

## 2. Specification

### Outdoor unit

Type				DVM S Eco		DVM S Eco	
Model Name				AM040KXMDEH/EU		AM050KXMDEH/EU	
Power Supply			Φ, #, V, Hz	1, 2, 220-240, 50		1, 2, 220-240, 50	
Mode			-	HEAT PUMP		HEAT PUMP	
Performance	HP		HP	4		5	
	Capacity	Cooling	kW	12.1		14.0	
			Btu/h	41,200		48,000	
		Heating	kW	12.1		14.0	
			Btu/h	41,200		48,000	
			ea	6		8	
Maximum number of connectable indoor units	Total capacity of the connected Indoor Units	Min.	kW	5.6		7.0	
		Max.	kW	14.5		18.2	
Power	Power Input	Cooling <sup>1)</sup>	kW	3.6		4.0	
		Heating <sup>2)</sup>		2.9		3.4	
	Current Input	Cooling <sup>1)</sup>	A	17.5		19.5	
		Heating <sup>2)</sup>		14.0		16.5	
	Current	Minimum Ssc value	MVA	-		-	
		MCA	A	24		27	
		MFA	A	32		40	
COP	Cooling <sup>1)</sup>		W/W	3.36		3.50	
	Heating <sup>2)</sup>		W/W	4.17		4.12	
	ESEER		W/W	7.25		6.71	
Casing	Material	Cabinet	-	EGI steel plate		EGI 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	4.12		4.12	
	Model Name		-	UG5T450FUEJX		UG5T450FUEJX	
	Oil	Type	-	PVE		PVE	
		Initial Charge	cc	1,700		1,700	
Fan	Type		-	Propeller		Propeller	
	Discharge direction		-	Horizontal		Horizontal	
	Quantity		ea	1		1	
	Air Flow Rate		m³/min	64		70	
			l/s	1,067		1,167	
	External Static Pressure	Max.	mmAq	3		3	
			Pa	29.4		29.4	
Fan Motor	Model		-	BLDC Motor		BLDC Motor	
	Output x n		W	125 x 1		139 x 1	

## 2. Specification

Type				DVM S Eco	DVM S Eco
Model Name				AM040KXMDEH/EU	AM050KXMDEH/EU
Piping Connections	Liquid Pipe		Type	Braze connection	Braze connection
			Φ, mm	9.52	9.52
			Φ, inch	3/8"	3/8"
	Gas Pipe		Type	Braze connection	Braze connection
			Φ, mm	15.88	15.88
			Φ, inch	5/8"	5/8"
	Discharge Gas Pipe		Φ, mm	-	-
			Φ, inch	-	-
	Heat insulation		-	Both liquid and gas pipes	Both liquid and gas pipes
	Piping length (ODU-IDU)	Max. [Equiv.]	m	50 (65)	50 (65)
	Piping length (1st Branch-IDU)	Max.	m	40	40
	Total piping length (System)	Max.	m	150	150
	Level difference (ODU in highest position)	Max.	m	30	30
	Level difference (IDU in highest position)	Max.	m	25	25
	Level difference (IDU-IDU)	Max.	m	15	15
Wiring connections <sup>3)</sup>	Communication	Minimum	mm <sup>2</sup>	0.75	0.75
		Remark	-	F1,F2	F1,F2
Refrigerant	Type		R410A		R410A
	Factory Charging		kg / tCO <sub>2</sub> e	2.0 / 4.18	2.5 / 5.22
Sound <sup>4)</sup>	Sound Pressure	Cooling	dB(A)	52	55
		Heating		54	57
	Sound Power			73	75
External Dimension	Net Weight		kg	79.0	83.5
	Shipping Weight		kg	84.5	89.0
	Net Dimensions (WxHxD)		mm	940 x 998 x 330	940 x 998 x 330
	Shipping Dimensions (WxHxD)		mm	1009 x 1124 x 419	1009 x 1124 x 419
Operating Temp. Range	Cooling		°C	-5.0 ~ 48.0	-5.0 ~ 48.0
	Heating		°C	-20.0 ~ 24.0	-20.0 ~ 24.0

### 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 : 7.5m, 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 : 7.5m, 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.

## 2. Specification

Type				DVM S Eco	DVM S Eco	DVM S Eco	DVM S Eco
Model Name				AM040FXMDEH/EU	AM040FXMDGH/EU	AM050FXMDEH/EU	AM050FXMDGH/EU
Power Supply			Φ, #, V, Hz	1,2,220-240,50	3,4,380-415,50	1,2,220-240,50	3,4,380-415,50
Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP
Performance	HP		HP	4	4	5	5
	Capacity	Cooling	kW	12.1	12.1	14.0	14.0
			Btu/h	41,300	41,300	47,800	47,800
		Heating	kW	13.5	13.5	16.0	16.0
			Btu/h	46,100	46,100	54,600	54,600
			ea	6	6	8	8
Maximum number of connectable indoor units	Total capacity of the connected Indoor Units	Min.	kW	5.6	5.6	7.0	7.0
		Max.	kW	15.7	15.7	18.2	18.2
Power	Power Input	Cooling <sup>1)</sup>	kW	2.89	2.99	3.69	3.69
		Heating <sup>2)</sup>		3.02	3.02	3.61	3.61
	Current Input	Cooling <sup>1)</sup>	A	14.0	4.8	17.9	6.2
		Heating <sup>2)</sup>		15.1	5.0	17.2	6.0
	Current	Minimum Ssc value	MVA	-	3.3	-	3.3
		MCA	A	22.0	10.0	24.0	12.0
		MFA	A	32	20	32	20
COP	Cooling <sup>1)</sup>		W/W	4.19	4.05	3.79	3.79
	Heating <sup>2)</sup>		W/W	4.47	4.47	4.43	4.43
	ESEER		W/W	7.57	7.57	6.91	6.91
Casing	Material	Cabinet	-	EGI steel plate	EGI steel plate	EGI steel plate	EGI steel plate
		Base	-	GI steel plate	GI steel plate	GI steel plate	GI steel plate
Heat exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al	Al
		Tube	-	Cu	Cu	Cu	Cu
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion	Anti-corrosion
Compressor	Type		-	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary
	Output		kW × n	(4.12) x 1	(4.12) x 1	(4.12) x 1	(4.12) x 1
	Model Name		-	UG5T450FUEJXSG x1	UG5T450FUFJXSG x1	UG5T450FUEJXSG x1	UG5T450FUFJXSG x1
	Oil	Type	-	PVE	PVE	PVE	PVE
Initial Charge		cc	1700	1700	1700	1700	
Fan	Type		-	Propeller	Propeller	Propeller	Propeller
	Discharge direction		-	Horizontal	Horizontal	Horizontal	Horizontal
	Quantity		ea	2	2	2	2
	Air Flow Rate		m³/min	100	100	100	100
			l/s	1,666.67	1,666.67	1,666.67	1,666.67
	External Static Pressure	Max.	mmAq	3	3	3	3
Pa			29.4	29.4	29.4	29.4	
Fan Motor	Model		-	BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor
	Output x n		W	125 x 2	125 x 2	125 x 2	125 x 2

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Type				DVM S Eco	DVM S Eco	DVM S Eco	DVM S Eco
Model Name				AM040FXMDEH/EU	AM040FXMDGH/EU	AM050FXMDEH/EU	AM050FXMDGH/EU
Piping Connections	Liquid Pipe	Type		Braze connection	Braze connection	Braze connection	Braze connection
		Φ, mm		9.52	9.52	9.52	9.52
		Φ, inch		3/8"	3/8"	3/8"	3/8"
	Gas Pipe	Type		Braze connection	Braze connection	Braze connection	Braze connection
		Φ, mm		15.88	15.88	15.88	15.88
		Φ, inch		5/8"	5/8"	5/8"	5/8"
	Discharge Gas Pipe	Φ, mm		-	-	-	-
		Φ, inch		-	-	-	-
	Heat insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
	Piping length (ODU-IDU)	Max. [Equiv.]	m	150 (175)	150 (175)	150 (175)	150 (175)
	Piping length (1st Branch-IDU)	Max.	m	40	40	40	40
	Total piping length (System)	Max.	m	300	300	300	300
	Level difference (ODU in highest position)	Max.	m	50	50	50	50
	Level difference (IDU in highest position)	Max.	m	40	40	40	40
	Level difference (IDU-IDU)	Max.	m	15	15	15	15
Wiring connections <sup>3)</sup>	Communication	Minimum	mm <sup>2</sup>	0.75	0.75	0.75	0.75
		Remark	-	F1,F2	F1,F2	F1,F2	F1,F2
Refrigerant	Type			R410A	R410A	R410A	R410A
	Factory Charging		kg / tCO <sub>2</sub> e	3.2 / 6.68	3.2 / 6.68	3.2 / 6.68	3.2 / 6.68
Sound <sup>4)</sup>	Sound Pressure	Cooling	dB(A)	50	50	51	51
		Heating		52	52	53	53
	Sound Power			66	66	67	67
External Dimension	Net Weight		kg	100	100	100	100
	Shipping Weight		kg	105	105	105	105
	Net Dimensions (WxHxD)		mm	940 x 1,210 x 330	940 x 1,210 x 330	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	995 x 1,388 x 426	995 x 1,388 x 426
Operating Temp. Range	Cooling		°C	-5.0 ~ 48.0	-5.0 ~ 48.0	-5.0 ~ 48.0	-5.0 ~ 48.0
	Heating		°C	-20.0 ~ 26.0	-20.0 ~ 26.0	-20.0 ~ 26.0	-20.0 ~ 26.0

### 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 : 7.5m, 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 : 7.5m, 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.  
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  - These products contain R410A(GWP=2,088) which is fluorinated greenhouse gas.

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Type				DVM S Eco	DVM S Eco	DVM S Eco	DVM S Eco
Model Name				AM060FXMDEH/EU	AM060FXMDGH/EU	AM080FXMDGH/EU	AM080MXMDGH/EU
Power Supply			Φ, #, V, Hz	1,2,220-240,50	3,4,380-415,50	3,4,380-415,50	3,4,380-415,50
Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP
Performance	HP		HP	6	6	8	8
	Capacity	Cooling	kW	15.5	15.5	22.4	22.4
			Btu/h	52,900	52,900	76,400	76,400
		Heating	kW	18.0	18.0	25.0	22.4
			Btu/h	61,400	61,400	85,300	76,400
			ea	9	9	13	13
Maximum number of connectable indoor units	Total capacity of the connected Indoor Units	Min.	kW	7.8	7.8	11.2	11.2
		Max.	kW	20.2	20.2	29.1	29.1
Power	Power Input	Cooling <sup>1)</sup>	kW	4.31	4.31	5.72	6.90
		Heating <sup>2)</sup>		4.39	4.39	4.88	5.80
	Current Input	Cooling <sup>1)</sup>	A	21	7.3	9.66	11.7
		Heating <sup>2)</sup>		20.2	6.9	8.24	9.5
	Current	Minimum Ssc value	MVA	-	3.3	3.4	3.4
		MCA	A	32.0	12.0	18.0	18.4
		MFA	A	40.0	20	25.0	25.0
COP	Cooling <sup>1)</sup>		W/W	3.6	3.6	3.92	3.25
	Heating <sup>2)</sup>		W/W	4.1	4.1	5.12	3.86
	ESEER		W/W	6.45	6.45	9.22	7.46
Casing	Material	Cabinet	-	EGI steel plate	EGI steel plate	EGI steel plate	EGI steel plate
		Base	-	GI steel plate	GI steel plate	GI steel plate	GI steel plate
Heat exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al	Al
		Tube	-	Cu	Cu	Cu	Cu
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion	Anti-corrosion
Compressor	Type		-	Twin BLDC Rotary	Twin BLDC Rotary	Inverter Scroll	Twin BLDC Rotary
	Output		kW × n	(4.12) x 1	(4.12) x 1	(4.96) x 1	4.92 x 1
	Model Name		-	UG5T450FUEJXSG x1	UG5T450FUFJXSG x1	DS-GB052FAVADO x1	UG5T520FUBJX
	Oil	Type	-	PVE	PVE	PVE	PVE
Initial Charge		cc	1700	1700	2800	1,700	
Fan	Type		-	Propeller	Propeller	Propeller	Propeller
	Discharge direction		-	Horizontal	Horizontal	Horizontal	Horizontal
	Quantity		ea	2	2	2	2
	Air Flow Rate		m³/min	100	100	135	135
			l/s	1,666.67	1,666.67	2,250.00	2,250
	External Static Pressure	Max.	mmAq	3	3	3	3
Pa			29.4	29.4	29.4	29.4	
Fan Motor	Model		-	BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor
	Output x n		W	125 x 2	125 x 2	139 x 2	139 x 2

## 2. Specification

Type				DVM S Eco	DVM S Eco	DVM S Eco	DVM S Eco
Model Name				AM060FXMDEH/EU	AM060FXMDGH/EU	AM080FXMDGH/EU	AM080MXMDGH/EU
Piping Connections	Liquid Pipe	Type		Braze connection	Braze connection	Braze connection	Braze connection
		Φ, mm		9.52	9.52	9.52	9.52
		Φ, inch		3/8"	3/8"	3/8"	3/8"
	Gas Pipe	Type		Braze connection	Braze connection	Braze connection	Braze connections
		Φ, mm		19.05	19.05	19.05	19.05
		Φ, inch		3/4"	3/4"	3/4"	3/4"
	Discharge Gas Pipe	Φ, mm		-	-	-	-
		Φ, inch		-	-	-	-
	Heat insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
	Piping length (ODU-IDU)	Max. [Equiv.]	m	150 (175)	150 (175)	100 (130)	100 (130)
	Piping length (1st Branch-IDU)	Max.	m	40	40	40	40
	Total piping length (System)	Max.	m	300	300	300	300
	Level difference (ODU in highest position)	Max.	m	50	50	30	30
	Level difference (IDU in highest position)	Max.	m	40	40	30	30
	Level difference (IDU-IDU)	Max.	m	15	15	30	30
Wiring connections <sup>3)</sup>	Communication	Minimum	mm <sup>2</sup>	0.75	0.75	0.75	0.75
		Remark	-	F1,F2	F1,F2	F1,F2	F1,F2
Refrigerant	Type			R410A	R410A	R410A	R410A
	Factory Charging		kg / tCO <sub>2</sub> e	3.3 / 6.89	3.3 / 6.89	3.3 / 6.89	3.7 / 7.73
Sound <sup>4)</sup>	Sound Pressure	Cooling	dB(A)	53	53	56	59
		Heating		55	55	58	59
	Sound Power			69	69	74	77
External Dimension	Net Weight		kg	103	103	135	115
	Shipping Weight		kg	108	108	145	125
	Net Dimensions (WxHxD)		mm	940 x 1,210 x 330	940 x 1,210 x 330	940 x 1,420 x 330	940 x 1,420 x 330
	Shipping Dimensions (WxHxD)		mm	995 x 1,388 x 426	995 x 1,388 x 426	995 x 1,578 x 426	995 x 1,578 x 426
Operating Temp. Range	Cooling		°C	-5.0 ~ 48.0	-5.0 ~ 48.0	-5.0 ~ 48.0	-5.0 ~ 48.0
	Heating		°C	-20.0 ~ 26.0	-20.0 ~ 26.0	-20.0 ~ 24.0	-20.0 ~ 24.0

### NOTE

- Specifications may be subject to change without prior notice.
- 1) Cooling capacities are based on;
  - Indoor temperature : 27°C DB, 19°C WB
  - Outdoor temperature : 35°C DB, 24°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m
- 2) Heating capacities are based on;
  - Indoor temperature : 20°C DB, 15°C WB
  - Outdoor temperature : 7°C DB, 6°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m
- 3) Select wire size based on the value of MCA
- 4) 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.
- 5) These products contain R410A(GWP=2,088) which is fluorinated greenhouse gas.

## 2. Specification

Type				DVM S Eco	DVM S Eco	DVM S Eco
Model Name				AM100KXMDGH/EU	AM120KXMDGH/EU	AM140KXMDGH/EU
Power Supply			Φ, #, V, Hz	3,4,380-415,50	3,4,380-415,50	3,4,380-415,50
Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP
Performance	HP		HP	10	12	14
	Capacity	Cooling	kW	28.0	33.5	40.0
			Btu/h	95,500	114,300	136,500
		Heating	kW	31.5	37.5	45.0
			Btu/h	107,500	128,000	153,500
Maximum number of connectable indoor units			ea	18	21	26
	Total capacity of the connected Indoor Units	Min.	kW	14.0	16.8	20.0
		Max.	kW	36.4	43.6	52.0
Power	Power Input	Cooling <sup>1)</sup>	kW	7.29	8.77	10.59
		Heating <sup>2)</sup>		6.74	7.81	9.88
	Current Input	Cooling <sup>1)</sup>	A	11.51	13.74	16.48
		Heating <sup>2)</sup>		10.58	12.23	15.55
	Current	Minimum Ssc value	MVA	4.6	5.1	5.9
		MCA	A	21.5	23.5	32.0
		MFA	A	30.0	30.0	40.0
COP	Cooling <sup>1)</sup>		W/W	3.84	3.82	3.78
	Heating <sup>2)</sup>		W/W	4.67	4.79	4.55
	ESEER		W/W	7.09	6.94	6.83
Casing	Material	Cabinet	-	EGI steel plate	EGI steel plate	EGI steel plate
		Base	-	GI steel plate	GI steel plate	GI steel plate
Heat exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion
Compressor	Type		-	Inverter Scroll	Inverter Scroll	Inverter Scroll
	Output		kW × n	(5.18) x 1	(6.39) x 1	(6.76) x 1
	Model Name		-	DS-GB052FAVB x 1	DS-GB066FAVB x 1	DS-GB070FAVA x 1
	Oil	Type	-	PVE	PVE	PVE
		Initial Charge	cc	2300	2300	2300
Fan	Type		-	Propeller	Propeller	Propeller
	Discharge direction		-	Horizontal	Horizontal	Horizontal
	Quantity		ea	2	2	2
	Air Flow Rate		m³/min	165	166	180
			l/s	2750.00	2,766.67	3,000.00
	External Static Pressure	Max.	mmAq	3	3	3
			Pa	29.4	29.4	29.4
Fan Motor	Model		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output x n		W	244 x 2	244 x 2	244 x 2

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Type				DVM S Eco	DVM S Eco	DVM S Eco
Model Name				AM100KXMDGH/EU	AM120KXMDGH/EU	AM140KXMDGH/EU
Piping Connections	Liquid Pipe		Type	Braze connection	Braze connection	Braze connection
			Φ, mm	9.52	12.70	12.70
			Φ, inch	3/8"	1/2"	1/2"
	Gas Pipe		Type	Braze connection	Braze connection	Braze connection
			Φ, mm	22.22	28.58	28.58
			Φ, inch	7/8"	1 1/8"	1 1/8"
	Discharge Gas Pipe		Φ, mm	-	-	-
			Φ, inch	-	-	-
	Heat insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
	Piping length (ODU-IDU)	Max. [Equiv.]	m	160 (185)	160 (185)	160 (185)
	Piping length (1st Branch-IDU)	Max.	m	40	40	40
	Total piping length (System)	Max.	m	300	300	300
	Level difference (ODU in highest position)	Max.	m	50	50	50
	Level difference (IDU in highest position)	Max.	m	40	40	40
	Level difference (IDU-IDU)	Max.	m	50	50	50
Wiring connections <sup>3)</sup>	Communication	Minimum	mm <sup>2</sup>	0.75	0.75	0.75
		Remark	-	F1,F2	F1,F2	F1,F2
Refrigerant	Type			R410A	R410A	R410A
	Factory Charging		kg / tCO <sub>2</sub> e	3.7 / 7.73	4.3 / 8.98	4.8 / 10.02
Sound <sup>4)</sup>	Sound Pressure	Cooling	dB(A)	58	59	62
		Heating		60	61	64
	Sound Power				74	76
External Dimension	Net Weight		kg	145	155	162
	Shipping Weight		kg	158	168	175
	Net Dimensions (WxHxD)		mm	940 x 1,630 x 460	940 x 1,630 x 460	940 x 1,630 x 460
	Shipping Dimensions (WxHxD)		mm	1,020 x 1,820 x 575	1,020 x 1,820 x 575	1,020 x 1,820 x 575
Operating Temp. Range	Cooling		°C	-5.0 ~ 52.0	-5.0 ~ 52.0	-5.0 ~ 52.0
	Heating		°C	-25.0 ~ 24.0	-25.0 ~ 24.0	-25.0 ~ 24.0

### 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 : 7.5m, 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 : 7.5m, 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.



### 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	AM040KXMDEH/EU	1	2	50	220~240	198	264	17.50	14.00	24.0	32.0	0.125
5	14.0	AM050KXMDEH/EU	1	2	50	220~240	198	264	19.50	16.50	27.0	40.0	0.139
4	12.1	AM040FXMDEH/EU	1	2	50	220~240	198	264	14.00	15.10	22.0	32.0	0.250
4	12.1	AM040FXMDGH/EU	3	4	50	380~415	342	456	4.80	5.00	10.0	20.0	0.250
5	14.0	AM050FXMDEH/EU	1	2	50	220~240	198	264	17.90	17.20	24.0	32.0	0.250
5	14.0	AM050FXMDGH/EU	3	4	50	380~415	342	456	6.20	6.00	12.0	20.0	0.250
6	15.5	AM060FXMDEH/EU	1	2	50	220~240	198	264	21.00	20.20	32.0	40.0	0.250
6	15.5	AM060FXMDGH/EU	3	4	50	380~415	342	456	7.30	6.90	12.0	20.0	0.250
8	22.4	AM080FXMDGH/EU	3	4	50	380~415	342	456	9.66	8.24	18.0	25.0	0.278
8	22.4	AM080MXMDGH/EU	3	4	50	380~415	342	456	11.70	9.50	18.4	25.0	0.278
10	28.0	AM100KXMDGH/EU	3	4	50	380~415	342	456	11.51	10.58	21.5	30.0	0.488
12	33.4	AM120KXMDGH/EU	3	4	50	380~415	342	456	13.74	12.23	23.5	30.0	0.488
14	40.0	AM140KXMDGH/EU	3	4	50	380~415	342	456	16.48	15.55	32.0	40.0	0.488

#### NOTE

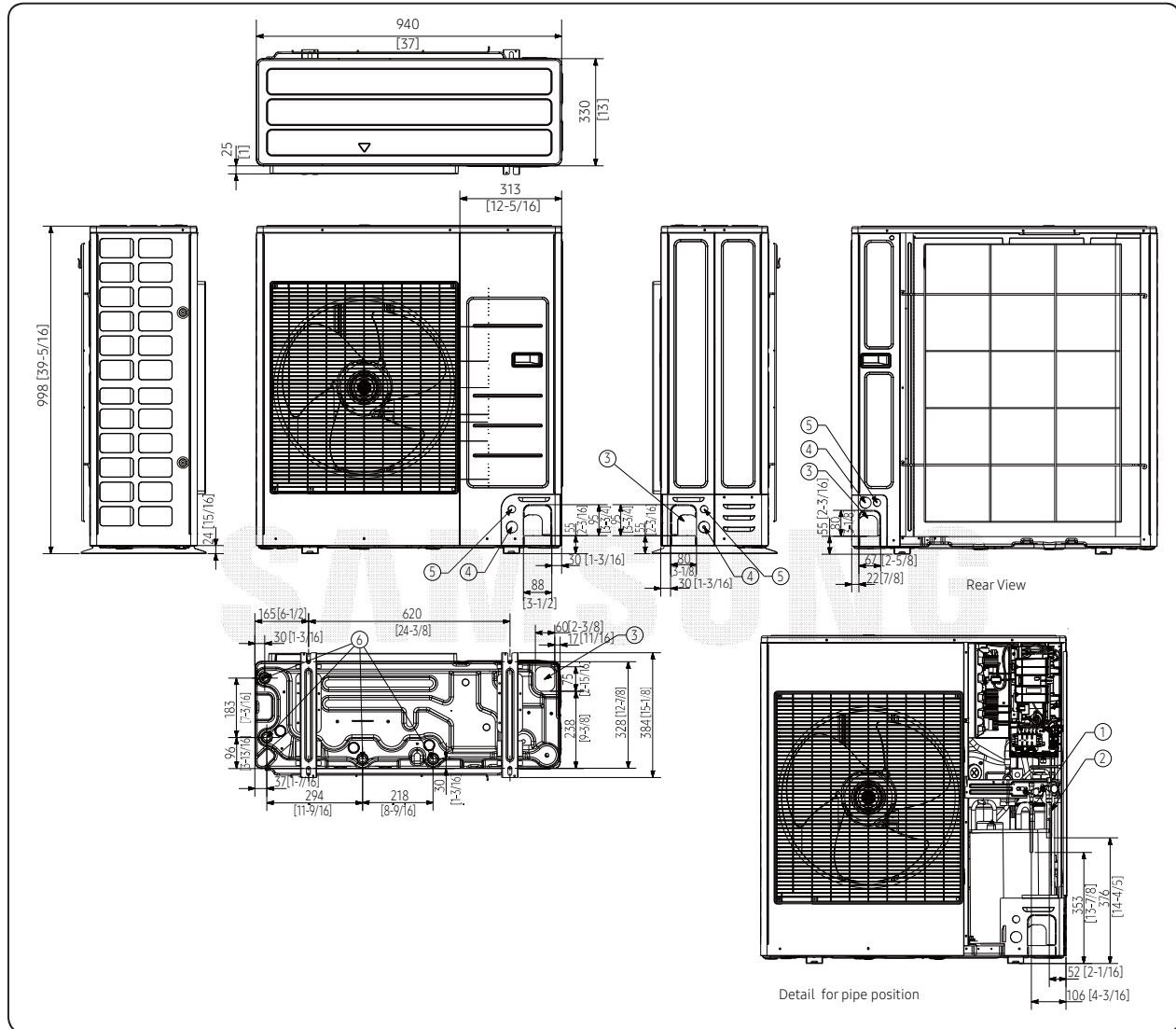
- MCA : Minimum circuit amperes
- MFA : Maximum fuse amperes
- Select wire size based on the value of MCA

SAMSUNG

## 4. Dimensional Drawing

AM040KXMDEH/EU, AM050KXMDEH/EU

Units : mm [inches]

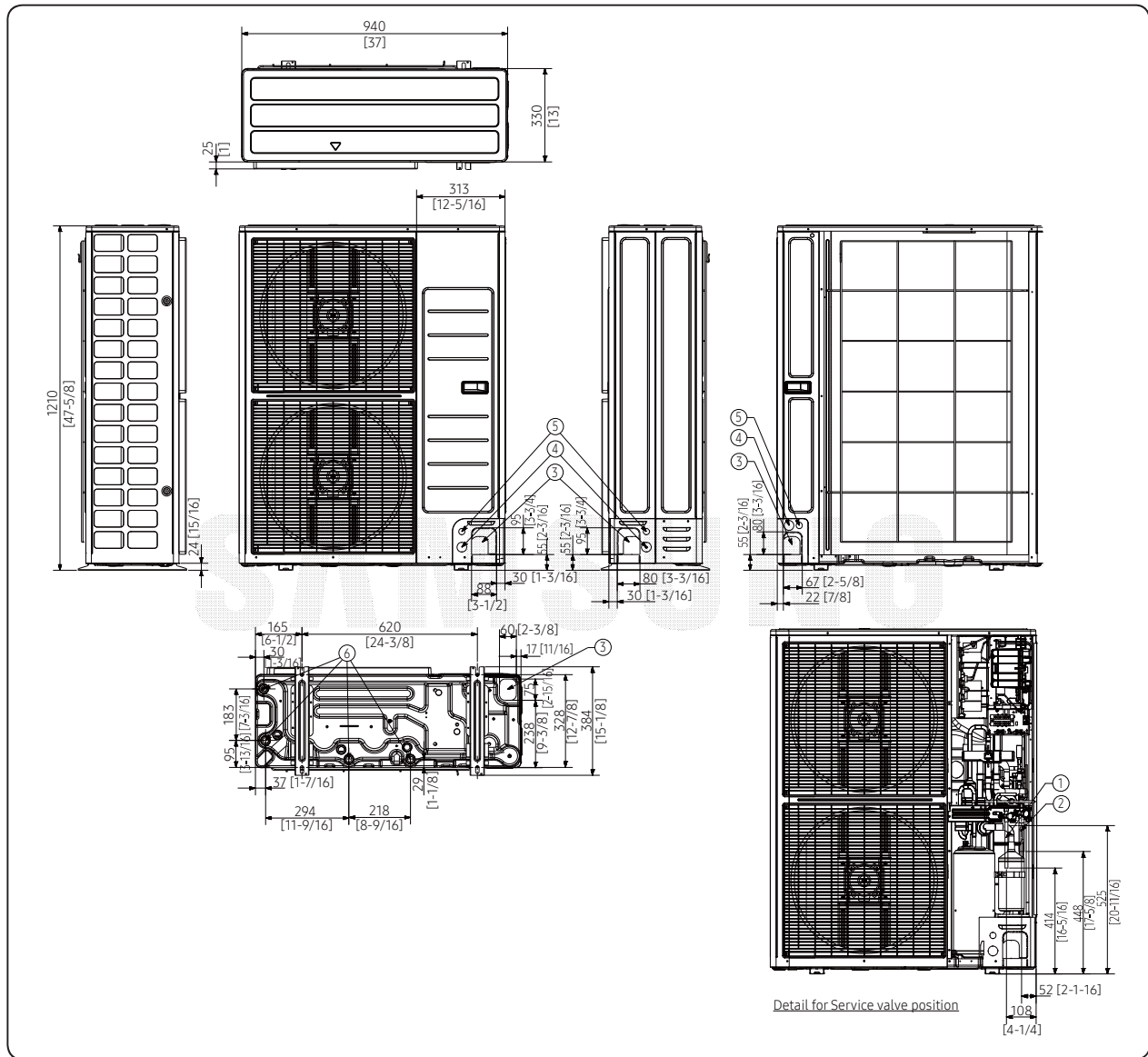


NO	Name	Description
		4 / 5 HP
1	Refrigerant liquid pipe	Φ9.52 (Φ3/8)
2	Refrigerant gas pipe	Φ15.88 (Φ5/8)
3	Knockout hole for pipe intake	Front / Side / Rear / Bottom
4	Power wiring conduits	Front / Side / Rear, Φ34 (Φ1-3/8)
5	Communication wiring conduits	Front / Side / Rear, Φ22 (Φ7/8)
6	Drain holes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

## 4. Dimensional Drawing

AM040FXMD\*H/EU, AM050FXMD\*H/EU, AM060FXMD\*H/EU

Units : mm [inches]

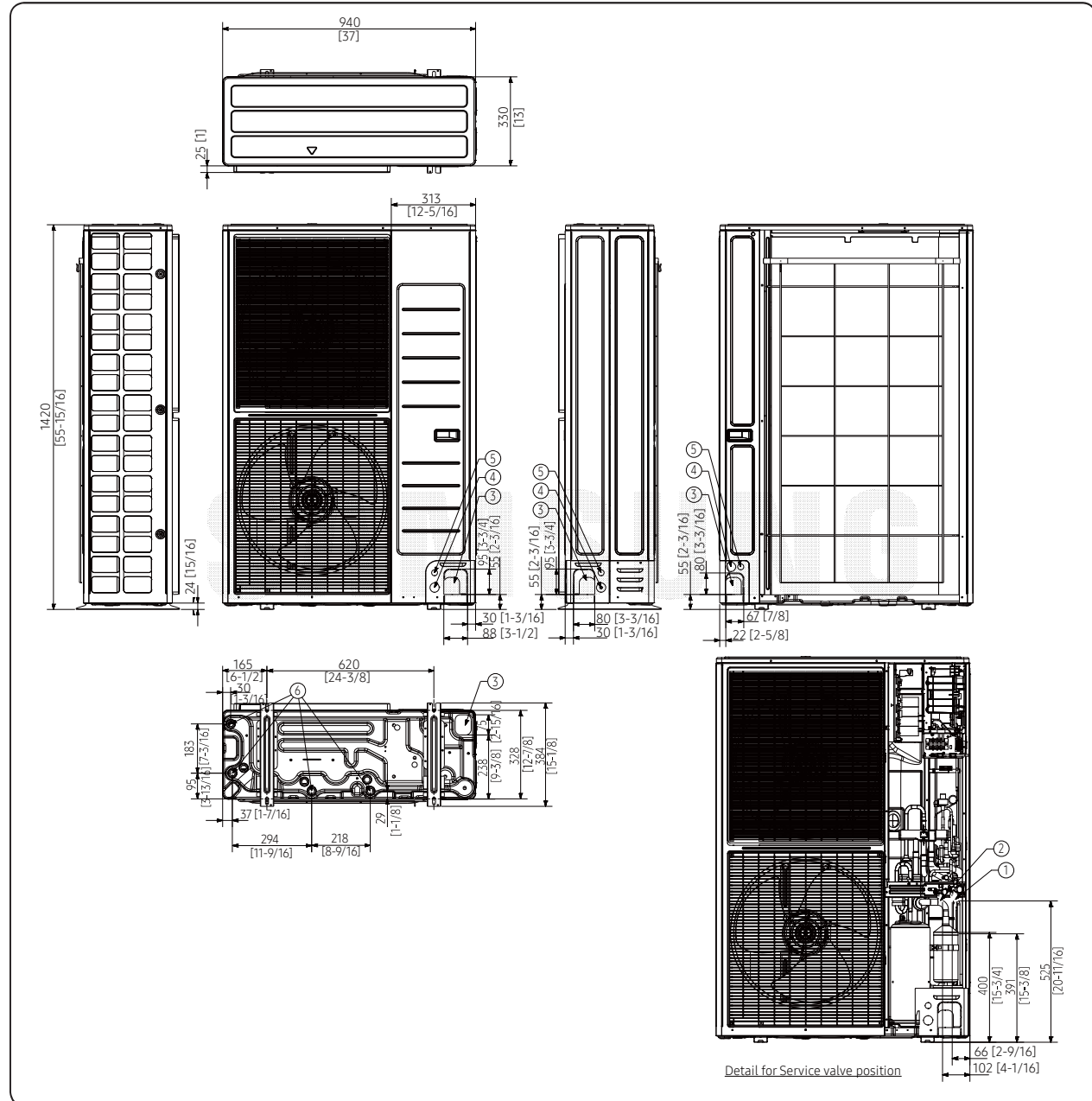


NO	Name	Description	
		4 / 5 HP	6 HP
1	Refrigerant liquid pipe	Φ9.52 (Φ3/8)	
2	Refrigerant gas pipe	Φ15.88 (Φ5/8)	Φ19.05 (Φ3/4)
3	Knockout hole for pipe intake	Front / Side / Rear / Bottom	
4	Power wiring conduits	Front / Side / Rear, Φ34 (Φ1-3/8)	
5	Communication wiring conduits	Front / Side / Rear,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

## 4. Dimensional Drawing

AM080\*XMDDGH/EU

Units : mm [inches]

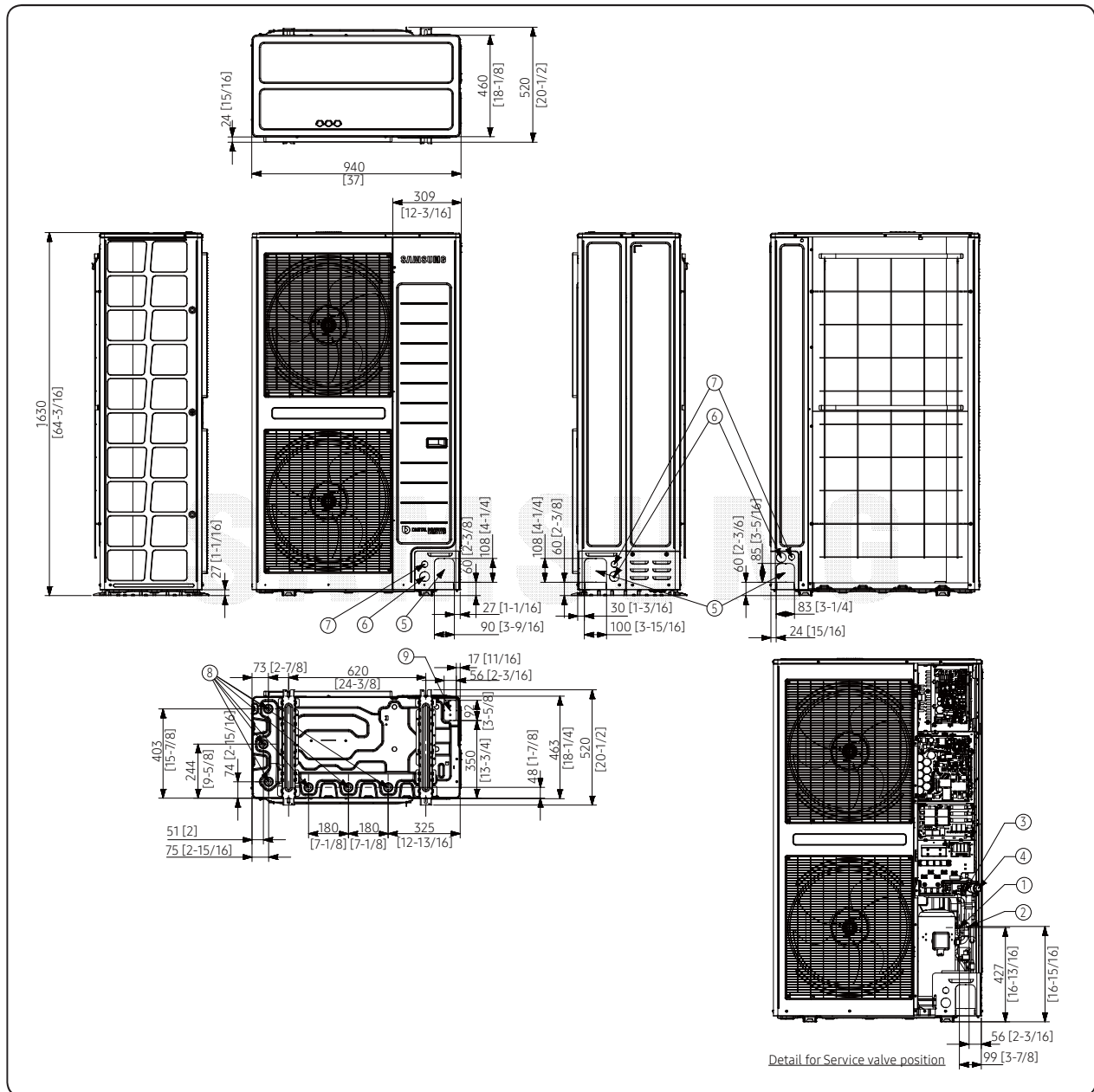


NO	Name	Description
1	Refrigerant gas pipe	Φ19.05 (Φ3/4)
2	Refrigerant liquid pipe	Φ9.52 (Φ3/8)
3	Knockout hole for pipe intake	Front / Side / Rear / Bottom
4	Power wiring conduits	Front / Side / Rear, Φ34 (Φ1-3/8)
5	Communication wiring conduits	Front / Side / Rear, Φ22 (Φ7/8)
6	Drain holes	Connect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

## 4. Dimensional Drawing

AM100KXMDGH/EU, AM120KXMDGH/EU, AM140KXMDGH/EU

Units : mm [inches]

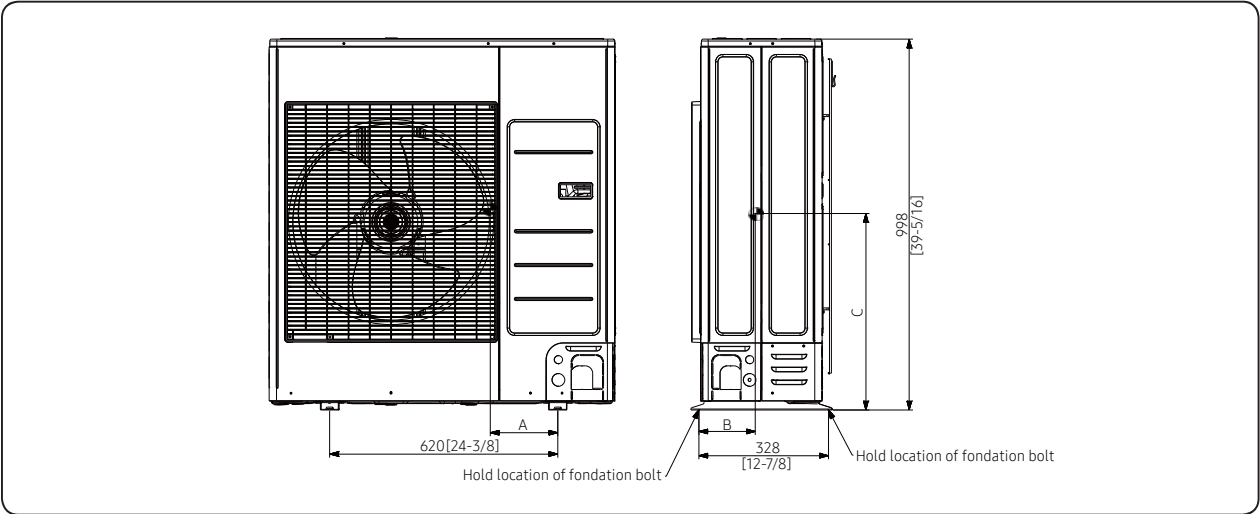


NO	Name	Description	
		10 HP	12 / 14 HP
1	Refrigerant liquid pipe	Φ9.52 (Φ3/8)	Φ12.7 (Φ1/2)
2	Refrigerant gas pipe	Φ22.22 (Φ7/8)	Φ28.58 (Φ1-1/8)
3	Service Valve (Gas)		
4	Service Valve (Liquid)		
5	Knockout hole for pipe intake	Front / Side / Rear	
6	Power wiring conduits	Φ44 (Φ1-3/4)	
7	Communication wiring conduits	Φ28 (Φ1-1/8)	
8	Drain holes	Connect with the provided drain plug.	
9	Knockout hole for pipe intake	Bottom	

# 5. Center of Gravity

AM040KXMDEH/EU, AM050KXMDEH/EU

Units : mm [inches]

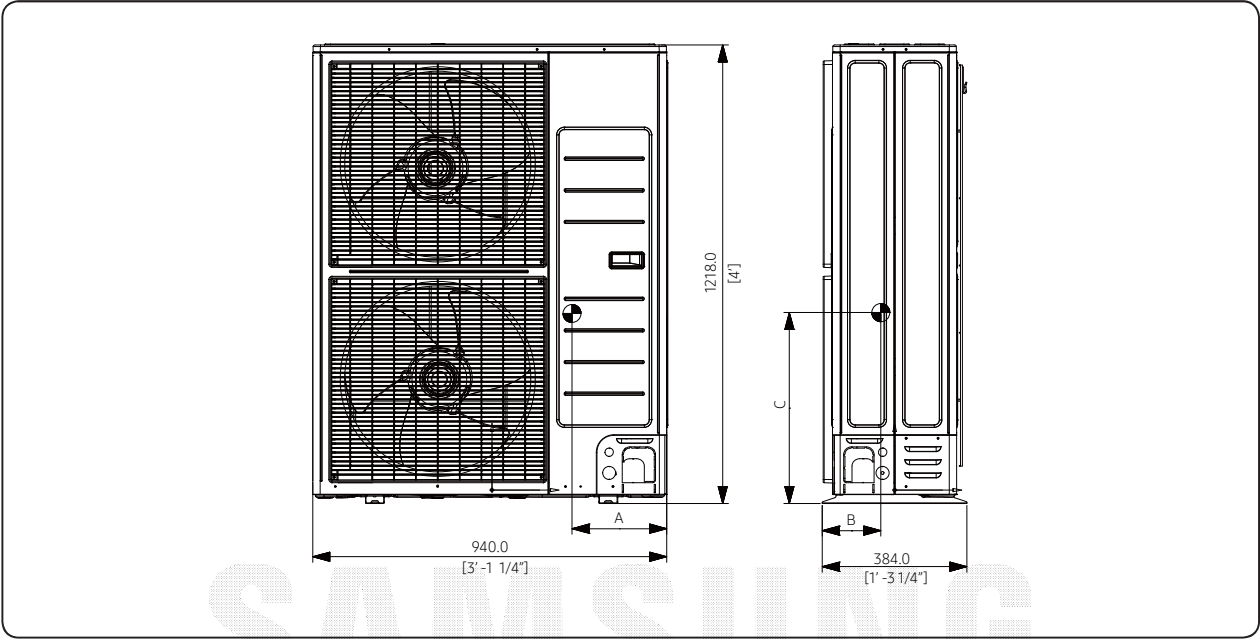


Model	A	B	C
AM040KXMD×H××	205	160	445
AM050KXMD×H××	205	160	445

# 5. Center of Gravity

AM040FXMD×H/EU, AM050FXMD×H/EU, AM060FXMD×H/EU

Units : mm [inches]

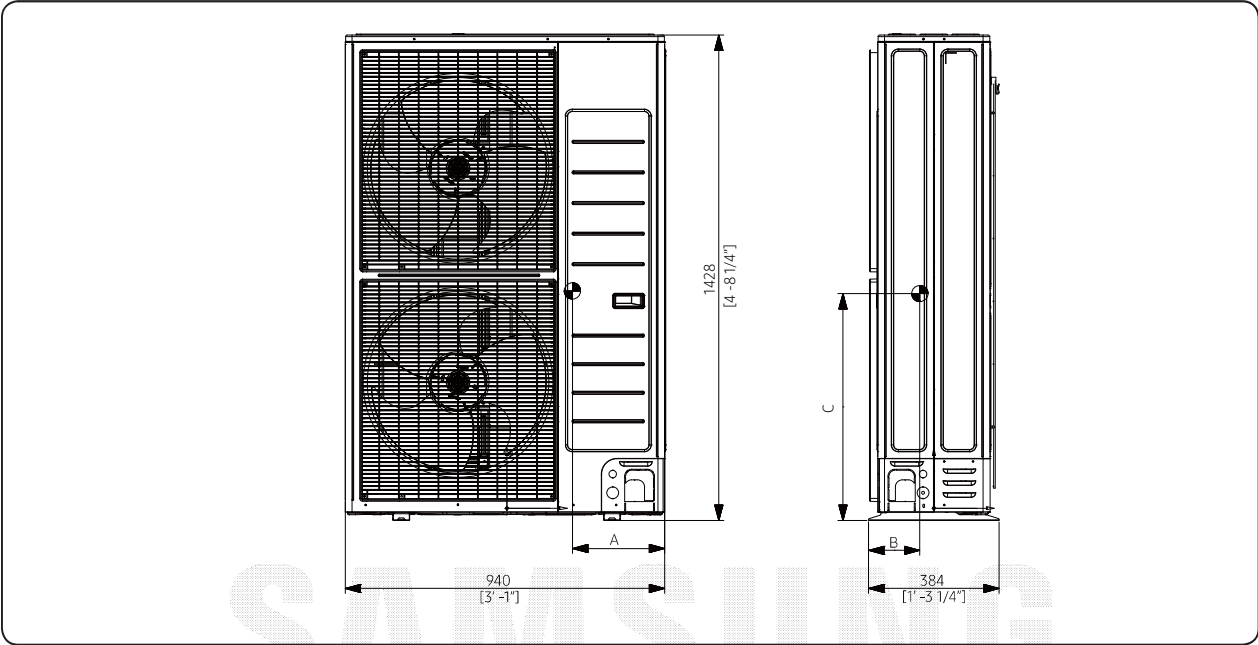


Model	A	B	C
AM040FXMD×H/EU	372	165	557
AM050FXMD×H/EU	372	165	557
AM060FXMD×H/EU	375	172	557

# 5. Center of Gravity

AM080✕XMDGH/EU

Units : mm [inches]



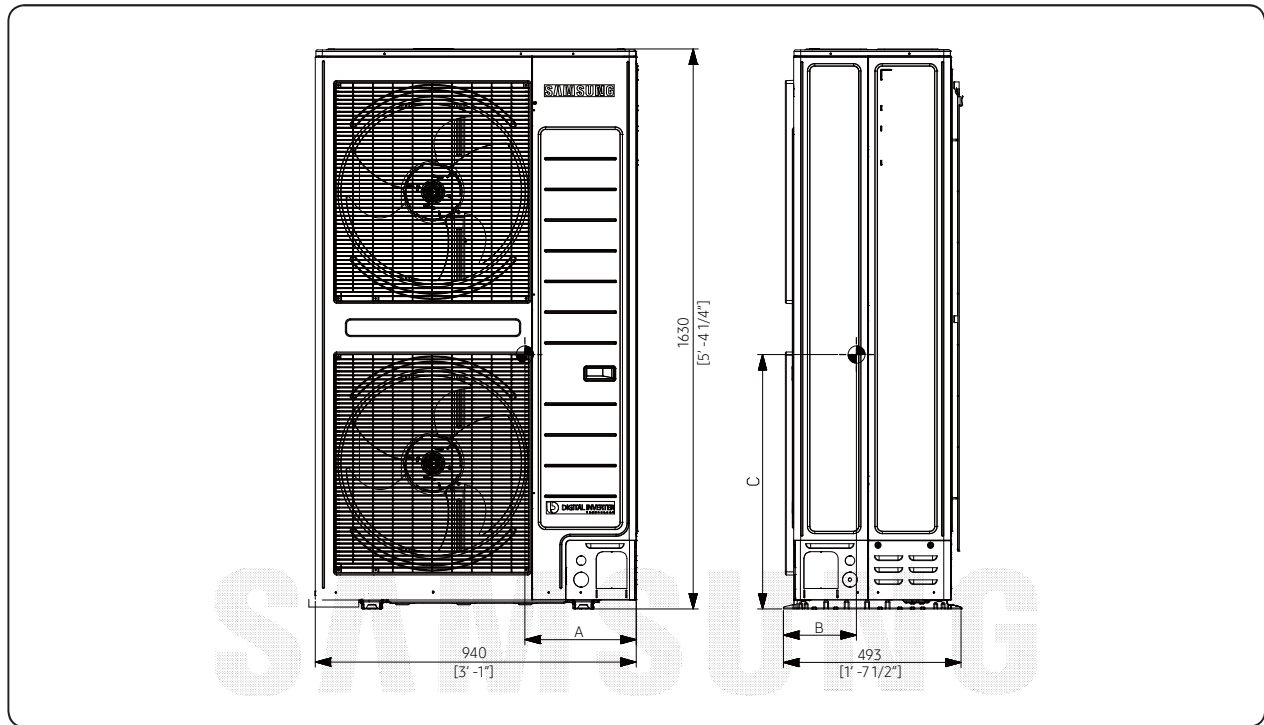
Model	A	B	C
AM080✕XMDGH/EU	363	168	653



## 5. Center of Gravity

AM100KXMDGH/EU, AM120KXMDGH/EU, AM140KXMDGH/EU

Units : mm [inches]



Model	A	B	C
AM100KXMDGH/EU	336	214	746
AM120KXMDGH/EU	336	214	746
AM140KXMDGH/EU	336	214	746

## 7. Sound Data

### Summary

Capacity		Model	Sound Pressure dB(A)		Sound Power dB(A)
HP	KW		Cooling	Heating	
4	12.1	AM040KXMDEH/EU	52	54	73
5	14.0	AM050KXMDEH/EU	55	57	75
4	12.1	AM040FXMDEH/EU	50	52	66
4	12.1	AM040FXMDGH/EU	50	52	66
5	14.0	AM050FXMDEH/EU	51	53	67
5	14.0	AM050FXMDGH/EU	51	53	67
6	15.5	AM060FXMDEH/EU	53	55	69
6	15.5	AM060FXMDGH/EU	53	55	69
8	22.4	AM080FXMDGH/EU	56	58	74
8	22.4	AM080MXMDGH/EU	59	59	77
10	28.0	AM100KXMDGH/EU	58	60	74
12	33.4	AM120KXMDGH/EU	59	61	76
14	40.0	AM140KXMDGH/EU	62	64	79

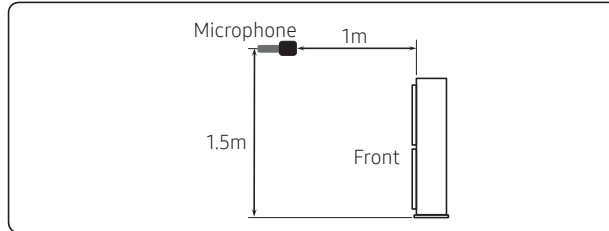
### NOTE

- Specifications may be subject to change without prior notice.
- Sound Pressure Level
  - Sound pressure level is obtained in an anechoic room.
  - Sound pressure level is a relative value, depending on the distance and acoustic environment.
  - Sound pressure level may differ depending on operation condition.
  - dBA = A-weighted sound pressure level
  - Reference acoustic pressure 0 dB = 20μPa
- Sound Power Level
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

## 7. Sound Data

### Sound Pressure level

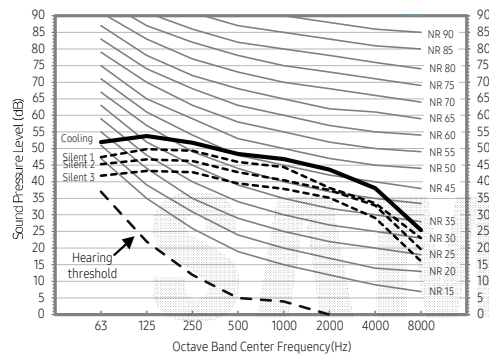
Unit: dB(A)



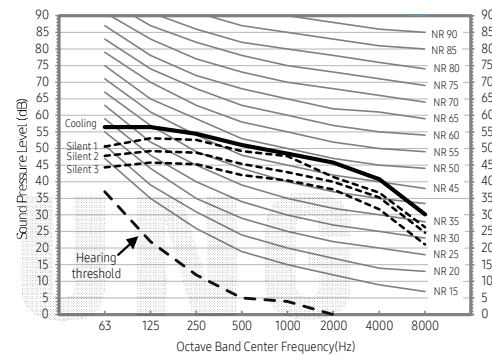
Model	Cooling	Silent1	Silent2	Silent3
AM040KXMDEH***	52	49	46	43
AM050KXMDEH***	55	52	49	46

#### NR Curve

##### 1) AM040KXMDEH\*\*\*



##### 2) AM050KXMDEH\*\*\*

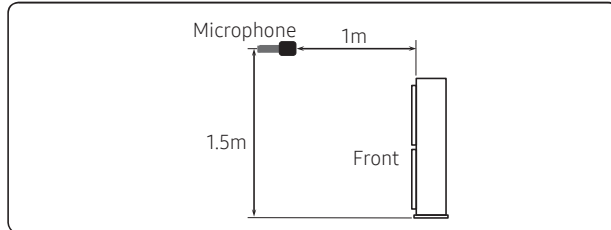


#### NOTE

- Specifications may be subject to change without prior notice.
- Sound pressure Level
  - Sound pressure level is obtained in an anechoic room.
  - Sound pressure level is a relative value, depending on the distance and acoustic environment.
  - Sound pressure level may differ depending on operation condition.
  - dB(A) = A weighted sound pressure level
  - Reference acoustic pressure 0 dB = 20μPa
- Silent mode available by option setting.
  - In cooling mode can be choose depending outdoor temperature/external contact signal
  - In heating mode can be choose only external contact signal

## 7. Sound Data

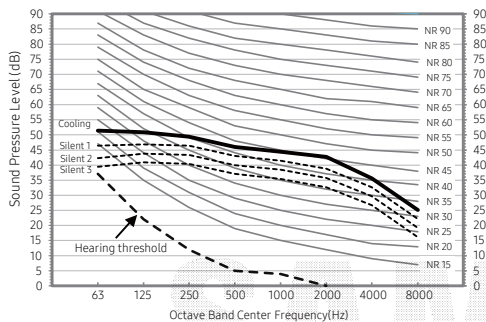
Unit: dB(A)



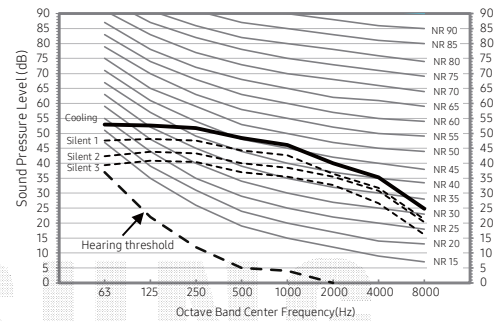
Model	Cooling	Silent1	Silent2	Silent3
AM040FXMD*****	50	47	44	41
AM050FXMD*****	51	48	45	42
AM060FXMD*****	53	50	47	44
AM080FXMD*****	56	53	50	47

### • NR Curve

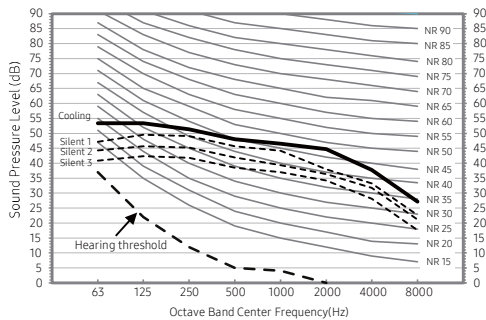
1) AM040FXMD\*\*\*\*\*



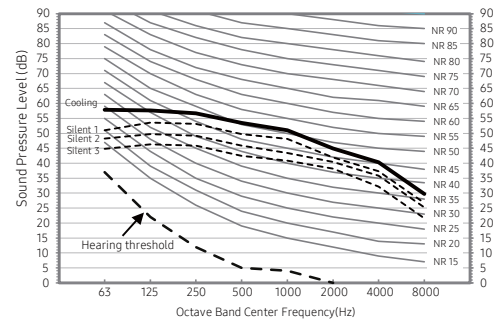
2) AM050FXMD\*\*\*\*\*



3) AM060FXMD\*\*\*\*\*



4) AM080FXMD\*\*\*\*\*

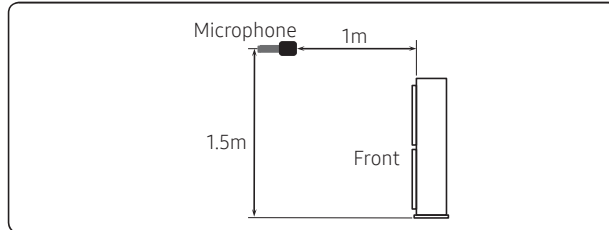


### NOTE

- Specifications may be subject to change without prior notice.
- Sound pressure Level
  - Sound pressure level is obtained in an anechoic room.
  - Sound pressure level is a relative value, depending on the distance and acoustic environment.
  - Sound pressure level may differ depending on operation condition.
  - dBA = A weighted sound pressure level
  - Reference acoustic pressure 0 dB = 20μPa
- Silent mode available by option setting.
  - In cooling mode can be choose depending outdoor temperature/external contact signal
  - In heating mode can be choose only external contact signal

## 7. Sound Data

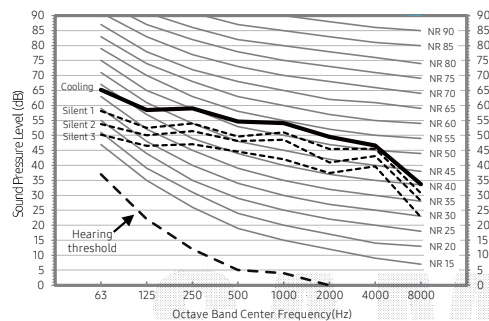
Unit: dB(A)



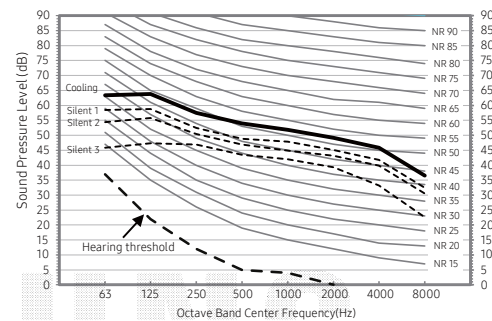
Model	Cooling	Silent1	Silent2	Silent3
AM080MXMD*****	59	56	53	50
AM100KXMD*****	58	55	52	49
AM120KXMD*****	59	56	53	50
AM140KXMD*****	62	59	56	53

### • NR Curve

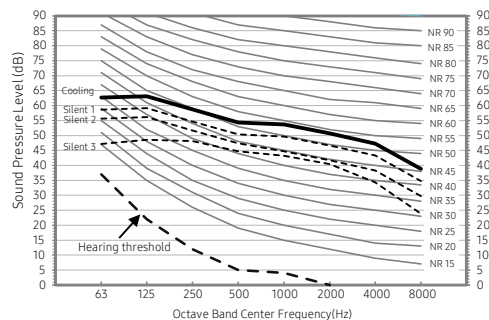
#### 1) AM080MXMD\*\*\*\*\*



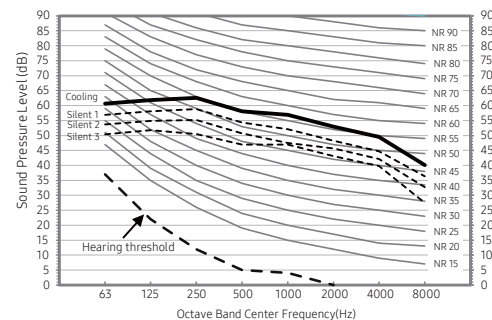
#### 2) AM100KXMD\*\*\*\*\*



#### 3) AM120KXMD\*\*\*\*\*



#### 4) AM140KXMD\*\*\*\*\*



### NOTE

- Specifications may be subject to change without prior notice.
- Sound pressure Levels
  - 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
- Silent mode available by option setting.
  - In cooling mode can be choose depending outdoor temperature/external contact signal
  - In heating mode can be choose only external contact signal

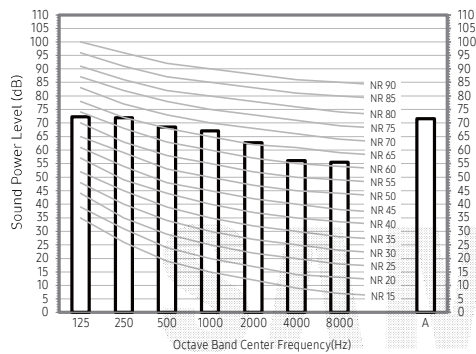
## 7. Sound Data

### Sound Power level

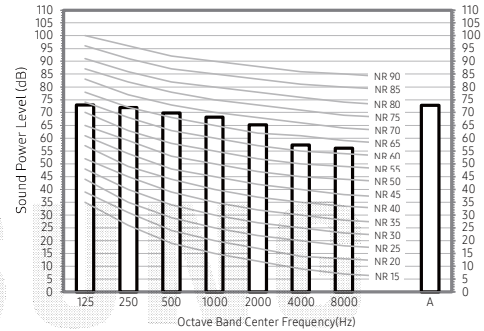
Unit: dB(A)

Model	Power
AM040KXMDEH***	73
AM050KXMDEH***	75

1) AM040KXMDEH\*\*\*



2) AM050KXMDEH\*\*\*



#### NOTE

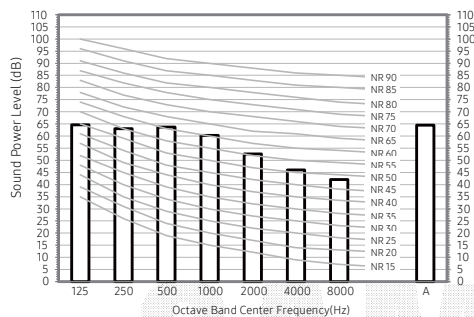
- Specifications may be subject to change without prior notice
- Sound Power Level
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

## 7. Sound Data

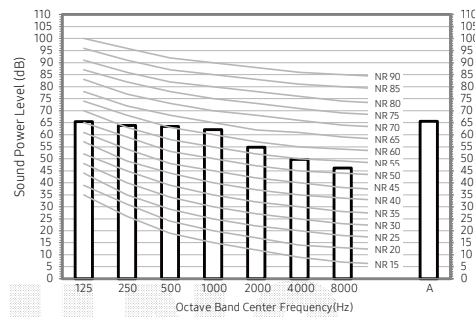
Unit: dB(A)

Model	Power
AM040FXMD*****	66
AM050FXMD*****	67
AM060FXMD*****	69
AM080FXMD*****	74

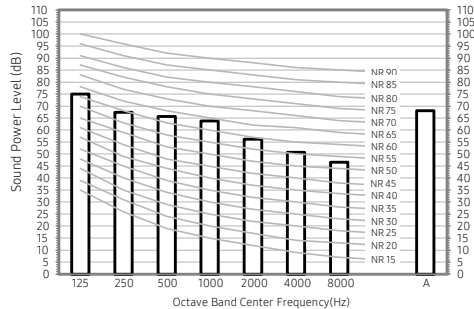
1) AM040FXMD\*\*\*\*\*



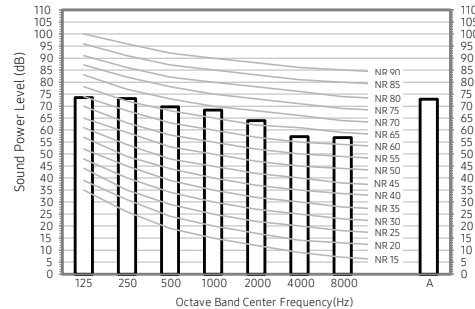
2) AM050FXMD\*\*\*\*\*



3) AM060FXMD\*\*\*\*\*



4) AM080FXMD\*\*\*\*\*



### NOTE

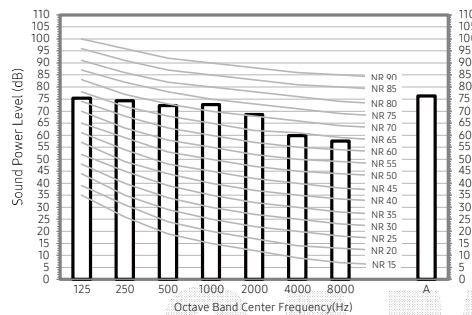
- Specifications may be subject to change without prior notice
- Sound Power Level
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

## 7. Sound Data

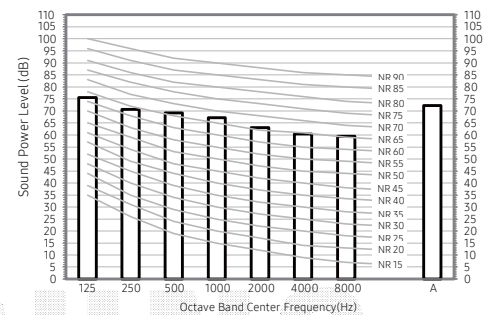
Unit: dB(A)

Model	Power
AM080MXMD*****	77
AM100KXMD*****	74
AM120KXMD*****	76
AM140KXMD*****	79

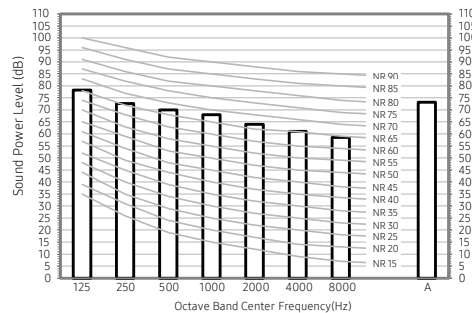
1) AM080MXMD\*\*\*\*\*



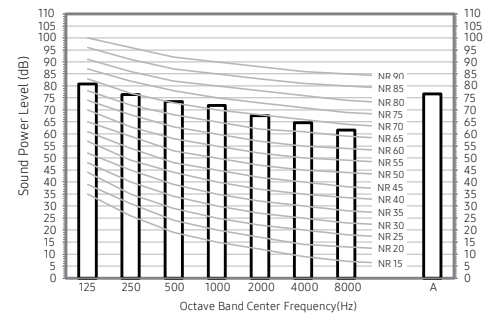
2) AM100KXMD\*\*\*\*\*



3) AM120KXMD\*\*\*\*\*



4) AM140KXMD\*\*\*\*\*



### NOTE

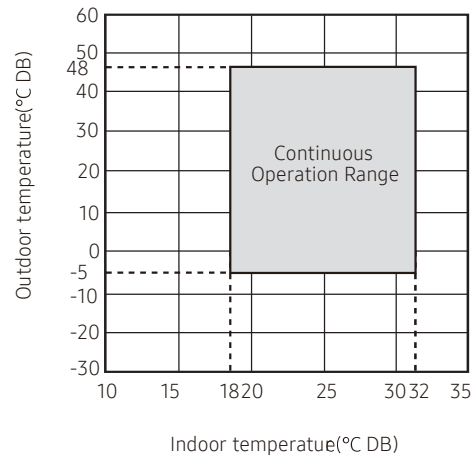
- Specifications may be subject to change without prior notice
- Sound Power Level
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.



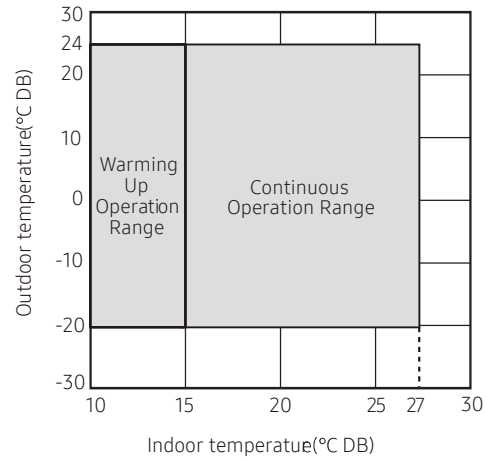
## 8. Operation Range

AM040KXMDEH/EU, AM050KXMDEH/EU, AM080\*XMDEH/EU

Cooling

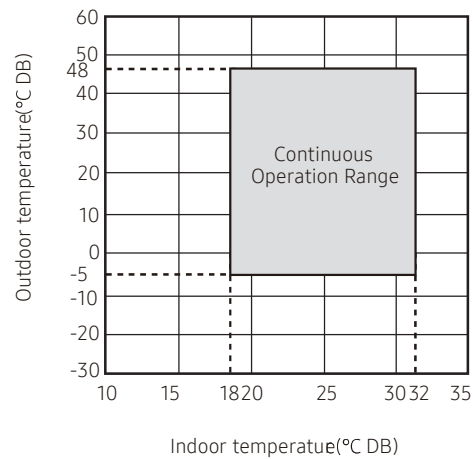


Heating

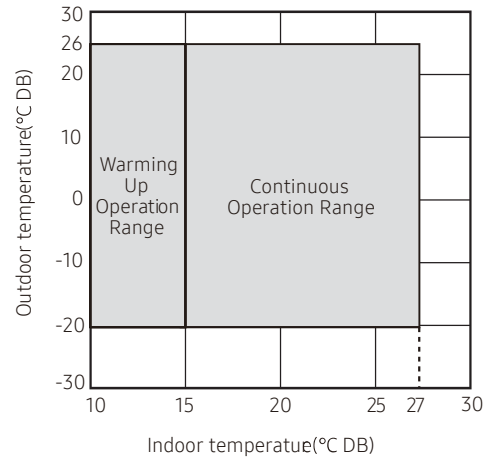


AM040FXMD\*H/EU, AM050FXMD\*H/EU, AM060FXMD\*H/EU

Cooling



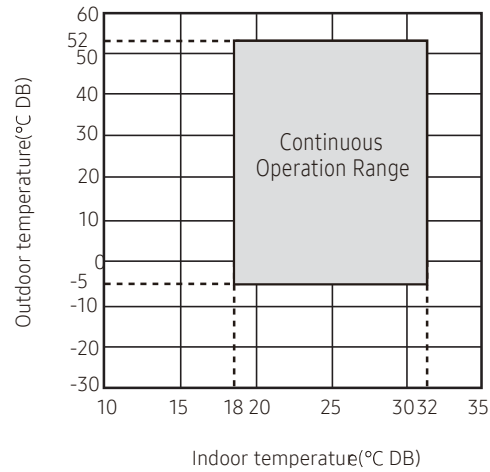
Heating



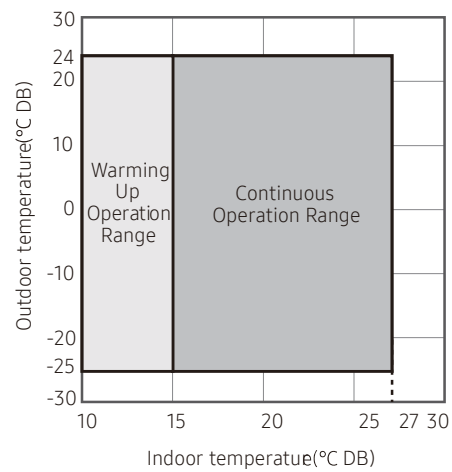
## 8. Operation Range

AM100KXMDGH/EU, AM120KXMDGH/EU, AM140KXMDGH/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.

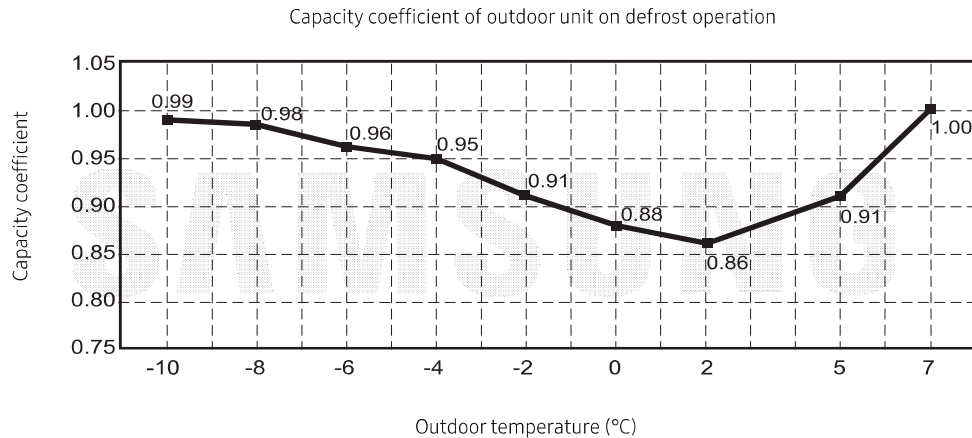
## 8. Operation Range

### Defrosting correction factor

The heating capacity tables do not take account of the reduction in capacity, when frost has accumulated or while the defrosting operation is in progress. The capacity values, which take these factors into account, in other words, the integrated heating capacity values, can be calculated as follows :

- (1) Formula :  $A = B \times C$
- (2) Integrated heating capacity = A
- (3) Value given in table of capacity characteristics = B
- (4) Integrating correction factor for frost accumulation (kW) = C

Outdoor temperature (°C, DB) / WB	-10 / -10.4	-8 / -8.5	-6 / -6.5	-4 / -4.6	-2 / -2.7	0 / -0.7	2 / 1.2	5 / 4.1	7 / 6
Capacity coefficient	0.99	0.98	0.96	0.95	0.91	0.88	0.86	0.91	1.00



On heating operation, frost can be formed on heat exchanger according to outdoor temperature.

(Frost on heat exchanger results in decreasing the performance.)

To remove frost on heat exchanger of outdoor unit, defrost operation is carried out periodically.

During defrost operation, capacity of outdoor unit may decrease.

The decrement is not considered to the individual capacity tables.

This figure shows an effect of intelligence defrost operation

It is actually the frost occurrence section from 0 °C or less.

Since the outdoor temperature over 0 °C, the heating performance is the same before and after applying intelligence defrost operation

In outdoor conditions below 0 °C, frost conditions reflect the actual entering the defrost operation because heating performance is improved