

SINGLE

Technical Data Book

Big Ceiling for Europe (R410A, 50Hz, H/P)

SAMSUNG

[illegible]

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1 Nomenclature

Indoor Units

Model Names

AC	100	J	N	C	D	E	H	/	EU
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)		Buyer

(1) Classification

AC	SINGLE
AM	VRF

(2) Capacity

x 1/10 kW (3 digits)

(3) Version

F	2013
H	2014
J	2015

(4) Product Type

N	Indoor Unit
X	Outdoor Unit

(5) Product Notation

1	1Way Cassette
2	2Way Cassette
N	4Way Cassette S (600 x 600)
4	4Way Cassette S
L	LSP Duct (Slim Duct)
M	MSP Duct
H	HSP Duct
C	Ceiling
T	Neo Forte
E	OAP Duct

(6) Feature

D	DELUXE
F	FLAGSHIP
P	Premium
G(EHS)	Cascade (EEV)

(7) Rating Voltage

C	1Ø, 208~230V, 60Hz
E	1Ø, 220~240V, 50Hz
G	3Ø, 380~415V, 50Hz
K	1Ø, 220~240V, 50/60Hz
N	3Ø, 380~415V, 50/60Hz

(8) Mode

C	Cooling Only(R410A)
H	Heat Pump(R410A)
D	Cooling Only(R22)
E	Heat Pump(R22)

1 Nomenclature

Outdoor Units

Model Names

AC	100	J	X	A	D	E	H	/	EU
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)		Buyer

(1) Classification

AC	SINGLE
AM	VRF

(2) Capacity

x 1/10 kW (3 digits)
x 1,000 Btu/h (3 digits)

(3) Version

F	2013
H	2014
J	2015

(4) Product Type

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

(5) Feature1

A	Inv+Side+General Temp
B	Non Inv+Side+General Temp
S	Inv+Side+Low Temp.
N	Non Inv+Side+Low Temp.

(6) Feature2

F	Standrad+Tropical+Non Module
S	Standard
D	Deluxe
P	Premium
C	Deluxe + Low Temp.

(7) Rating Voltage

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

(8) Mode

H	Heat Pump(R410A)
C	Cooling Only(R410A)
E	Heat Pump(R22)
D	Cooling Only(R22)

2 Specifications

Ceiling

Type				Ceiling	Ceiling	Ceiling		
Model Name		Indoor Unit		AC100JNCDEH/EU	AC100JNCDEH/EU	AC120JNCDEH/EU		
		Outdoor Unit		AC100JXADEH/EU	AC100JXADGH/EU	AC120JXADEH/EU		
System	Mode			Heat Pump	Heat Pump	Heat Pump		
	Capacity	Cooling(Min/Std/Max)		kW	2.80 / 10.00 / 12.00	2.80 / 10.00 / 12.00	3.50 / 12.00 / 13.50	
				Btu/h	9,600 / 34,100 / 40,900	9,600 / 34,100 / 40,900	11,900 / 40,900 / 46,100	
		Heating(Min/Std/Max)		kW	2.90 / 11.20 / 15.50	2.90 / 11.20 / 15.50	3.80 / 13.00 / 16.50	
				Btu/h	9,900 / 38,200 / 52,900	9,900 / 38,200 / 52,900	13,000 / 44,400 / 56,300	
	Power	Power Input (Nominal)	Cooling(Min/Std/Max)	kW	0.75 / 3.45 / 5.00	0.75 / 3.45 / 5.00	0.90 / 4.70 / 5.50	
			Heating(Min/Std/Max)		0.65 / 3.15 / 5.50	0.65 / 3.15 / 5.50	0.70 / 3.75 / 5.60	
		Current Input (Nominal)	Cooling(Min/Std/Max)	A	4.30 / 15.00 / 21.50	1.60 / 5.40 / 7.50	5.10 / 20.40 / 23.50	
			Heating(Min/Std/Max)		3.40 / 13.70 / 21.80	1.40 / 4.90 / 9.00	3.90 / 16.40 / 22.80	
		MCA		A	26.70 (MCA)	14.70 (MCA)	26.70 (MCA)	
		MFA		A	30.00	16.20	30.00	
	Energy Efficiency	EER (Nominal Cooling)		-	2.90	2.90	2.55	
		COP (Nominal Heating)		-	3.56	3.56	3.47	
		Energy Grade		-	Energy Grade(C) A+	Energy Grade(C) A+	Energy Grade(C) A+	
				-	Energy Grade(H) A	Energy Grade(H) A	Energy Grade(H) A	
	Piping Connections	Liquid Pipe		Ø, mm	9.52	9.52	9.52	
				Ø, inch	3/8"	3/8"	3/8"	
		Gas Pipe		Ø, mm	15.88	15.88	15.88	
				Ø, inch	5/8"	5/8"	5/8"	
		Installation Limitation	Max. Length	m	50 (55)	50 (55)	50 (55)	
			Max. Height	m	30 (30)	30 (30)	30 (30)	
	Field Wiring	Power Source Wire		Ø, mm	-	-	-	
		Transmission Cable		Ø, mm	0.75 ~ 1.50	0.75 ~ 1.50	0.75 ~ 1.50	
	Refrigerant	Type		-	R410A(GWP >150)	R410A(GWP >150)	R410A(GWP >150)	
		Control Method		-	-	-	-	
		Factory Charging		kg	2.80	2.80	2.90	
Indoor Unit	Power Supply			Ø, #, V, Hz	1,2,220-240,50	1,2,220-240,50		
	Fan	Type		-	Sirroco	Sirroco		
		Motor	Output	W	244 x 1	244 x 1		
				CMM	26.00 / 23.00 / 19.00	26.00 / 23.00 / 19.00	30.00 / 24.00 / 20.00	
		Air Flow Rate	High/Mid/Low	l/s	433.33 / 383.33 / 316.67	433.33 / 383.33 / 316.67	500.00 / 400.00 / 333.33	
		External Static Pressure		Min/Std/Max	mmAq	-	-	-
	Pa				-	-	-	
	Drain	Drain Pipe		Ø,mm	VP20 (OD 25,ID 20)	VP20 (OD 25,ID 20)	VP20 (OD 25,ID 20)	
	Sound	Pressure	High/Mid/Low	dB(A)	42.0 / 38.0 / 34.0	42.0 / 38.0 / 34.0	44.0 / 41.0 / 37.0	
		Power	Cooling		60.0	60.0	62.0	
	External Dimension	Net Weight		kg	42.00	42.00	42.00	
		Shipping Weight		kg	48.00	48.00	48.00	
		Net Dimensions (WxHxD)		mm	1,650 x 675 x 235	1,650 x 675 x 235	1,650 x 675 x 235	
		Shipping Dimensions (WxHxD)		mm	1,739 x 758 x 321	1,739 x 758 x 321	1,739 x 758 x 321	
	Panel Size	Panel model		-	-	-	-	
		Panel Net Weight		kg	-	-	-	
		Shipping Weight		kg	-	-	-	
		Net Dimensions (WxHxD)		mm	-	-	-	
		Shipping Dimensions (WxHxD)		mm	-	-	-	
	Additional Accessories	Drain pump	Drain pump	-	-	-	-	
			Max. Lifting	mm/liter/h	-	-	-	
		Air Filter		-	-	-	-	
	Outdoor Unit	Power Supply			Ø, #, V, Hz	1,2,220-240,50	3,4,380-415,50	1,2,220-240,50
		Compressor	Type		-	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC -
			Model		-	UG8T300LNBJU	UG8T300LNBJU	UG5T450FUEJX
			Output		kW	2.82	2.82	4.12
Oil			Type	-	POE	POE	PVE	
		Fan		Air Flow Rate	Cooling	CMM	68.00	68.00
Sound		Pressure	Cooling/Heating	dB(A)	l/s	1,133.33	1,133.33	1,166.67
					52.0 / 54.0	52.0 / 54.0	54.0 / 56.0	
		Power	Cooling		69.0	69.0	70.0	
					Net Weight	kg	70.00	72.00
External Dimension		Shipping Weight		kg	74.00	76.00	82.00	
		Net Dimensions (WxHxD)		mm	940 x 998 x 330	940 x 998 x 330	940 x 998 x 330	
		Shipping Dimensions (WxHxD)		mm	995 x 1,096 x 426	995 x 1,096 x 426	995 x 1,096 x 426	
Operating Temp. Range		Cooling		°C	-15.0 ~ 50.0	-15.0 ~ 50.0	-15.0 ~ 50.0	
		Heating		°C	-20.0 ~ 24.0	-20.0 ~ 24.0	-20.0 ~ 24.0	

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

*1) Mode

- HP : Heat Pump, HR : Heat Recovery

*2) Nominal cooling capacities are based on;

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

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

*3) Nominal heating capacities are based on;

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

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

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

*5) These products contain R410A which have a global warming potential (GWP) greater than 150.

2 Specifications

Ceiling

Type				Ceiling	Ceiling	Ceiling
Model Name		Indoor Unit		AC120JNCDEH/EU	AC140JNCDEH/EU	AC140JNCDEH/EU
		Outdoor Unit		AC120JXADGH/EU	AC140JXADEH/EU	AC140JXADGH/EU
System	Mode			Heat Pump	Heat Pump	Heat Pump
	Capacity	Cooling(Min/Std/Max)		kW	3.50 / 12.00 / 13.50	4.30 / 14.00 / 15.40
				Btu/h	11,900 / 40,900 / 46,100	14,700 / 47,800 / 52,500
		Heating(Min/Std/Max)		kW	3.80 / 13.00 / 16.50	4.70 / 16.00 / 18.00
				Btu/h	13,000 / 44,400 / 56,300	16,000 / 54,600 / 61,400
	Power	Power Input (Nominal)	Cooling(Min/Std/Max)	kW	0.90 / 4.70 / 5.50	0.90 / 4.65 / 5.50
			Heating(Min/Std/Max)		0.70 / 3.75 / 5.60	0.80 / 4.43 / 5.70
		Current Input (Nominal)	Cooling(Min/Std/Max)	A	1.70 / 7.20 / 9.50	5.10 / 20.20 / 23.50
			Heating(Min/Std/Max)		1.50 / 5.80 / 9.10	4.50 / 19.30 / 23.50
		MCA		A	14.70 (MCA)	26.70 (MCA)
		MFA		A	16.20	30.00
	Energy Efficiency	EER (Nominal Cooling)		-	2.55	3.01
		COP (Nominal Heating)		-	3.47	3.61
		Energy Grade		-	Energy Grade(C) A+	Energy Grade(C)
				-	Energy Grade(H) A	Energy Grade(H)
	Piping Connections	Liquid Pipe		Ø, mm	9.52	9.52
				Ø, inch	3/8"	3/8"
		Gas Pipe		Ø, mm	15.88	15.88
				Ø, inch	5/8"	5/8"
		Installation Limitation	Max. Length	m	50 (55)	75 (75)
			Max. Height	m	30 (30)	30 (30)
	Field Wiring	Power Source Wire		Ø, mm	-	-
		Transmission Cable		Ø, mm	0.75 ~ 1.50	0.75 ~ 1.50
	Refrigerant	Type		-	R410A(GWP >150)	R410A(GWP >150)
		Control Method		-	-	-
Factory Charging		kg	2.90	3.20		
Indoor Unit	Power Supply			Ø, #, V, Hz	1,2,220-240,50	1,2,220-240,50
	Fan	Type		-	Sirroco	Sirroco
		Motor	Output	W	244 x 1	244 x 1
				CMM	30.00 / 24.00 / 20.00	34.00 / 27.00 / 23.00
		Air Flow Rate	High/Mid/Low	l/s	500.00 / 400.00 / 333.33	566.67 / 450.00 / 383.33
		External Static Pressure		mmAq	-	-
	Pa			-	-	
	Drain	Drain Pipe		Ø,mm	VP20 (OD 25,ID 20)	VP20 (OD 25,ID 20)
	Sound	Pressure	High/Mid/Low	dB(A)	44.0 / 41.0 / 37.0	46.0 / 42.0 / 38.0
		Power	Cooling		62.0	64.0
	External Dimension	Net Weight		kg	42.00	42.00
		Shipping Weight		kg	48.00	48.00
		Net Dimensions (WxHxD)		mm	1,650 x 675 x 235	1,650 x 675 x 235
		Shipping Dimensions (WxHxD)		mm	1,739 x 758 x 321	1,739 x 758 x 321
	Panel Size	Panel model		-	-	-
		Panel Net Weight		kg	-	-
		Shipping Weight		kg	-	-
		Net Dimensions (WxHxD)		mm	-	-
	Additional Accessories	Shipping Dimensions (WxHxD)		mm	-	-
		Drain pump	Drain pump	-	-	-
Max. Lifting			mm/liter/h	-	-	-
	Air Filter		-	-	-	
	Power Supply			Ø, #, V, Hz	3,4,380-415,50	1,2,220-240,50
Outdoor Unit	Compressor	Type		-	Twin BLDC -	Twin BLDC -
		Model		-	UG5T450FUEJX	UG5T450FUEJX
		Output		kW	4.12	4.12
		Oil	Type	-	PVE	PVE
	Air Flow Rate			Cooling	CMM	70.00
	Sound	Pressure	Cooling/Heating	dB(A)	54.0 / 56.0	53.0 / 54.0
			Power		Cooling	70.0
	External Dimension	Net Weight		kg	79.00	88.00
		Shipping Weight		kg	84.00	98.00
		Net Dimensions (WxHxD)		mm	940 x 998 x 330	940 x 1,210 x 330
		Shipping Dimensions (WxHxD)		mm	995 x 1,096 x 426	995 x 1,388 x 426
	Operating Temp. Range	Cooling		°C	-15.0 ~ 50.0	-15.0 ~ 50.0
		Heating		°C	-20.0 ~ 24.0	-20.0 ~ 24.0

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

*1) Mode

- HP : Heat Pump, HR : Heat Recovery

*2) Nominal cooling capacities are based on;

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

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

*3) Nominal heating capacities are based on;

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

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

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

*5) These products contain R410A which have a global warming potential (GWP) greater than 150.

3 Capacity table

Ceiling

AC100JNCDEH/EU + AC100JXADEH/EU

Cooling

TC(Total Capacity), SHC(Sensible Heat Capacity), PI(Power Input)

Outdoor temperature (°C, DB)	Indoor temperature (°C, WB)																	
	14.0			16.0			18.0			19.0			22.0			24.0		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15.0	9.76	7.81	1.58	10.00	8.00	1.62	10.25	8.20	1.66	10.50	8.40	1.70	10.75	8.60	1.74	11.01	8.81	1.78
21.0	10.23	8.18	2.79	10.48	8.38	2.86	10.74	8.59	2.93	11.00	8.80	3.00	11.26	9.01	3.07	11.53	9.23	3.15
35.0	9.30	7.44	3.21	9.53	7.62	3.29	9.76	7.81	3.37	10.00	8.00	3.45	10.24	8.19	3.53	10.49	8.39	3.62
46.0	6.90	5.52	2.93	7.07	5.65	3.00	7.24	5.79	3.07	7.42	5.93	3.15	7.60	6.08	3.23	7.78	6.22	3.30
50.0	5.34	2.09	1.33	5.47	2.14	1.36	5.60	2.20	1.40	5.74	4.59	2.86	5.88	4.70	3.55	6.02	4.82	3.63

Heating

TC : Total Capacity, PI: Power Input

Outdoor temperature (°C, DB)	Indoor temperature (°C, DB)											
	16.0		18.0		20.0		21.0		22.0		24.0	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20.0	7.34	3.06	7.27	3.03	7.20	3.00	7.13	2.97	7.06	2.94	6.99	2.91
-10.0	11.02	5.00	10.91	4.95	10.80	4.90	10.69	4.85	10.59	4.80	10.48	4.75
7.0	11.43	3.21	11.31	3.18	11.20	3.15	11.09	3.12	10.98	3.09	10.87	3.06
24.0	14.08	3.92	13.94	3.88	13.80	3.84	13.66	3.80	13.53	3.76	13.39	3.73

AC100JNCDEH/EU + AC100JXADGH/EU

Cooling

TC(Total Capacity), SHC(Sensible Heat Capacity), PI(Power Input)

Outdoor temperature (°C, DB)	Indoor temperature (°C, WB)																	
	14.0			16.0			18.0			19.0			22.0			24.0		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15.0	9.76	7.81	1.58	10.00	8.00	1.62	10.25	8.20	1.66	10.50	8.40	1.70	10.75	8.60	1.74	11.01	8.81	1.78
21.0	10.23	8.18	2.79	10.48	8.38	2.86	10.74	8.59	2.93	11.00	8.80	3.00	11.26	9.01	3.07	11.53	9.23	3.15
35.0	9.30	7.44	3.21	9.53	7.62	3.29	9.76	7.81	3.37	10.00	8.00	3.45	10.24	8.19	3.53	10.49	8.39	3.62
46.0	6.90	5.52	2.93	7.07	5.65	3.00	7.24	5.79	3.07	7.42	5.93	3.15	7.60	6.08	3.23	7.78	6.22	3.30
50.0	5.34	2.09	1.33	5.47	2.14	1.36	5.60	2.20	1.40	5.74	4.59	2.66	5.88	4.70	3.30	6.02	4.82	3.38

Heating

TC : Total Capacity PI: Power Input

Outdoor temperature (°C, DB)	Indoor temperature (°C, DB)											
	16.0		18.0		20.0		21.0		22.0		24.0	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20.0	7.34	3.06	7.27	3.03	7.20	3.00	7.13	2.97	7.06	2.94	6.99	2.91
-10.0	11.02	5.00	10.91	4.95	10.80	4.90	10.69	4.85	10.59	4.80	10.48	4.75
7.0	11.43	3.21	11.31	3.18	11.20	3.15	11.09	3.12	10.98	3.09	10.87	3.06
24.0	14.08	3.92	13.94	3.88	13.80	3.84	13.66	3.80	13.53	3.76	13.39	3.73

- Capacities are based on following conditions;

- . Cooling mode indoor air temperature (°C, DB/WB) : 20/14, 22/16, 25/18, 27/19, 28/20, 30/22, 32/24
- . Heating mode outdoor air : 85%RH. However, the condition rated capacity is 7°C DB / 6°C WB.
- . Refrigerant piping length : 5m
- . Level difference : 0m.

3 Capacity table

Ceiling

AC120JNCDEH/EU + AC120JXADEH/EU

Cooling

TC(Total Capacity), SHC(Sensible Heat Capacity), PI(Power Input)

Outdoor temperature (°C, DB)	Indoor temperature (°C, WB)																	
	14.0			16.0			18.0			19.0			22.0			24.0		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
-15.0	10.07	8.06	3.25	10.32	8.25	3.33	10.57	8.46	3.42	10.83	8.66	3.50	11.09	8.87	3.58	11.36	9.08	3.67
21.0	12.82	10.26	3.90	13.14	10.51	4.00	13.46	10.77	4.10	13.79	11.03	4.20	14.12	11.30	4.30	14.46	11.57	4.40
35.0	11.16	8.93	4.37	11.43	9.14	4.48	11.71	9.37	4.59	12.00	9.60	4.70	12.29	9.83	4.81	12.58	10.07	4.93
46.0	8.20	6.56	3.35	8.40	6.72	3.43	8.61	6.89	3.51	8.82	7.06	3.60	9.03	7.23	3.69	9.25	7.40	3.77
50.0	5.66	2.09	1.33	5.80	2.14	1.36	5.94	2.20	1.40	6.09	4.87	2.97	6.24	4.99	3.68	6.39	5.11	3.77

Heating

TC : Total Capacity, PI: Power Input

Outdoor temperature (°C, DB)	Indoor temperature (°C, DB)											
	16.0		18.0		20.0		21.0		22.0		24.0	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
-20.0	8.71	4.03	8.63	3.99	8.54	3.95	8.45	3.91	8.37	3.87	8.29	3.83
-10.0	12.82	5.22	12.70	5.17	12.57	5.12	12.44	5.07	12.32	5.02	12.20	4.97
7.0	13.26	3.83	13.13	3.79	13.00	3.75	12.87	3.71	12.74	3.68	12.61	3.64
24.0	14.93	4.24	14.79	4.20	14.64	4.16	14.49	4.12	14.35	4.08	14.21	4.04

AC120JNCDEH/EU + AC120JXADGH/EU

Cooling

TC(Total Capacity), SHC(Sensible Heat Capacity), PI(Power Input)

Outdoor temperature (°C, DB)	Indoor temperature (°C, WB)																	
	14.0			16.0			18.0			19.0			22.0			24.0		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
-15.0	10.07	8.06	3.25	10.32	8.25	3.33	10.57	8.46	3.42	10.83	8.66	3.50	11.09	8.87	3.58	11.36	9.08	3.67
21.0	12.82	10.26	3.90	13.14	10.51	4.00	13.46	10.77	4.10	13.79	11.03	4.20	14.12	11.30	4.30	14.46	11.57	4.40
35.0	11.16	8.93	4.37	11.43	9.14	4.48	11.71	9.37	4.59	12.00	9.60	4.70	12.29	9.83	4.81	12.58	10.07	4.93
46.0	8.20	6.56	3.35	8.40	6.72	3.43	8.61	6.89	3.51	8.82	7.06	3.60	9.03	7.23	3.69	9.25	7.40	3.77
50.0	5.66	2.09	1.33	5.80	2.14	1.36	5.94	2.20	1.40	6.09	4.87	2.97	6.24	4.99	3.68	6.39	5.11	3.77

Heating

TC : Total Capacity PI: Power Input

Outdoor temperature (°C, DB)	Indoor temperature (°C, DB)											
	16.0		18.0		20.0		21.0		22.0		24.0	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
-20.0	8.71	4.03	8.63	3.99	8.54	3.95	8.45	3.91	8.37	3.87	8.29	3.83
-10.0	12.82	5.22	12.70	5.17	12.57	5.12	12.44	5.07	12.32	5.02	12.20	4.97
7.0	13.26	3.83	13.13	3.79	13.00	3.75	12.87	3.71	12.74	3.68	12.61	3.64
24.0	14.93	4.24	14.79	4.20	14.64	4.16	14.49	4.12	14.35	4.08	14.21	4.04

- Capacities are based on following conditions;

- . Cooling mode indoor air temperature (°C, DB/WB) : 20/14, 22/16, 25/18, 27/19, 28/20, 30/22, 32/24
- . Heating mode outdoor air : 85%RH. However, the condition rated capacity is 7°C DB / 6°C WB.
- . Refrigerant piping length : 5m
- . Level difference : 0m.

3 Capacity table

Ceiling

AC140JNCDEH/EU + AC140JXADEH/EU

Cooling

TC(Total Capacity), SHC(Sensible Heat Capacity), PI(Power Input)

Outdoor temperature (°C, DB)	Indoor temperature (°C, WB)																	
	14.0			16.0			18.0			19.0			22.0			24.0		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15.0	10.30	8.24	3.30	10.55	8.44	3.38	10.81	8.65	3.46	11.08	8.86	3.55	11.35	9.08	3.64	11.62	9.29	3.72
21.0	14.84	11.87	4.68	15.20	12.16	4.80	15.58	12.46	4.92	15.96	12.77	5.04	16.34	13.07	5.16	16.74	13.39	5.28
35.0	13.02	10.41	4.32	13.34	10.67	4.43	13.66	10.93	4.54	14.00	11.20	4.65	14.34	11.47	4.76	14.68	11.74	4.88
46.0	8.96	7.17	3.93	9.18	7.35	4.03	9.41	7.53	4.13	9.64	7.71	4.23	9.87	7.90	4.33	10.11	8.09	4.44
50.0	6.02	2.09	1.33	6.17	2.14	1.36	6.32	2.20	1.40	6.48	5.18	3.17	6.64	5.31	3.93	6.79	5.44	4.03

Heating

TC : Total Capacity, PI: Power Input

Outdoor temperature (°C, DB)	Indoor temperature (°C, DB)											
	16.0		18.0		20.0		21.0		22.0		24.0	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20.0	9.67	4.26	9.57	4.22	9.48	4.18	9.38	4.14	9.29	4.10	9.20	4.06
-10.0	13.87	5.71	13.74	5.66	13.60	5.60	13.46	5.54	13.33	5.49	13.20	5.43
7.0	16.32	4.52	16.16	4.47	16.00	4.43	15.84	4.39	15.68	4.34	15.52	4.30
24.0	19.98	4.60	19.79	4.56	19.59	4.51	19.39	4.46	19.20	4.42	19.01	4.38

AC140JNCDEH/EU + AC140JXADGH/EU

Cooling

TC(Total Capacity), SHC(Sensible Heat Capacity), PI(Power Input)

Outdoor temperature (°C, DB)	Indoor temperature (°C, WB)																	
	14.0			16.0			18.0			19.0			22.0			24.0		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15.0	10.30	8.24	3.30	10.55	8.44	3.38	10.81	8.65	3.46	11.08	8.86	3.55	11.35	9.08	3.64	11.62	9.29	3.72
21.0	14.84	11.87	4.68	15.20	12.16	4.80	15.58	12.46	4.92	15.96	12.77	5.04	16.34	13.07	5.16	16.74	13.39	5.28
35.0	13.02	10.41	4.32	13.34	10.67	4.43	13.66	10.93	4.54	14.00	11.20	4.65	14.34	11.47	4.76	14.68	11.74	4.88
46.0	8.96	7.17	3.93	9.18	7.35	4.03	9.41	7.53	4.13	9.64	7.71	4.23	9.87	7.90	4.33	10.11	8.09	4.44
50.0	6.02	2.09	1.33	6.17	2.14	1.36	6.32	2.20	1.40	6.48	5.18	3.17	6.64	5.31	3.93	6.79	5.44	4.03

Heating

TC : Total Capacity PI: Power Input

Outdoor temperature (°C, DB)	Indoor temperature (°C, DB)											
	16.0		18.0		20.0		21.0		22.0		24.0	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20.0	9.67	4.26	9.57	4.22	9.48	4.18	9.38	4.14	9.29	4.10	9.20	4.06
-10.0	13.87	5.71	13.74	5.66	13.60	5.60	13.46	5.54	13.33	5.49	13.20	5.43
7.0	16.32	4.52	16.16	4.47	16.00	4.43	15.84	4.39	15.68	4.34	15.52	4.30
24.0	19.98	4.60	19.79	4.56	19.59	4.51	19.39	4.46	19.20	4.42	19.01	4.38

- Capacities are based on following conditions;

- . Cooling mode indoor air temperature (°C, DB/WB) : 20/14, 22/16, 25/18, 27/19, 28/20, 30/22, 32/24
- . Heating mode outdoor air : 85%RH. However, the condition rated capacity is 7°C DB / 6°C WB.
- . Refrigerant piping length : 5m
- . Level difference : 0m.

4 Dimensional drawing

Ceiling

AC100JNCDEH/EU, AC120JNCDEH/EU, AC140JNCDEH/EU

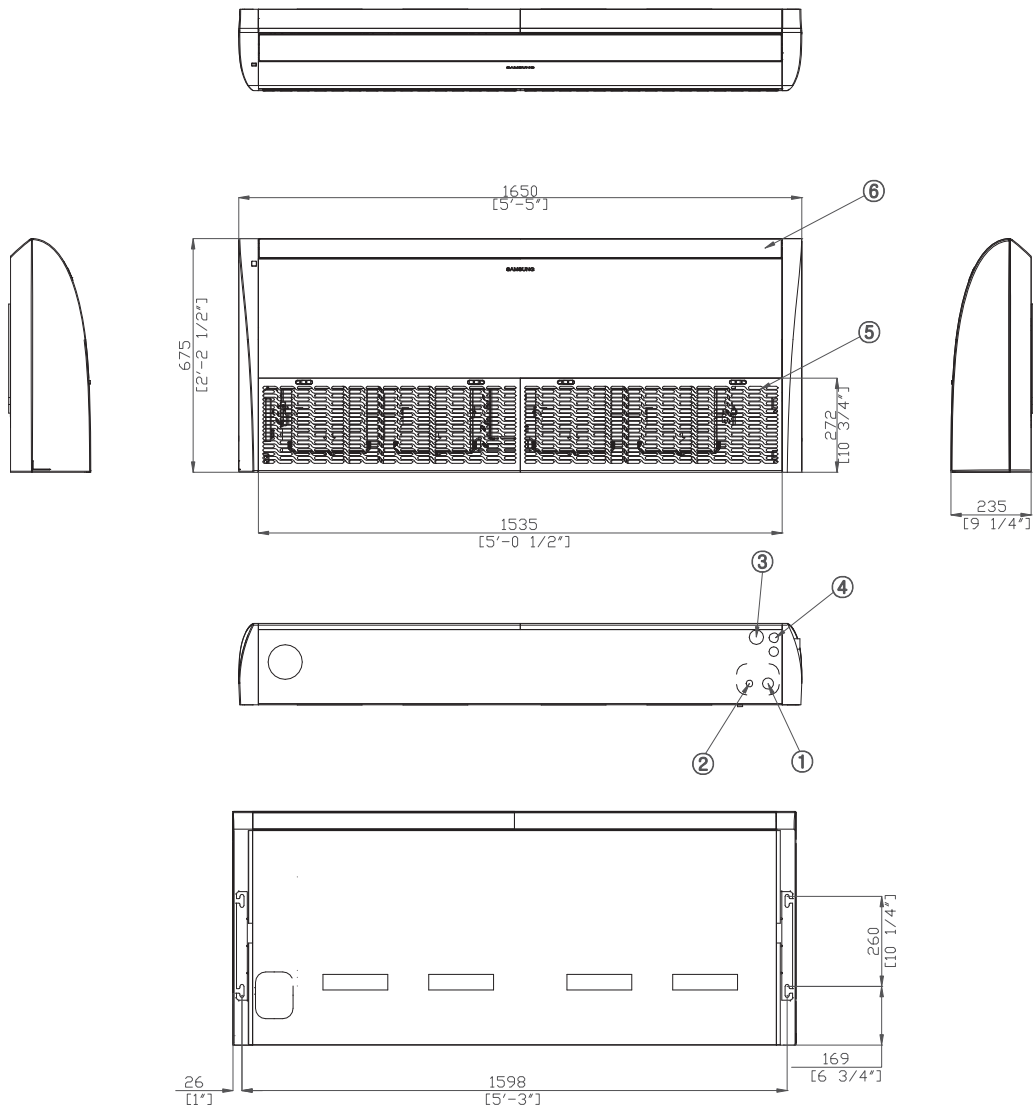


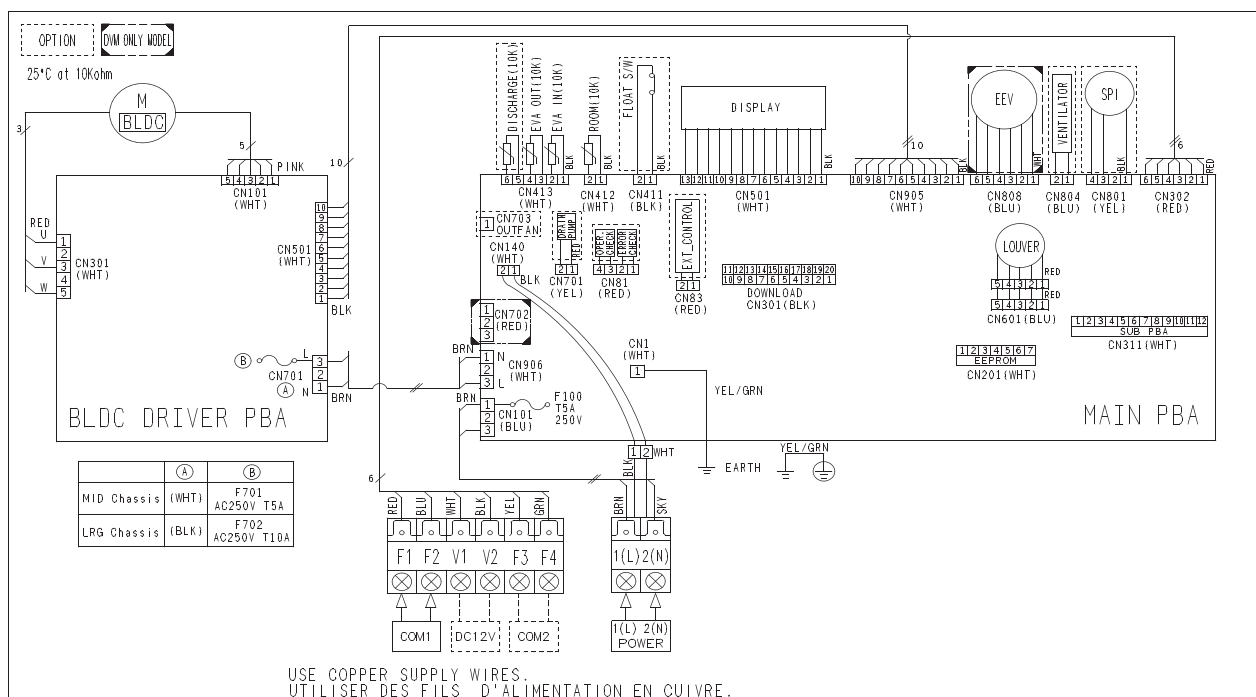
Table of descriptions

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

5 Electrical wiring diagram

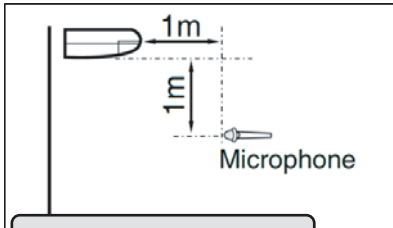
Ceiling

AC100JNCDEH/EU, AC120JNCDEH/EU, AC140JNCDEH/EU



6 Sound pressure level

Ceiling



Unit: dB(A)

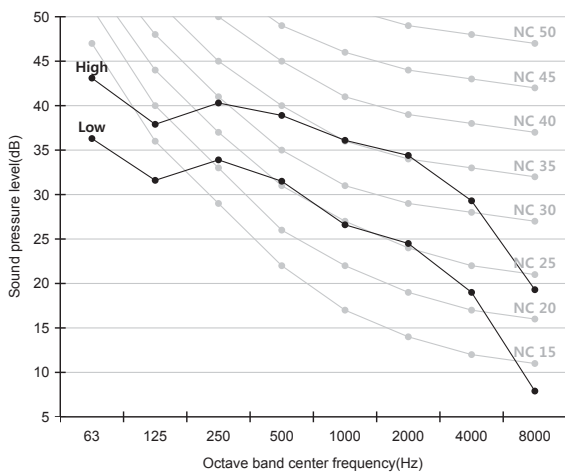
Model	High	Low
AC100JNCDEH/EU (ODU : AC100JXADEH/EU)	42.0	34.0
AC100JNCDEH/EU (ODU : AC100JXADGH/EU)	42.0	34.0
AC120JNCDEH/EU (ODU : AC120JXADEH/EU)	44.0	37.0
AC120JNCDEH/EU (ODU : AC120JXADGH/EU)	44.0	37.0

Note

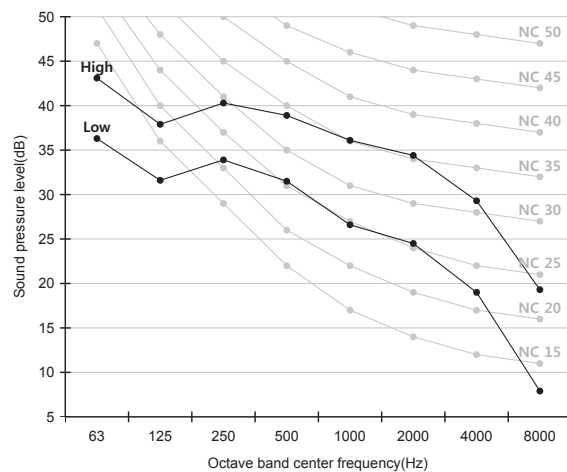
- These operation values were obtained in an anechoic room.
- Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.

NC curve

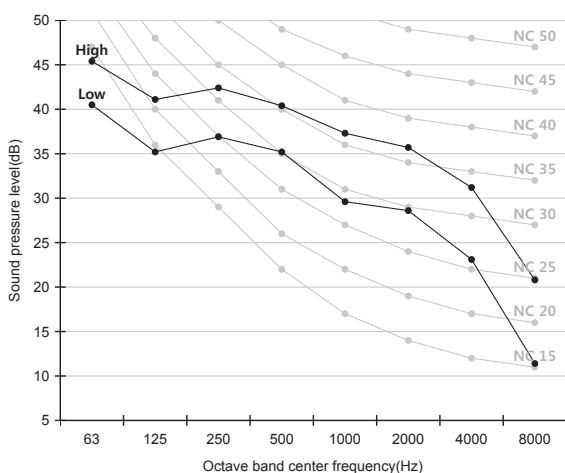
1) AC100JNCDEH/EU (ODU : AC100JXADEH/EU)



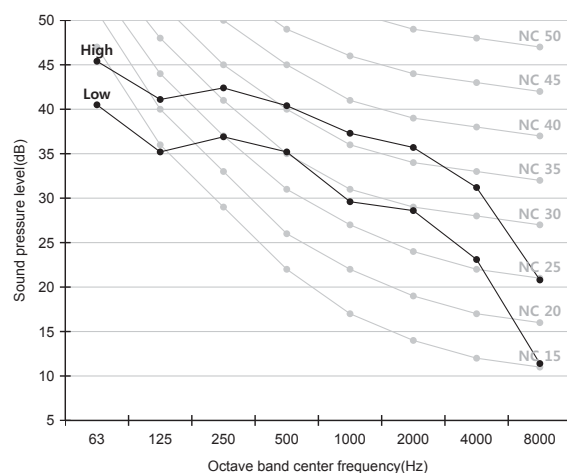
2) AC100JNCDEH/EU (ODU : AC100JXADGH/EU)



3) AC120JNCDEH/EU (ODU : AC120JXADEH/EU)

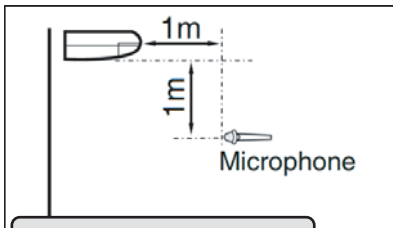


4) AC120JNCDEH/EU (ODU : AC120JXADGH/EU)



6 Sound pressure level

Ceiling



Unit: dB(A)

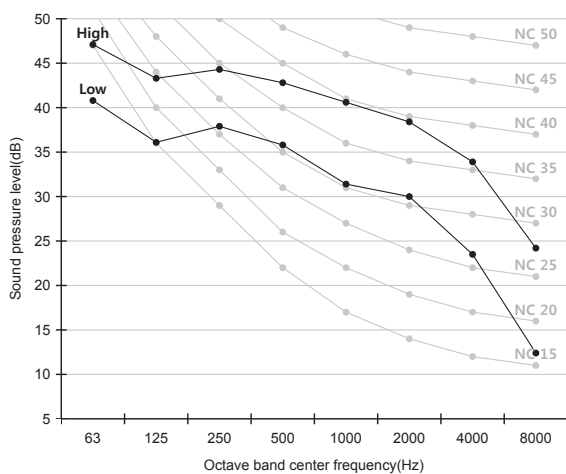
Model	High	Low
AC140JNCDEH/EU (ODU : AC140JXADEH/EU)	46.0	38.0
AC140JNCDEH/EU (ODU : AC140JXADGH/EU)	46.0	38.0

Note

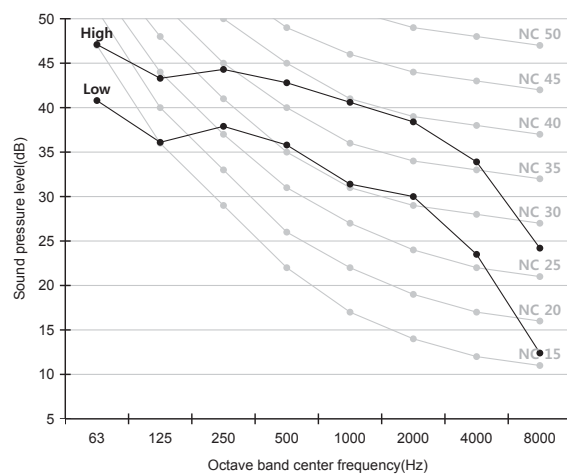
- These operation values were obtained in an anechoic room.
- Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.

NC curve

1) AC140JNCDEH/EU (ODU : AC140JXADEH/EU)



2) AC140JNCDEH/EU (ODU : AC140JXADGH/EU)



7 Sound power level

Ceiling

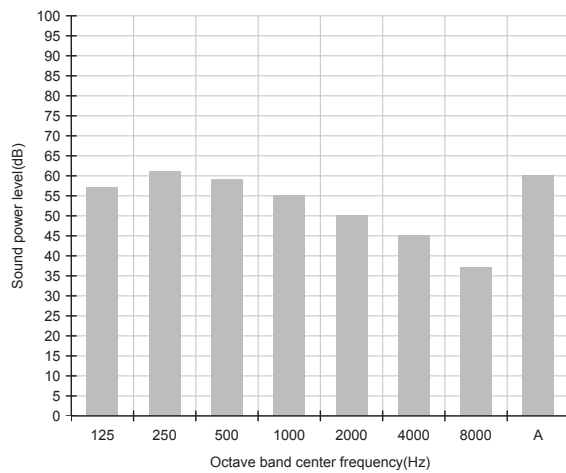
Note

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

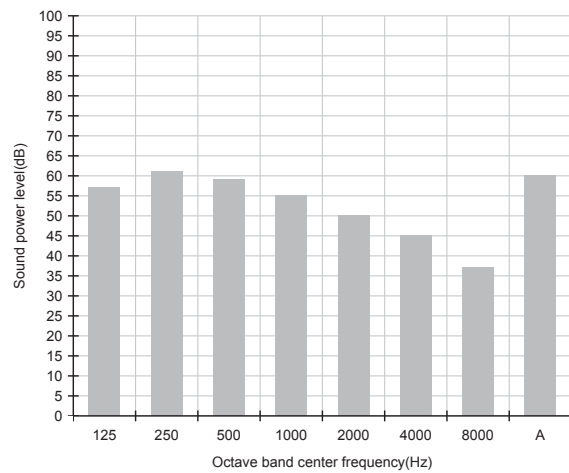
Unit: dB(A)

Model	Power
AC100JNCDEH/EU (ODU : AC100JXADEH/EU)	60.0
AC100JNCDEH/EU (ODU : AC100JXADGH/EU)	60.0
AC120JNCDEH/EU (ODU : AC120JXADEH/EU)	62.0
AC120JNCDEH/EU (ODU : AC120JXADGH/EU)	62.0

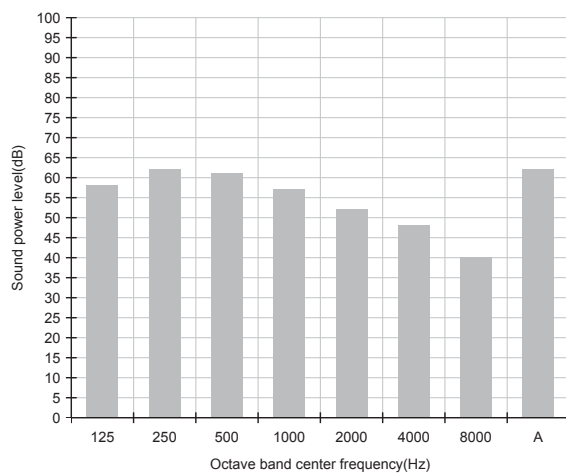
1) AC100JNCDEH/EU (ODU : AC100JXADEH/EU)



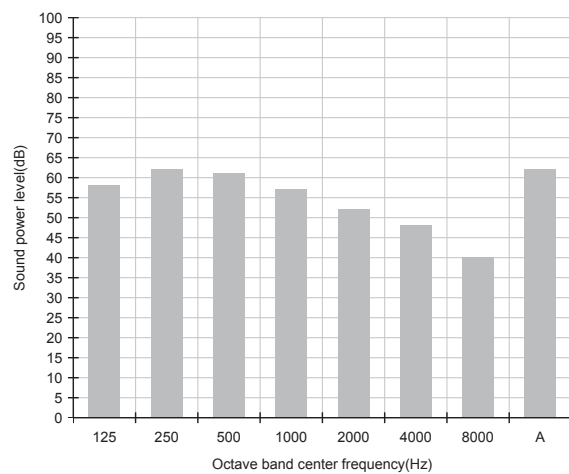
2) AC100JNCDEH/EU (ODU : AC100JXADGH/EU)



3) AC120JNCDEH/EU (ODU : AC120JXADEH/EU)



4) AC120JNCDEH/EU (ODU : AC120JXADGH/EU)



7 Sound power level

Ceiling

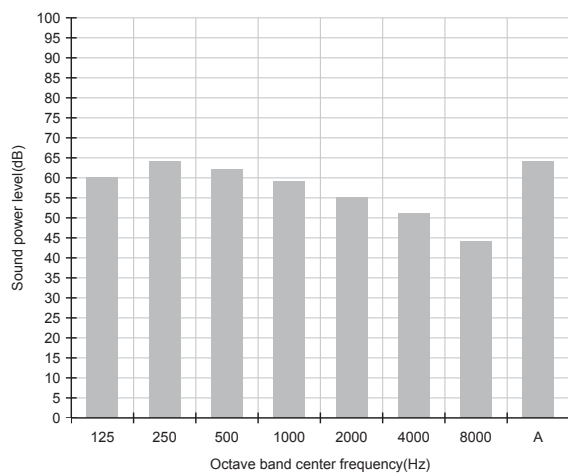
Note

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

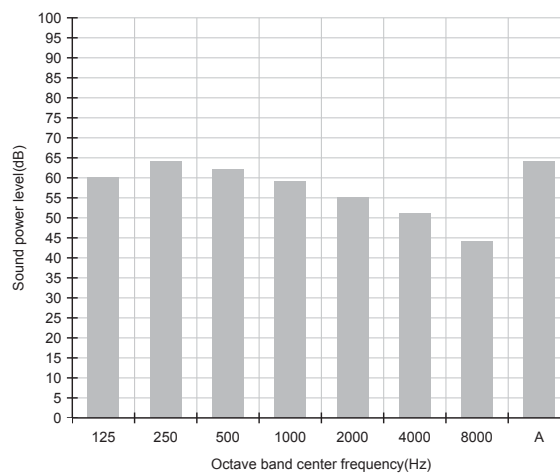
Unit: dB(A)

Model	Power
AC140JNCDEH/EU (ODU : AC140JXADEH/EU)	64.0
AC140JNCDEH/EU (ODU : AC140JXADGH/EU)	64.0

1) AC140JNCDEH/EU (ODU : AC140JXADEH/EU)



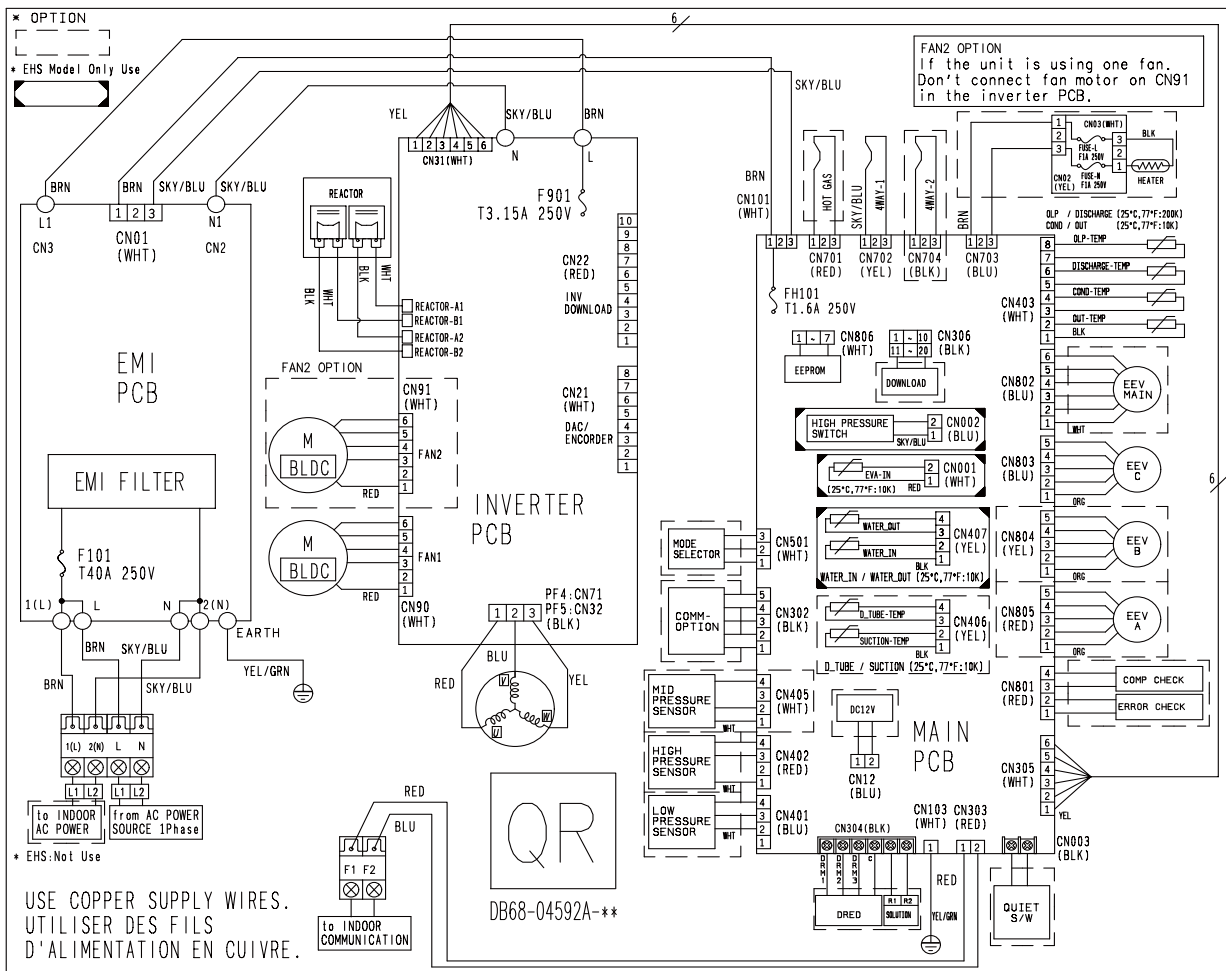
2) AC140JNCDEH/EU (ODU : AC140JXADGH/EU)



8) Electrical wiring diagram

Outdoor

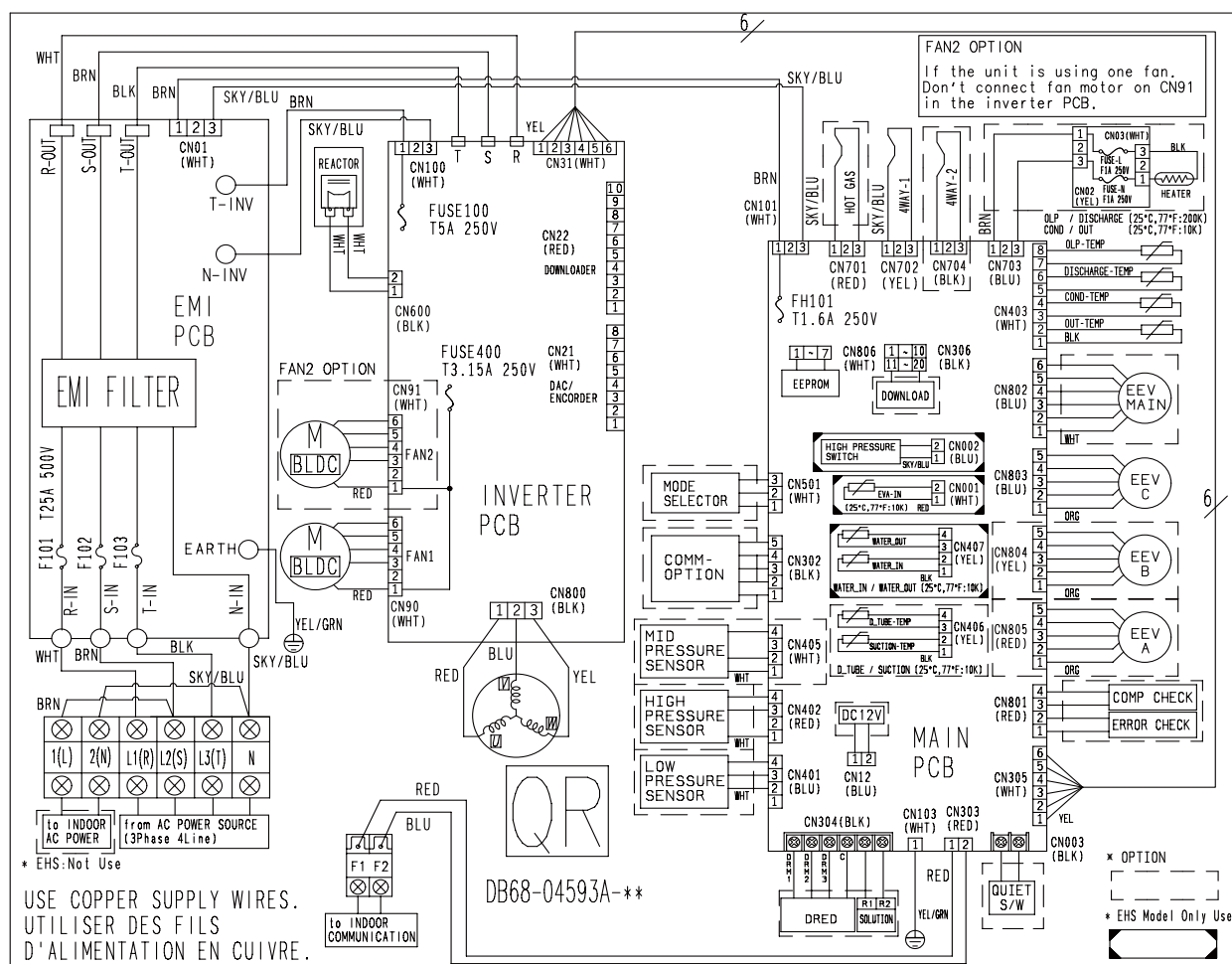
AC100JXADEH/EU, AC120JXADEH/EU, AC140JXADEH/EU



8 Electrical wiring diagram

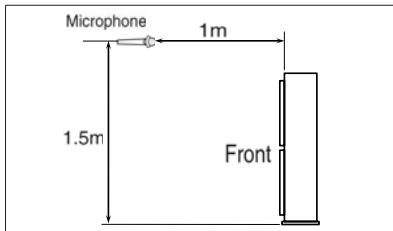
Outdoor

AC100JXADGH/EU, AC120JXADGH/EU, AC140JXADGH/EU



9 Sound pressure level

Outdoor



Unit: dB(A)

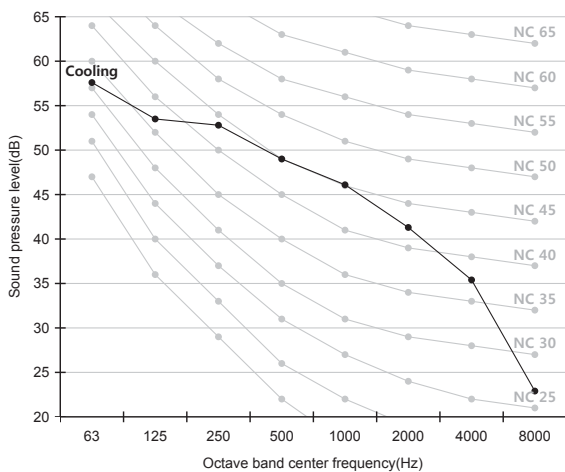
Model	Cooling	Heating
AC100JXADEH/EU (IDU : AC100JNCDEH/EU)	52.0	54.0
AC100JXADGH/EU (IDU : AC100JNCDEH/EU)	52.0	54.0
AC120JXADEH/EU (IDU : AC120JNCDEH/EU)	54.0	56.0
AC120JXADGH/EU (IDU : AC120JNCDEH/EU)	54.0	56.0

Note

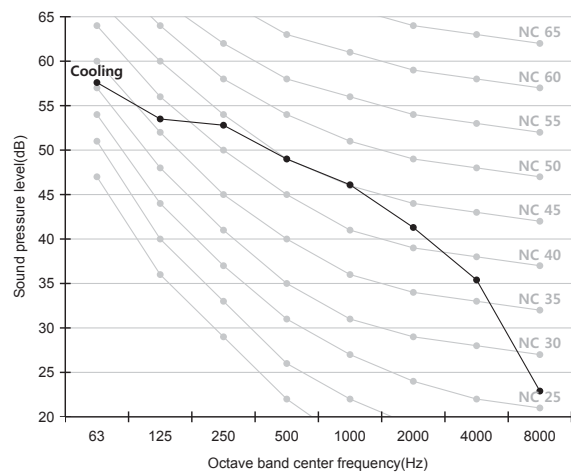
- These operation values were obtained in an anechoic room.
- Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.

NC curve

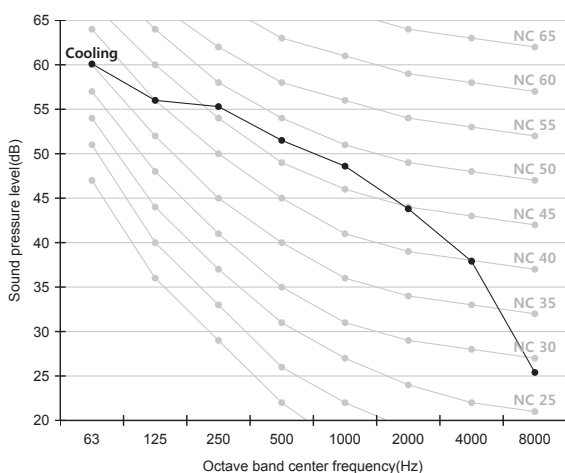
1) AC100JXADEH/EU (IDU : AC100JNCDEH/EU)



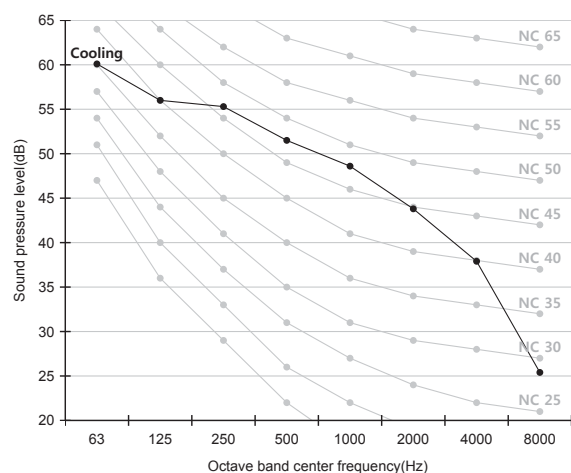
2) AC100JXADGH/EU (IDU : AC100JNCDEH/EU)



3) AC120JXADEH/EU (IDU : AC120JNCDEH/EU)

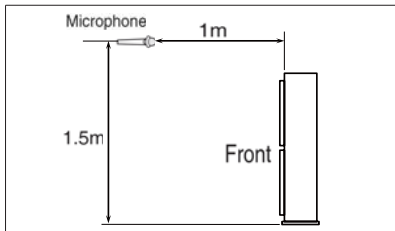


4) AC120JXADGH/EU (IDU : AC120JNCDEH/EU)



9 Sound pressure level

Outdoor



Unit: dB(A)

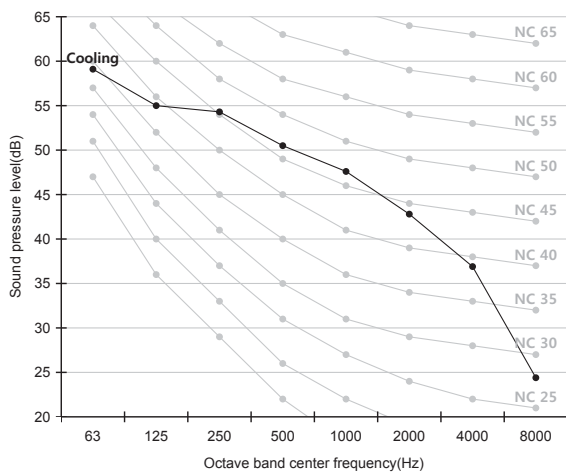
Model	Cooling	Heating
AC140JXADEH/EU (IDU : AC140JNCDEH/EU)	53.0	54.0
AC140JXADGH/EU (IDU : AC140JNCDEH/EU)	53.0	54.0

Note

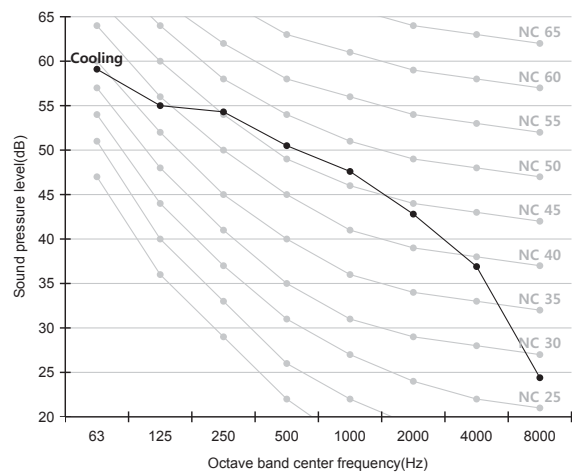
- These operation values were obtained in an anechoic room.
- Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.

NC curve

1) AC140JXADEH/EU (IDU : AC140JNCDEH/EU)



2) AC140JXADGH/EU (IDU : AC140JNCDEH/EU)



10 Sound power level

Outdoor

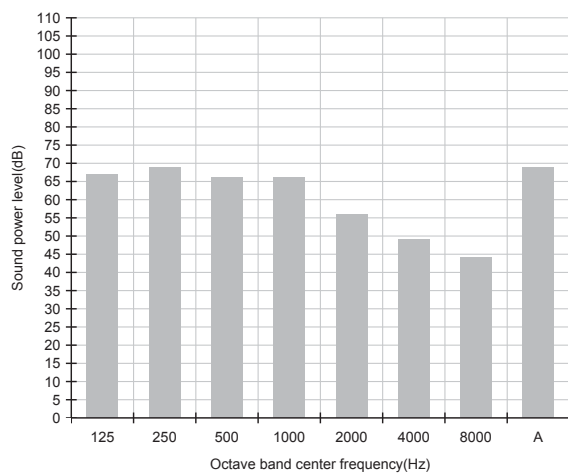
Note

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

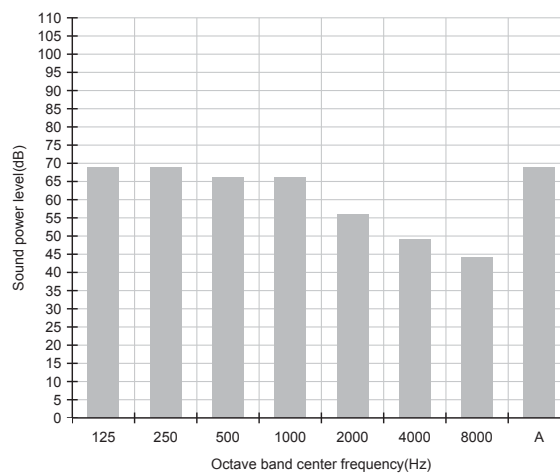
Unit: dB(A)

Model	Power
AC100JXADEH/EU (IDU : AC100JNCDEH/EU)	69.0
AC100JXADGH/EU (IDU : AC100JNCDEH/EU)	69.0
AC120JXADEH/EU (IDU : AC120JNCDEH/EU)	70.0
AC120JXADGH/EU (IDU : AC120JNCDEH/EU)	70.0

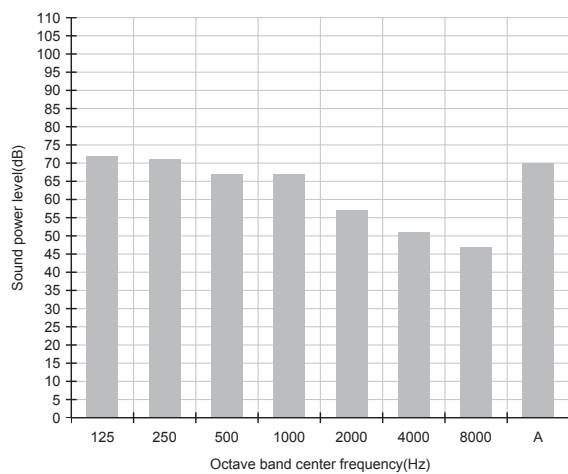
1) AC100JXADEH/EU (IDU : AC100JNCDEH/EU)



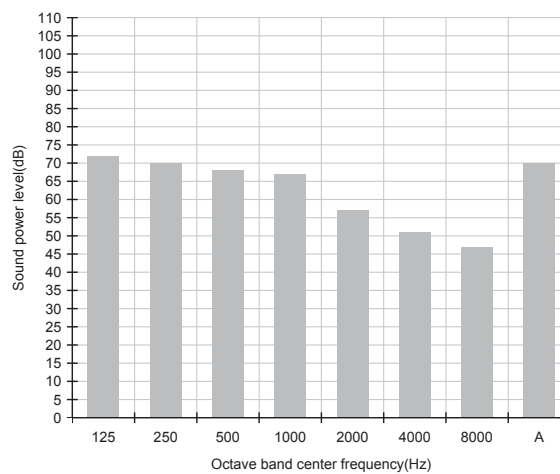
2) AC100JXADGH/EU (IDU : AC100JNCDEH/EU)



3) AC120JXADEH/EU (IDU : AC120JNCDEH/EU)



4) AC120JXADGH/EU (IDU : AC120JNCDEH/EU)



10

Sound power level

Outdoor

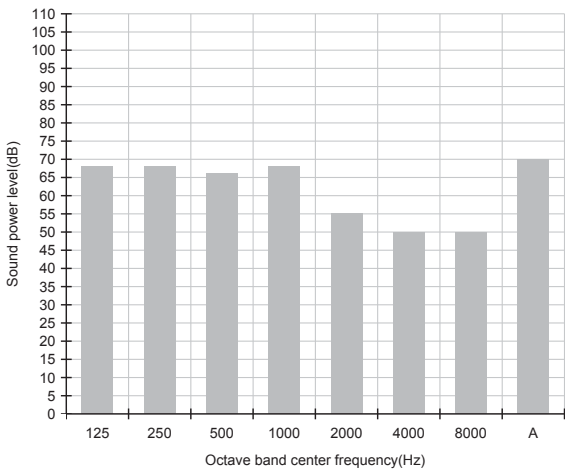
Note

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

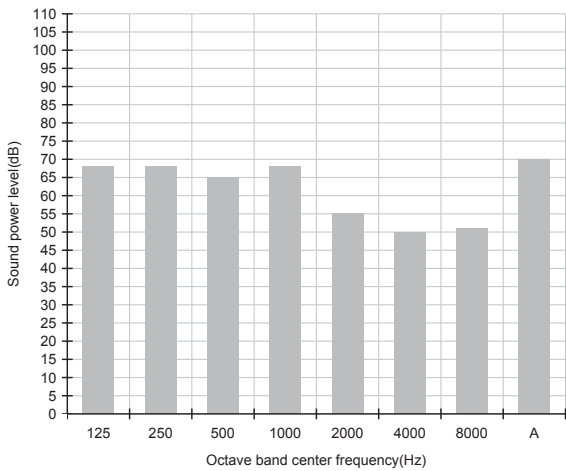
Unit: dB(A)

Model	Power
AC140JXADEH/EU (IDU : AC140JNCDEH/EU)	70.0
AC140JXADGH/EU (IDU : AC140JNCDEH/EU)	70.0

1) AC140JXADEH/EU (IDU : AC140JNCDEH/EU)



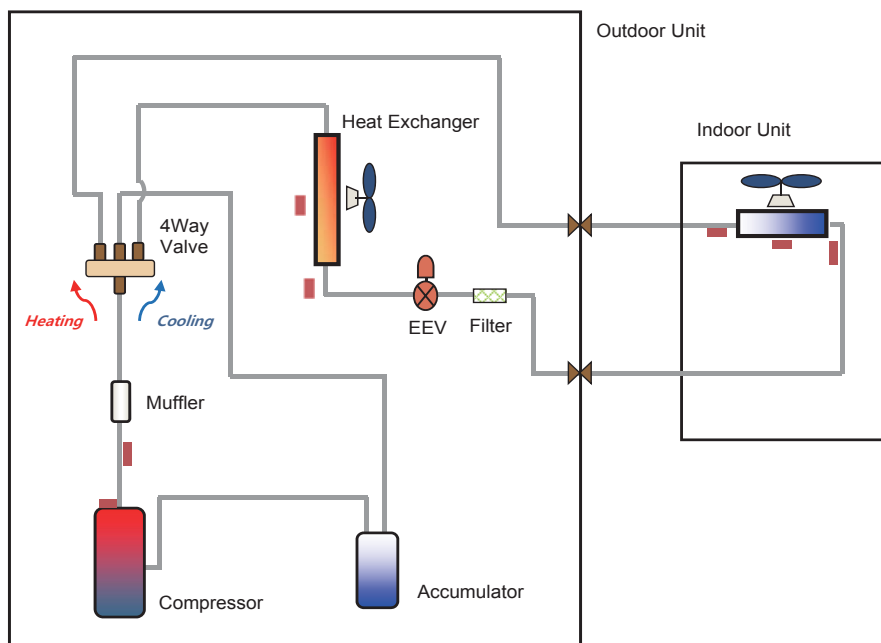
2) AC140JXADGH/EU (IDU : AC140JNCDEH/EU)



11 Cycle diagram

Outdoor

AC100JXADGH/EU, AC100JXADEH/EU, AC120JXADGH/EU, AC120JXADEH/EU, AC140JXADGH/EU, AC140JXADEH/EU



Category		Symbol	Description
Compressor			Rotary Inverter Compressor
Heat Exchanger			Condensing/Evaporating unit(FMC)
Accumulator			Accumulator
Filter			Filter
Valve	Expansion		Electronic Expansion Valve(EEV)
	Reversing		4 Way valve (Reversing valve)
	Service		Service valve
Sensor	Temperature		Pipe/Air Temperature sensor

12 Dimensional drawing

Outdoor

AC100JXADGH/EU, AC100JXADEH/EU, AC120JXADGH/EU, AC120JXADEH/EU

Units : mm / inches

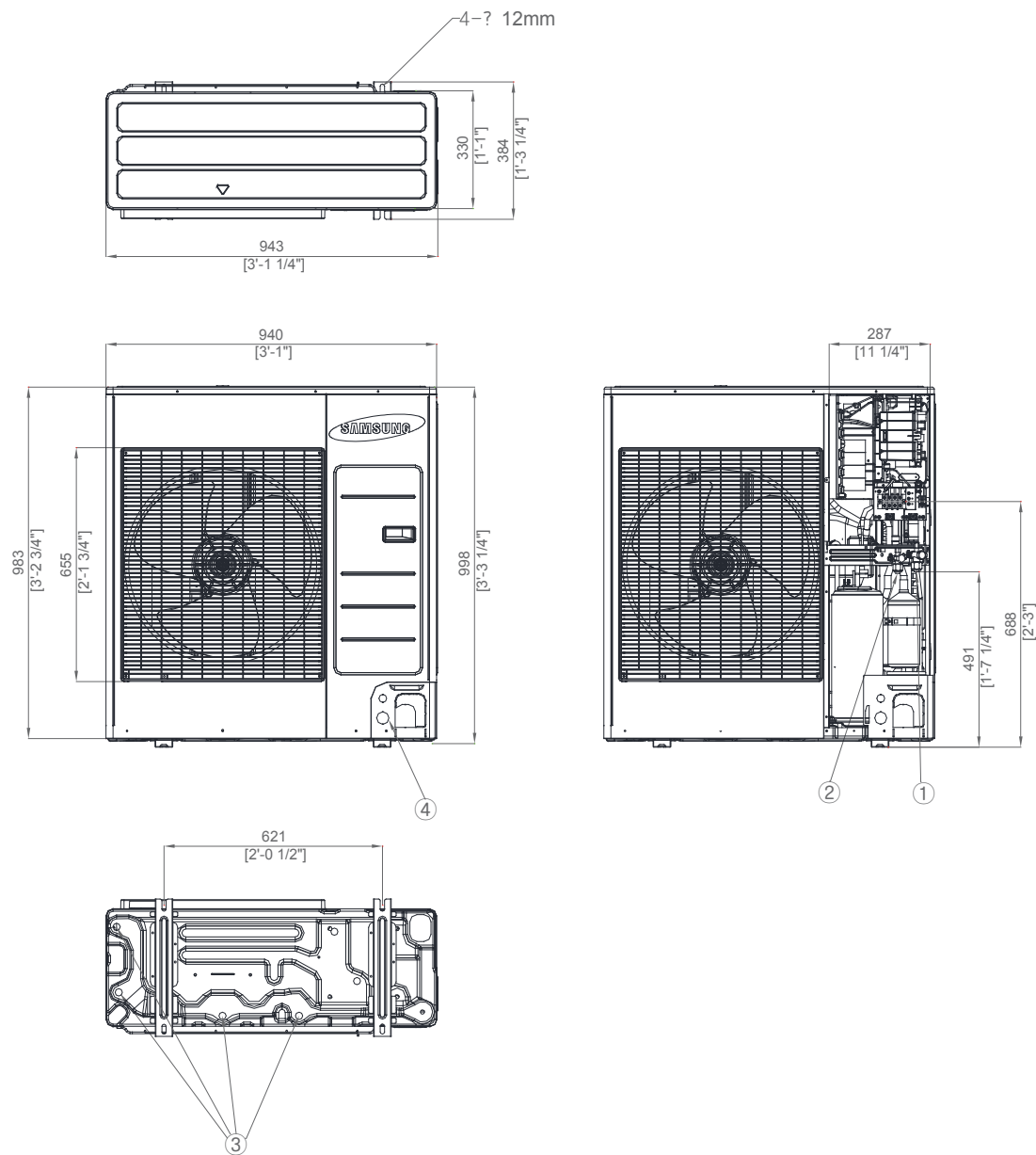


Table of descriptions

1	Refrigerant gas pipe	7	
2	Refrigerant liquid pipe	8	
3	Drain Hole	9	
4	Power & Comm. wiring conduits	10	
5		11	
6		12	

12 Dimensional drawing

Outdoor

AC140JXADGH/EU, AC140JXADEH/EU

Units : mm / inches

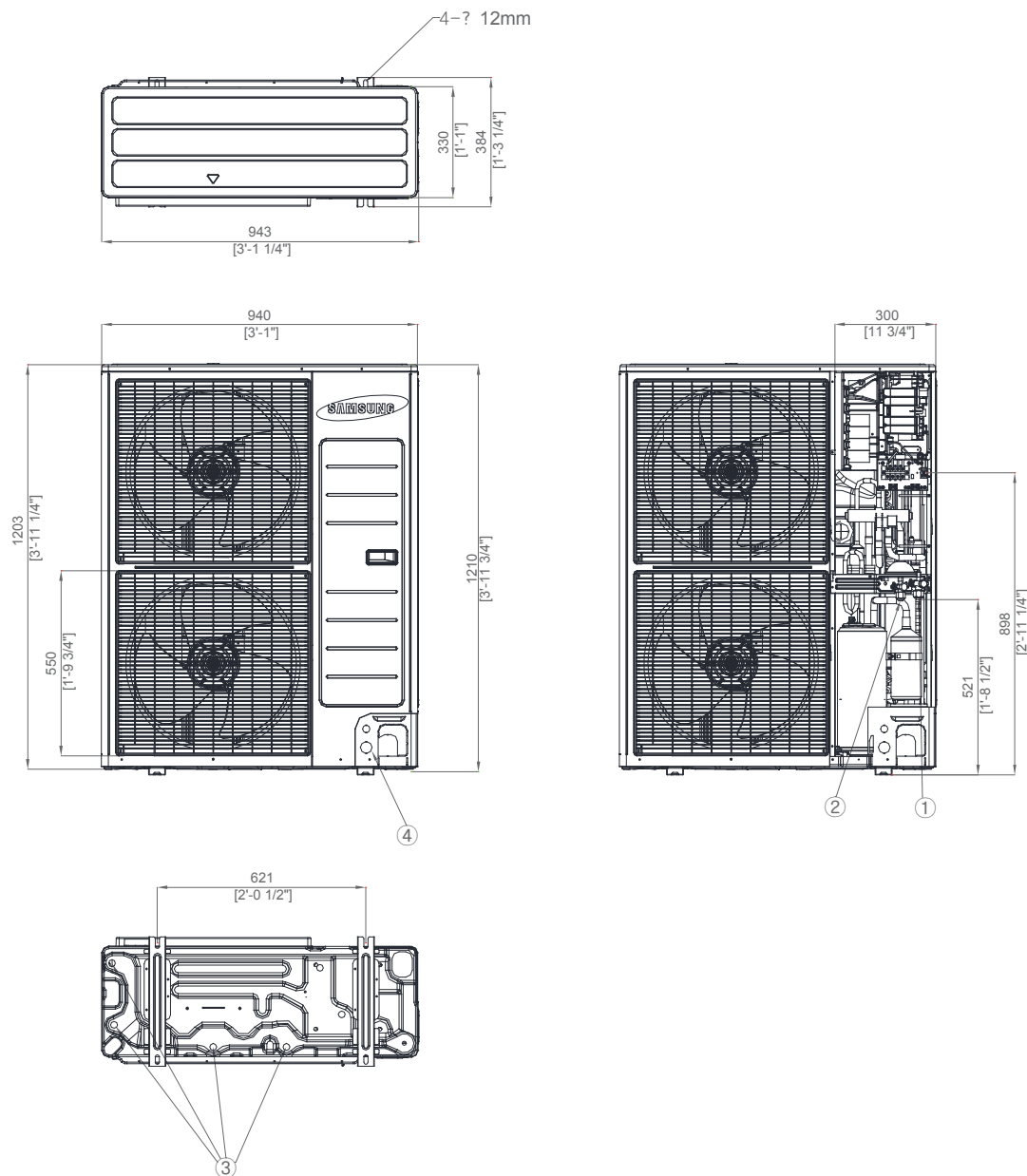


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13 Capacity correction

Outdoor

AC100JNCDEH/EU + AC100JXADGH/EU

Cooling



		Pipe Length (m)									
		5	10	15	20	25	30	35	40	45	50
Level Difference (m)	30	-	-	-	-	-	0.94	0.93	0.92	0.91	0.90
	25	-	-	-	-	0.96	0.94	0.93	0.92	0.91	0.90
	20	-	-	-	0.97	0.96	0.94	0.93	0.92	0.91	0.90
	15	-	-	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
	10	-	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
	5	1.00	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
	0	1.00	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
	-5	1.00	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.90
	-10	-	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.90	0.89
	-15	-	-	0.97	0.96	0.94	0.93	0.92	0.91	0.90	0.89
	-20	-	-	-	0.95	0.94	0.93	0.92	0.91	0.90	0.89
	-25	-	-	-	-	0.94	0.93	0.92	0.90	0.89	0.88
	-30	-	-	-	-	-	0.92	0.91	0.90	0.89	0.88

Heating



		Pipe Length (m)									
		5	10	15	20	25	30	35	40	45	50
Level Difference (m)	30	-	-	-	-	-	0.94	0.93	0.92	0.91	0.90
	25	-	-	-	-	0.96	0.94	0.93	0.92	0.91	0.90
	20	-	-	-	0.97	0.96	0.94	0.93	0.92	0.91	0.90
	15	-	-	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
	10	-	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
	5	1.00	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
	0	1.00	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
	-5	1.00	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
	-10	-	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
	-15	-	-	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
	-20	-	-	-	0.97	0.96	0.94	0.93	0.92	0.91	0.90
	-25	-	-	-	-	0.96	0.94	0.93	0.92	0.91	0.90
	-30	-	-	-	-	-	0.94	0.93	0.92	0.91	0.90

AC100JNCDEH/EU + AC100JXADEH/EU

Cooling



		Pipe Length (m)									
		5	10	15	20	25	30	35	40	45	50
Level Difference (m)	30	-	-	-	-	-	0.94	0.93	0.92	0.91	0.90
	25	-	-	-	-	0.96	0.94	0.93	0.92	0.91	0.90
	20	-	-	-	0.97	0.96	0.94	0.93	0.92	0.91	0.90
	15	-	-	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
	10	-	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
	5	1.00	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
	0	1.00	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
	-5	1.00	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.90
	-10	-	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.90	0.89
	-15	-	-	0.97	0.96	0.94	0.93	0.92	0.91	0.90	0.89
	-20	-	-	-	0.95	0.94	0.93	0.92	0.91	0.90	0.89
	-25	-	-	-	-	0.94	0.93	0.92	0.90	0.89	0.88
	-30	-	-	-	-	-	0.92	0.91	0.90	0.89	0.88

Heating



		Pipe Length (m)									
		5	10	15	20	25	30	35	40	45	50
Level Difference (m)	30	-	-	-	-	-	0.94	0.93	0.92	0.91	0.90
	25	-	-	-	-	0.96	0.94	0.93	0.92	0.91	0.90
	20	-	-	-	0.97	0.96	0.94	0.93	0.92	0.91	0.90
	15	-	-	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
	10	-	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
	5	1.00	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
	0	1.00	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
	-5	1.00	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
	-10	-	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
	-15	-	-	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
	-20	-	-	-	0.97	0.96	0.94	0.93	0.92	0.91	0.90
	-25	-	-	-	-	0.96	0.94	0.93	0.92	0.91	0.90
	-30	-	-	-	-	-	0.94	0.93	0.92	0.91	0.90

13 Capacity correction

Outdoor

AC120JNCDEH/EU + AC120JXADGH/EU

Cooling



		Pipe Length (m)									
		5	10	15	20	25	30	35	40	45	50
Level Difference (m)	30	-	-	-	-	-	0.93	0.91	0.90	0.88	0.87
	25	-	-	-	-	0.94	0.93	0.91	0.90	0.88	0.87
	20	-	-	-	0.96	0.94	0.93	0.91	0.90	0.88	0.87
	15	-	-	0.97	0.96	0.94	0.93	0.91	0.90	0.88	0.87
	10	-	0.99	0.97	0.96	0.94	0.93	0.91	0.90	0.88	0.87
	5	1.00	0.99	0.97	0.96	0.94	0.93	0.91	0.90	0.88	0.87
	0	1.00	0.99	0.97	0.96	0.94	0.93	0.91	0.90	0.88	0.87
	-5	1.00	0.98	0.97	0.95	0.94	0.92	0.91	0.89	0.88	0.87
	-10	-	0.97	0.96	0.95	0.93	0.92	0.90	0.89	0.88	0.86
	-15	-	-	0.96	0.94	0.93	0.91	0.90	0.89	0.87	0.86
	-20	-	-	-	0.94	0.92	0.91	0.89	0.88	0.87	0.86
	-25	-	-	-	-	0.92	0.90	0.89	0.88	0.86	0.85
	-30	-	-	-	-	-	0.90	0.89	0.87	0.86	0.85

Heating



		Pipe Length (m)									
		5	10	15	20	25	30	35	40	45	50
Level Difference (m)	30	-	-	-	-	-	0.93	0.91	0.90	0.88	0.87
	25	-	-	-	-	0.94	0.93	0.91	0.90	0.88	0.87
	20	-	-	-	0.96	0.94	0.93	0.91	0.90	0.88	0.87
	15	-	-	0.97	0.96	0.94	0.93	0.91	0.90	0.88	0.87
	10	-	0.99	0.97	0.96	0.94	0.93	0.91	0.90	0.88	0.87
	5	1.00	0.99	0.97	0.96	0.94	0.93	0.91	0.90	0.88	0.87
	0	1.00	0.99	0.97	0.96	0.94	0.93	0.91	0.90	0.88	0.87
	-5	1.00	0.99	0.97	0.96	0.94	0.93	0.91	0.90	0.88	0.87
	-10	-	0.99	0.97	0.96	0.94	0.93	0.91	0.90	0.88	0.87
	-15	-	-	0.97	0.96	0.94	0.93	0.91	0.90	0.88	0.87
	-20	-	-	-	0.96	0.94	0.93	0.91	0.90	0.88	0.87
	-25	-	-	-	-	0.94	0.93	0.91	0.90	0.88	0.87
	-30	-	-	-	-	-	0.93	0.91	0.90	0.88	0.87

AC120JNCDEH/EU + AC120JXADEH/EU

Cooling



		Pipe Length (m)									
		5	10	15	20	25	30	35	40	45	50
Level Difference (m)	30	-	-	-	-	-	0.93	0.91	0.90	0.88	0.87
	25	-	-	-	-	0.94	0.93	0.91	0.90	0.88	0.87
	20	-	-	-	0.96	0.94	0.93	0.91	0.90	0.88	0.87
	15	-	-	0.97	0.96	0.94	0.93	0.91	0.90	0.88	0.87
	10	-	0.99	0.97	0.96	0.94	0.93	0.91	0.90	0.88	0.87
	5	1.00	0.99	0.97	0.96	0.94	0.93	0.91	0.90	0.88	0.87
	0	1.00	0.99	0.97	0.96	0.94	0.93	0.91	0.90	0.88	0.87
	-5	1.00	0.98	0.97	0.95	0.94	0.92	0.91	0.89	0.88	0.87
	-10	-	0.97	0.96	0.95	0.93	0.92	0.90	0.89	0.88	0.86
	-15	-	-	0.96	0.94	0.93	0.91	0.90	0.89	0.87	0.86
	-20	-	-	-	0.94	0.92	0.91	0.89	0.88	0.87	0.86
	-25	-	-	-	-	0.92	0.90	0.89	0.88	0.86	0.85
	-30	-	-	-	-	-	0.90	0.89	0.87	0.86	0.85

Heating



		Pipe Length (m)									
		5	10	15	20	25	30	35	40	45	50
Level Difference (m)	30	-	-	-	-	-	0.93	0.91	0.90	0.88	0.87
	25	-	-	-	-	0.94	0.93	0.91	0.90	0.88	0.87
	20	-	-	-	0.96	0.94	0.93	0.91	0.90	0.88	0.87
	15	-	-	0.97	0.96	0.94	0.93	0.91	0.90	0.88	0.87
	10	-	0.99	0.97	0.96	0.94	0.93	0.91	0.90	0.88	0.87
	5	1.00	0.99	0.97	0.96	0.94	0.93	0.91	0.90	0.88	0.87
	0	1.00	0.99	0.97	0.96	0.94	0.93	0.91	0.90	0.88	0.87
	-5	1.00	0.99	0.97	0.96	0.94	0.93	0.91	0.90	0.88	0.87
	-10	-	0.99	0.97	0.96	0.94	0.93	0.91	0.90	0.88	0.87
	-15	-	-	0.97	0.96	0.94	0.93	0.91	0.90	0.88	0.87
	-20	-	-	-	0.96	0.94	0.93	0.91	0.90	0.88	0.87
	-25	-	-	-	-	0.94	0.93	0.91	0.90	0.88	0.87
	-30	-	-	-	-	-	0.93	0.91	0.90	0.88	0.87

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