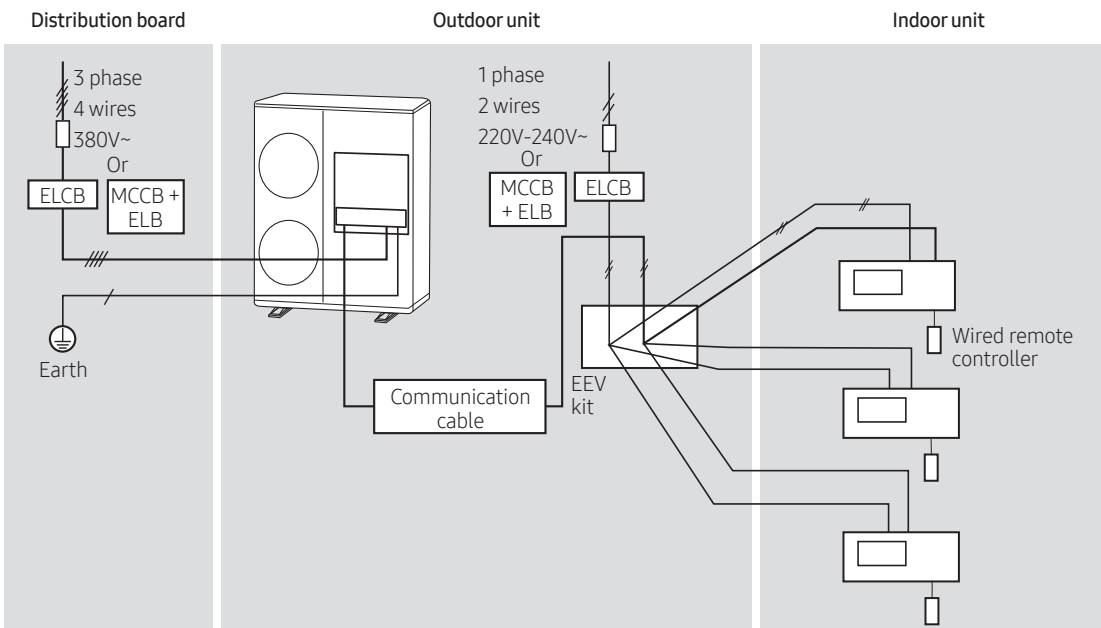
12. Installation

Wiring work

Connection of the power cable (3 phase 4 wires)



Connection of the power cable (3 phase 4 wires using EEV kit)



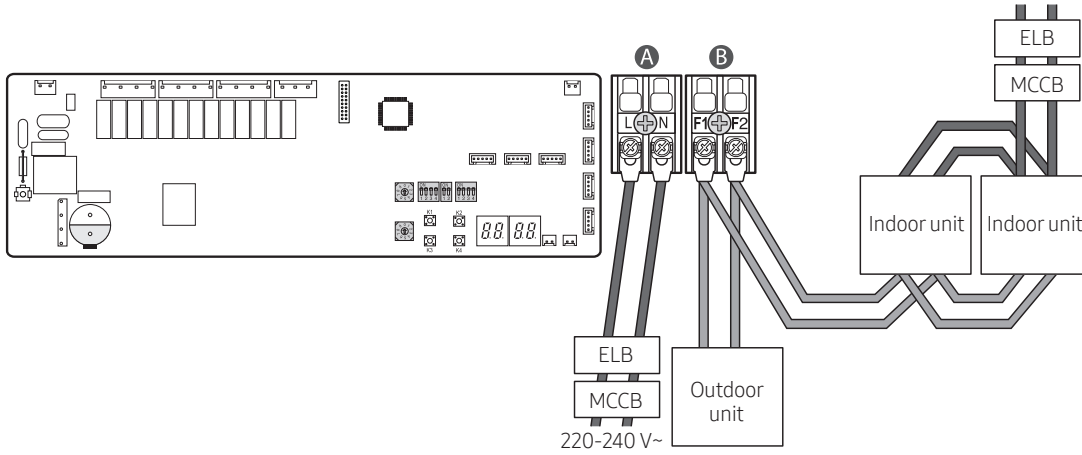
- You must install an earth leakage breaker.
 - ELCB(Earth Leakage Circuit Breaker)
 - MCCB(Molded Case Circuit Breaker)
 - ELB(Earth Leakage fuse breaker)
- Manufacturers are not responsible for fire caused by not installing ELCB or MCCB.
- Install the cabinet panel near the outdoor unit for service convenience and emergency operation switch off.
- You must install a circuit breaker that can prevent excess current and shut off the electric leakage on the outdoor unit.

12. Installation

Wiring work

Connecting the HR Changer/MCU (MCU-R4NEK0N, MCU-S6NEK3N)

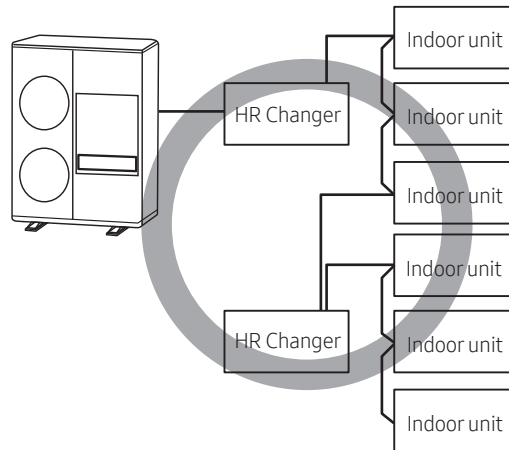
Example



- ▶ **A** Power must be supplied to the HR Changer/MCU separately from the outdoor unit.
- ▶ **B** Connect the communication cable of the outdoor unit (F1, F2) to the communication cable of the HR Changer/MCU (F1, F2)



- Power cable connection should be done with the solderless ring terminal.



- When installing the HR Changer, communication cable can be connected as shown above.

2022. 04
Ver.1.0

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